PROJECT REPORT

ON

Texas Tax Maintenance

FOR

Axis Technical (India) Pvt. Ltd.

BY

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1.1 Company Profile.

• About Axis.

Axis Technical India Pvt. Ltd. is an emerging IT consulting company providing end to end corporate services and solutions. Our primary focus is to provide affordable software solutions for our clientele with an edge of technological advancement and change driven ideology. Axis has consulting practice and service oriented delivery with experienced IT professionals in Software Engineering, Business process transformation, software quality assurance, Off-the-shelf technology solutions on a case by case basis to satisfy specific requirements of our clients. We leverage our proven expertise in developing technology to drive business efficiency and productivity to satisfy customers increasingly demanding requirement to improve operational efficiency, higher employee productivity, faster go-to-market, and maximized customer satisfaction.

Axis's portfolio of engagements and successes gauges footprints globally in Europe, USA and Asia. Axis deploys a global delivery model for Enterprise Solutions, Client Relationship

Management, Business Intelligence, Business Process Operations & Quality Management, Product Lifecycle Management, and Infrastructure Management Services by Facilitating skilled technical resources, technical consulting and project management for our clients. Axis is determined to emerge as a leader in niche areas like Mobile computing, Embedded Engineering and Web Based Services that drive business efficiency. We vouch for our strict adherence to quality standards to create and deliver value through technology.

The Company understands that in order to realize this vision it needs to achieve industry leading benchmarks in corporate governance, delivery excellence and employee satisfaction.

Visit the company website at www.axistecnical.com

• Services.

Axis specializes in Microsoft and JAVA technologies, in addition to QA, Script and Design personnel. We can allocate software Engineers, Team Managers, QA personnel and Graphic Designers qualified in various fields from within our ranks, assisting you in reaching your targets and goals through the building of winning team overseas. Axis has the ability to put any work frame at your disposal, from a single programmer to a team of several dozens of employees, all within a short time with efficient and quick allocation process. Axis trains its employees to work above professional standards for development, provides management tools for projects, development methodologies and work environments, so projects are completed in a timely and efficient manner.

Our main services are:

- IT Solutions
- Software Development
- Managed Services
- Quality Testing
- Professional Services
- Web Services
- Knowledge Services

• Products.

Axis products cover the entire spectrum of activities involved in taking a product from vision to shipment. Leveraging our experience, we help our customers convert their product vision into a tangible design, scalable architecture, and finally a successful product.

Having partnered with several companies, both large and small, Axis is ideally positioned as a partner of choice to manage the three variables of product development - time, resources, and scope effectively to ensure a successful product release. We have evolved processes, developed components, methodologies and frameworks to ensure Predictable Quality on a Predictable Ship Date.

As part of our product development services, we deliver full:

- Architecture Design and Development
- Product Reengineering
- Mobile Enablement
- SaaS Enablement
- Product Deployment Support

1.2 Existing system and need for system.

• Existing system.

A client-server based application called DTS2.0 is used by Client's customers to generate tax and title reports. Backend of this application is mainframe.

Tax and title reports are retrieved using various services available in DTS2.0. This application is also referred to as 'Services Application' within Client.

Some of the services (like Tax, Plat) are maintained by servicing branches of Client called 'Business Units', using maintenance application.

Existing Model:



Who uses client's product and why?

Anyone may do a tax search. Documents concerning conveyances of land are a matter of public record. These documents are maintained in hard copy paper format or sometimes scanned into image files. The information within the documents is typically not available as data format as the records are descriptions of legal events which contain terms, conditions, and language in excess of data.

It is often the case that people choose to contact a title company or attorney to conduct an exhaustive title search. These title companies use Client's product to generate title and tax reports.

Client maintains separate title plants for each county in its geographic coverage. title Plants are a collection of title and real property records from county governments which are used by abstractors, title insurers, title insurance agents, and others to determine ownership of and interests in real property in connection with underwriting and issuance of title insurance policies and for other purposes.

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PF12	EXIT					

• Need of the system

The existing system, DTS2.0 is mainframe based which is being migrated to SOA environment with Search Engine as its backend. The new migrated application is referred as DTS3.0.

The objective is to move all backend application processing away from the mainframe and into a distributed multi-tiered environment.

- It will eliminate high maintenance costs of legacy systems
- It will eliminate renewal of an expensive lease due in 2012
- It will allow for future expansion around infrastructure

To summarize need of the system, we would say;

- Centralized authority and decision making.
- Centralized Database.
- Fast Communication.
- Management of resource.

1.3 Scope of work.

The Texas Tax System customer product provides customers the ability to execute a Property Taxes search. Customers may search property taxes and homeowners' association (HOA) information in a given county in the state of Texas by owner name, property address, Central Appraisal District (CAD) account number, subdivision name and subdivision code. For most customers the end product of the Texas Tax System Property Taxes search is a Tax Certificate. Additionally, in some counties Client provides an HOA Certificate which contains information about whether a property is located in a homeowners' association and the applicable HOA fees. Authorized customers receive an HOA certificate in addition to a Tax Certificate.

1. Brief Explanation of the Texas Tax System Product Used By the Customers

The Texas Tax System customer product provides customers the ability to execute a Property Taxes search. Customers may search property taxes and homeowners' association (HOA) information in a given county in the state of Texas by owner name, property address, Central Appraisal District (CAD) account number, subdivision name and subdivision code. For most customers the end product of the Texas Tax System Property Taxes search is a Tax Certificate. Additionally, in some counties Client provides an HOA Certificate which contains information about whether a property is located in a homeowners' association and the applicable HOA fees. Authorized customers receive an HOA certificate in addition to a Tax Certificate.

2. A Failed Certificate Triggers the Client Branch Workflow

When a customer requests a Tax Certificate on one or more CAD account numbers the system executes a completeness check while retrieving data from the database.

If the completeness check fails the search output is called a tax order request, not a certificate. The search engine places a tax entry and an HOA entry for the order in a list of pending certificates. If HOA was not requested or is not available in the county being searched no HOA entry is placed in the list of pending certificates. The entries in the list of pending certificates indicate whether the tax or HOA is complete or incomplete. A tax order request might have both tax and HOA incomplete, or the taxes may be complete but the HOA incomplete, or vice versa.

3. Workflow for Missing Tax Information

a. Tax Bills

If the tax order request includes errors for missing bills the information is acquired.

b. Tax Suits

Tax suits have to be researched whenever a delinquent tax bill is found.

c. Parcel Maintenance

PARCEL MAINTENANCE is most commonly used to attach freeform comments and standard comments to a CAD

d. Standard Comments

Standard comments are freeform comments associated with a code that is set up by the Client branch.

e. CAD cross references

CADXRef is used to associate one or more CAD account numbers with other CAD account numbers.

f. Marking the Tax Order Complete

After the missing data has been input a Client branch user executes an order preview on the customer order using the Update Certificate service.

4. Workflow for Missing HOA Information

a. Calling and Faxing the Collector

First thing in the morning the HOA department goes through the OPEN HOA ORDERS SUMMARY REPORT and identifies which collectors need to be called/faxed.

b. Inputting HOA Amounts

The HOA department then uses the HOA INPUT HOA ORDER DATA maintenance function to input the amounts received from the collector

c. Coding HOA

Associating an HOA to a CAD account number or an order is called 'coding'

d. Maintaining the CAD Locators

A CAD locator is assigned to each subdivision/HOA combination (a given subdivision can have more than one HOA).

e. Maintaining the Collectors

Some collectors (management companies) are responsible for collecting HOA fees for dozens of subdivisions.

1.4 Operating Environment – Hardware and

Software.

• Server side.

The client company is agreed to install the SQL SERVER – 2008.

The following is the list of minimum hardware and software requirements to install and run SQL Server 2008.

I. Framework.

SQL Server Setup installs the following software components required by the product:

- NET Framework 3.5
- SQL Server Native Client
- SQL Server Setup support files
- II. Software.

SQL Server Setup requires Microsoft Windows Installer 4.5 or a later version, and Microsoft Data Access Components (MDAC) 2.8 SP1 or a later version.

III. Internet Software.

Microsoft Internet Explorer 6 SP1 or a later version is required for all installations of SQL Server 2008. Internet Explorer 6 SP1 or a later version is required for Microsoft Management Console (MMC), SQL Server Management Studio, Business Intelligence Development Studio, the Report Designer component of Reporting Services, and HTML Help.

IV. Display.

SQL Server 2008 graphical tools require VGA or higher resolution: at least 1,024×768 pixel resolution.

V. Processor.

Processor type: Pentium III-compatible processor or faster Processor speed: Minimum: 1.0 GHz, Recommended: 2.0 GHz or faster

VI. Operating system.

Any operating system released after Windows XP Professional SP2.

VII. Memory.

RAM:

Minimum: 512 MB

recommended: 2.048 GB or more

Disk Space Requirements.

Database Engine and data files, Replication,

and Full-Text Search	: 280 MB
Analysis Services and data files	: 90 MB
Reporting Services and Report Manager	: 120 MB
Integration Services	: 120 MB
Client Components	: 850 MB

• Client Side.

Minimum mandatory requirements such as keyboard, mouse, monitor and minimal hard disk (20GB) with the capacity to support Operating System. Minimum memory (1GB). Any operating system. A web-browser. The computers are required to be connected in network.

Printer connected in LAN for getting the document printed.

1.5 Detail description of technologies used.

• The Microsoft .NET Framework.

The .NET Framework is the infrastructure for the Microsoft .NET platform.

The .NET Framework is an environment for building, deploying, and running Web applications and Web Services. Microsoft's first server technology ASP (Active Server Pages), was a powerful and flexible "programming language". But it was too code oriented. It was not an application framework and not an enterprise development tool.

• ASP .NET using C#

ASP.NET is a server side scripting technology that enables scripts (embedded in web pages) to be executed by an Internet server.

- ASP.NET is a Microsoft Technology
- ASP stands for Active Server Pages.
- ASP.NET is a program that runs inside IIS.

- IIS (Internet Information Services) is Microsoft's Internet server.
- IIS comes as a free component with Windows servers.
- IIS is also a part of Windows 2000 and XP Professional.
- An ASP.NET file is just the same as an HTML file.
- An ASP.NET file can contain HTML, XML, and scripts.
- Scripts in an ASP.NET file are executed on the server.
- An ASP.NET file has the file extension ".aspx".

ASP.NET Working

- When a browser requests an HTML file, the server returns the file
- When a browser requests an ASP.NET file, IIS passes the request to the ASP.NET engine on the server
- The ASP.NET engine reads the file, line by line, and executes the scripts in the file
- Finally, the ASP.NET file is returned to the browser as plain HTML

• Java Script.

JavaScript is the most popular scripting language on the internet, and works in all major browsers, such as Internet Explorer, Firefox, Chrome, Opera, and Safari. JavaScript was designed to add interactivity to HTML pages

- JavaScript is a scripting language
- A scripting language is a lightweight programming language
- JavaScript is usually embedded directly into HTML pages
- JavaScript is an interpreted language (means that scripts execute without preliminary compilation)
- Everyone can use JavaScript without purchasing a license

JavaScript working?

 JavaScript gives HTML designers a programming tool -HTML authors are normally not programmers, but JavaScript is a scripting language with a very simple syntax! Almost anyone can put small "snippets" of code into their HTML pages

- JavaScript can react to events A JavaScript can be set to execute when something happens, like when a page has finished loading or when a user clicks on an HTML element
- JavaScript can read and write HTML elements A JavaScript can read and change the content of an HTML element
- JavaScript can be used to validate data A JavaScript can be used to validate form data before it is submitted to a server. This saves the server from extra processing
- JavaScript can be used to detect the visitor's browser A JavaScript can be used to detect the visitor's browser, and depending on the browser - load another page specifically designed for that browser
- JavaScript can be used to create cookies A JavaScript can be used to store and retrieve information on the visitor's computer

2.1 Proposed system.

Client briefly proposed their system with following details to be covered.

- Gives Accounts Payable personnel increased control of invoicing and payment processing and thereby boosting their productivity and eliminating their reliance on computer personnel for these operations.
- Reduce paper documents by providing on-line formats for quickly entering and retrieving information.
- Improves timeliness of information by permitting, posting daily instead of monthly.
- Greater accuracy of information with detailed content, better presentation, fully satisfactory for the coordinator.
- Improved Cost Control
- Faster response and follow up on customers
- More efficient cash collection, say, material reduction in delay in payments by customers.
- Better monitoring and quicker resolution of queries.

- Enables quick response to change in business operations.
- Helps to achieve competitive advantage by improving its business process.
- Improves linkage with remote locations and branches in different counties.
- Provides a unified customer database usable by all applications.
- Improves operations by supporting a variety of tax structures, taxing schemes, multiple counties, multiple period accounting.
- Improves information access and management throughout the enterprise.

2.2 Objectives of system.

The main objective of Texas Tax Maintenance system is as follows.

• Regulatory Framework

The establishment of re-engineered and automated processes which are essential for the effective implementation of the new Property Rules and Regulations and the approved new property chain strategy.

The establishment of a basis for comprehensive and coherent internal control and accountability framework based on user roles, automated approval procedures and workflow.

• Productivity Improvements.

Realization of efficiency gains in all sectors within the scope of the project through simplification, streamlining and automation, in particular in those areas which are poorly supported by IT systems today.

Reduced manual and paper work throughout the Organization through automated workflow and approval processes.

The provision of a standard tool set which will disseminate up-todate financial information to Program Managers for the purpose of error tracking; thus eliminating the need for parallel, manual or semi manual records to be maintained within each Program.

• IT Improvements.

The retirement of a patchwork of legacy and departmental systems that are complex and expensive to maintain, and the establishment of a standard, unified IT platform for the key administrative and resource management applications.

• Staff Development.

Texas Tax Maintenance system implementations serve as an excellent platform or vehicle for training and professionalization of staff, (as users adapt to best practice based processes), higher data discipline and more value added analytical tasks facilitated.

2.3 User Requirements.

A comprehensive, fully integrated software toolset with following requirements.

• Role-based workspaces.

The access to particular information must be given to a particular user, the information must be presented to each different role of user in its own comfortable format. Each user should have its own individual login, for safe keeping of information.

• Multi-tab UI.

Empower multi-tasking users with the ability to work and process independently in multiple tabs. As a row is selected, the application tab is updated with information about that row making this feature much more useful than using multiple browser tabs.

• In-grid editing.

Ability to edit data directly while in grid view, with automatic saving of the data as the user moves to another row.

• Dynamic column filtering.

Type-ahead wildcard filtering allows users to quickly and easily find information, and it works across multiple columns.

• Easy access to functionality.

User-centered design with features like Quick Launch and Recent Views empower users with fast access to functionality.

• Alerts.

Notifications can be programmed to alert the user whenever a certain condition. These Alerts are then made clearly visible to user as soon as they log in to the application. Isn't that a great feature to help ensure proper control?

• Linked items.

From any record in the application, users can access any other record in the application that is linked to it, as long as their permissions allow for it. Finding related invoices, contacts or any specific shipping receipt is very easy. With TTM, your users are always empowered with a 360 degree view of all the data in the application.

• Dimensional Reporting.

End users easily create customized report formats based on multiple fields and categories in order to extract critical integrated company data. New reports can be added to the TTM in as little as a few hours. Easy access to information is a critical component of a successful implementation

• Compatibility and Sharing.

Export a single file or a collection of files to Excel, CSV, or PDF directly from the application. Exported files can also be attached to any file in the application for easy retrieval and management.

• Email.

With 1 click, open an email window to send information or attached files to HOA collector directly from the TTM. Unique sender email addresses can be configured for each user in the application.

• Keyboard navigation.

On top of being a web-based application, it has to be designed so that it can be fully operated from the keyboard, without using the mouse. Power users can save time and move fast as they perform daily routines.

• Roles.

Users with different profiles can access TTM with roles that are tailored to their work habits and that secure the amount of information they see and change. With a role, you can control which screens are accessible from the menu, which an organization's users can see and they can access it either in edit.

3.1 Object Diagram.


3.2 Class Diagram.



3.3 Use Case Diagram.

• Use Case for Tax Error.



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• Use Case for HOA Error.



• Use Case for Source File.



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• Use Case for Tax Unit



3.4 Activity Diagram.

• Activity for Tax Error.



• Activity for HOA Error.



• Activity for Source File.

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• Activity for Tax Unit.



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3.5 Sequence Diagram.

• Sequence for Tax Bill error.



• Sequence for Tax Suit error.



• Sequence for CAD error.



• Sequence for Tax Unit error.



• Sequence for Order level HOA error.



• Sequence for CAD level HOA error.





• Sequence for Adding Standard Comment

• Sequence for Adding HOA Collector.



• Sequence for adding new subdivision.



• Sequence for Tax Unit.



<u>GUI</u> DB TTM ter to the systen Request to system Display login screen ⊡∢ Enter Id & Password Send Id & password Retrieve Id & Password Receive Id & Password 6 Validate Display Home change county Send county code Initiate County change elect Source file tracking Request to system Display form (Add, update, dele Γ Fill data Submit data Send data Store data Save Send Acknowledgment Display Message Receive Acknowledg ment Enter new through date Send new through date Store data Save Send Acknowledgment Receive Display Message LogOut() Send req to system End session Logged out __<

• Sequence for Source File Tracking

3.6 Entity Relationship Diagram.





3.7 Module Hierarchy Diagram.





3.9 Deployment Diagram.



3.10 Module Specifications.

TTM is used in all the daily operations in an organization. In order to pull data from across the Texas, TTM is made up of many different software modules. Each of the modules in TTM is specialized to handle specific business processes.

There are many modules in TTM. Each TTM module corresponds to a major functional area of an organization. Organizations implement the modules in TTM that are both economically and technically feasible and profitable.

Order Queue:

This option from TTM menu opens the orders from the system.

Tax Bill Maintenance:

This option from the TTM Menu opens the Maintain Tax Bills menu. Enter the CAD account number and optional unit press Enter.

Tax Suit Maintenance:

This option allows the user to maintain tax suits

Enter a CAD Account Number and optional Unit and hit Enter to display the suits for the specified CAD account number.

CAD Account Number:

This option from the TTM Menu opens the Parcel Maintenance menu. This menu allows the user to add, update, delete, and view parcels/owners.

Standard Comment:

This option from the TTM Menu opens the Standard Comment Maintenance menu. This menu allows the user to perform Standard Comment Maintenance

CAD cross Reference:

This option from the TTM Menu opens the CAD Account Number Cross Reference Maintenance menu. This menu allows the user to perform CAD Account Number Cross Reference Maintenance.

Coding Status:

This option from the HOA Coding Menu allows the user to view the coding status.Note that regardless of the current county the system shows the counts for all counties. This is the only subfunction in the HOA Coding maintenance function that retrieves data for all counties instead of the current county.

Code HOA to CAD:

This option from the HOA Coding Menu allows the user to code by account number. Specify a blank CAD account number or a portion of a CAD account number to bring up the first un-coded CAD account number associated with an order in the list of pending certificates. Note that the CAD account number cannot be cancelled from the order.

Code HOA to Order:

This option from the TTM Menu opens the HOA Coding Menu. This menu allows the user to code by account number, customer, and GF number. The user can also view coding status and review accounts and GF numbers coded to research.

Open HOA Summary:

This option from the TTM Menu opens the Maintain HOA Bills menu. Enter the CAD account number and optional unit press Enter.

New Subdivision:

This option from the TTM Menu opens the Maintain new subdivision menu. Enter the CAD account numbers and name of subdivision.

Source File Tracking:

This menu allows the user to track and maintain tapes. From this menu the user can send, browse, add, update, and delete tapes.

Tax Unit maintenance:

This option from the Tax Unit Table Maintenance menu allows the user to browse tax units. Users may specify a complete unit code or a portion of a unit code or ALL to bring up a list of all tax units in unit code sequence.

3.11 User Interface Design.

Login

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Main page.

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CAD Cross References		
Standard Commonte		
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Error Queue.

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OA Maintenance Services	Cust: TR2 Order: ICP7095	0			04-01-13	LOCATE REQUESTS	CANCELLED			NO
Coding Status					20:11					
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Code HOA to CAD Nbrs			ARMSTRONG CAD		10:04					
Open HOA Summary	00056-00300-06100-000000	0	01 - ARMSTRONG CO COLLECTED BY		03-23-13	BILL UNAVAILABLE	CANCELLED			NO
Subdivision / HOA Index			ARMSTRONG CAD		23:02					
HOA Collectors	00056-00300-06100-000000	0	34 - ISD - GROOM COLL BY CARSON CAD		03-05-13	BILL UNAVAILABLE	CANCELLED			NO
New Subdivisions	00056-00300-06100-000000	0	34 - ISD - GROOM COLL BY		03-23-13	BILL UNAVAILABLE	CANCELLED			NO
ata Acquisition Services			CARSON CAD		23:02					
Source File Tracking	00056-00300-06100-000000	0	62 - PANHANDLE GROUND		03-05-13	BILL UNAVAILABLE	CANCELLED			NO
Tax Unit Maintenance			WGID #3		15:54					
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Order Queue.

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iew Affected Orders	RBM	GP-9844-1	0	ABC				03-26-13 09:23 RBM/TM	F CANCELLED			0	
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oding Status	RBM	QAARM002	0	ABC				03-23-13 04:28 RBM/TM	F CANCELLED			0	
ode HOA to Order	RBM	QAARML001	0	ABC				03-23-13 01:56 RBM/TM	F CANCELLED			0	
ode HOA to CAD Nbrs	RBM	TEST-ICP9842	0	ABC				03-24-13 12:35 RBM/JD	S CANCELLED			0	
pen HOA Summary	TR2	ICP7095	0		DLT			04-01-13 20:11 TR2/DL1	CANCELLED			0	
ubdivision / HOA Index	TR2	OVERRIDE	0					03-04-13 10:04 TR2/DM	M CANCELLED			0	-
OA Collectors	TR3	OA OTP TAX1	0					03-04-13 17-19 TR3/DI T	RELEASED		03-13-13 20:12	0	
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a Acquisition Services	TR3	QA_QTP_TAX1_1	0					03-23-13 23:02 TR3/DL1	CANCELLED			0	
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Tax Bill Maintenance

ome Texas Tax															
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Tax Suit Maintenance

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CAD Account Number

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Coding Status

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CAD Cross References	HAYS	0	1		
Standard Comments	WALLER	1	0		
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Open HOA Summary					
Subdivision / HOA Index					
HOA Collectors					
New Subdivisions					
ata Acquisition Services					
Source File Tracking					

Table 1: County Table			
Fields	Data Type	Size	Constraints
C_ROLL_YR	int	10	Not Null
C_COUNTY_CD	int	3	Primary Key
C_STATE_CD	char	2	Not Null
C_PROP_CHAR_AVAIL	Varchar	2	Not Null
C_DISABLE_ACCESS	Varchar	2	Not Null
C_CAD_LOC_LEN	int	2	Not Null
C_HOA_AVAIL	Varchar	2	Not Null
C_SERV_BRANCH_ID	Varchar	3	Not Null
C_AUDIT_DT	Date		Not Null
C_AUDIT_USERID	Varchar	4	Not Null
C_SUBDIV_LST_AVAIL	Varchar	2	Not Null
C_SUBID_SRCH_AVAIL	Varchar	2	Not Null

3.12 Table specifications.

Table 2: Customer			
Fields	Data Type	Size	Constraints
CU_CUSTOMER_ID	Varchar	3	Primary Key
CU_CUSTOMER_NM	Varchar	30	Not Null
CU_CUST_LN1_ADR	Varchar	50	Not Null
CU_CUST_LN2_ADR	Varchar	50	Not Null
CU_CUST_LN3_ADR	Varchar	50	Not Null
CU_SERV_BRANCH_ID	Varchar	3	Foreign Key
CU_PRINT_CERT	Varchar	2	Not Null
CU_AUTO_PRINT_HOA	Varchar	2	Not Null
CU_DISCOUNT_RATE	int	3	Not Null
CU_PRINT_FEE	Varchar	2	Not Null
CU_APPLY_SALES_TAX	Varchar	2	Not Null
CU_TAX_ACCESS	Varchar	2	Not Null
CU_PROPERTY_ACCESS	Varchar	2	Not Null
CU_AUDIT_DT	Date		Not Null
CU_AUDIT_USERID	Varchar	3	Foreign Key
CU_HOA_COLL_ACCESS	Varchar	2	Not Null

CU_INVSTG_SRCH_TYP	Varchar	2	Not Null
CU_SHOW_SUBTYP_IND	Varchar	2	Not Null

Table 3: Customer County			
Fields	Data Type	Size	Constraints
CC_CUSTOMER_ID	Varchar	3	Foreign Key
CC_COUNTY_CD	Varchar	3	Foreign Key
CC_FEE_MATRIX_CD	Varchar	3	Primary Key

Table 4: Source File			
Fields	Data Type	Size	Constraints
S_FORMAT_CD	Varchar	3	Primary Key
S_CONTENT_CD	Varchar	2	Not Null
S_TAPE_NM	Varchar	30	Not Null
S_FREQUENCY_CD	Varchar	12	Not Null
S_SEND_DT	Date		Not Null
S_COPY_DT	Date		Not Null
S_CONVERT_DT	Date		Not Null
S_UPDATE_DT	Date		Not Null
S_PROCESSED_QTY	Int	10	Not Null
S_UNIT_COST_AMT	int	10	Not Null
S_THROUGH_DT	Date		Not Null
S_AUDIT_DT	Date		Not Null
S_AUDIT_USERID	varchar	3	Foreign Key

Table 5: Tax Unit			
Fields	Data Type	Size	Constraints
U_COUNTY_CD	Varchar	3	Foreign Key
U_FORMAT_CD	Varchar	3	Not Null
U_UNIT_CD	Varchar	3	Primary Key
U_UNIT_NM	Varchar	30	Not Null
U_UNIT_SEQ_NBR	int	3	Not Null
U_CAD_CD	Varchar	3	Not Null

Fields	Data Type	Size	Constraints
U_UNIT_LN1_ADR	Varchar	30	Not Null
U_UNIT_LN2_ADR	Varchar	30	
U_UNIT_LN3_ADR	Varchar	30	
U_TAX_ASSESSORS_NM	Varchar	30	Not Null
U_UNIT_PHONE_NBR	int	10	Not Null
U_TAX_RATE_PCT	int	4	Not Null
U_TAX_RATE_YR	int	4	Not Null
U_ATTORNEY_FEE_PCT	int	4	Not Null
U_AUTOMATED_FLG	Varchar	3	Not Null
U_CALC_ATTY_CURRYR	Varchar	3	Not Null
U_APPLY_PPAY_TOTAX	Varchar	3	Not Null
U_PAYOFF_CALC_METH	Varchar	3	Not Null
U_TAX_DUE_MONTH	Varchar	3	Not Null
U_AUDIT_DT	Date		
U_AUDIT_USERID	Varchar	3	Not Null
U_COMMENTS	Varchar	50	Not Null

Table 6: Attorney Fee			
Fields	Data Type	Size	Constraints
ATTY_COUNTY_CD	Varchar	3	Foreign Key
ATTY_UNIT_CD	Varchar	3	Primary Key
ATTY_OLD_PCT	Varchar	3	Foreign Key
ATTY_PCT_START_DT	int	4	Not Null
ATTY_AUDIT_DT	Date		Not Null
ATTY_AUDIT_USERID	Varchar	2	Foreign Key

Table 7: Tax Bill			
Fields	Data Type	Size	Constraints
B_COUNTY_CD	Varchar	3	Foreign Key
B_CAD_ACNT_NBR	Varchar	3	Primary Key
B_UNIT_SEQ_NBR	int	3	Not Null
B_TAX_YR	int	4	Not Null
B_UNIT_CD	Varchar	3	Foreign Key
B_UNIT_ACNT_NBR	Varchar	2	Not Null
Fields	Data Type	Size	Constraints
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B_DISBL_EXEM_AMT	Varchar	2	Not Null
B_OVER_65_EXEM_AMT	Varchar	2	Not Null
B_TAX_AMT	int	10	Not Null
B_TAX_PAYMENT_AMT	int	10	Not Null
B_TAX_PAYMENT_DT	Date		Not Null
B_TAX_PAYMENT_CD	Varchar	2	Not Null
B_DELINQ_TAX_CD	Varchar	2	Not Null
B_BILL_DATA_CD	Varchar	2	Not Null
B_CHG_PENDING_FLG	Varchar	2	Not Null
B_SUIT_NBR	Varchar	10	Not Null
B_AUDIT_DT	Date		
B_AUDIT_USERID	Varchar	3	Foreign Key

Table 8: Tax Suit					
Fields	Data Type	Size	Constraints		
SU_COUNTY_CD	Varchar	3	Foreign Key		
SU_CAD_ACNT_NBR	Varchar	3	Foreign Key		
SU_UNIT_CD	int	3	Not Null		
SU_SUIT_NBR	int	4	Primary key		
SU_SUIT_TXT	Varchar	30			
SU_SUIT_FEE_AMT_1	int	10	Not Null		
SU_SUIT_FEE_AMT_2	int	10	Not Null		
SU_SUIT_TYPE	Varchar	2	Not Null		
SU_AUDIT_DT	date		Not Null		
SU_AUDIT_USERID	varchar	3	Foreign Key		

Table 9: Standard Comment				
Fields	Data Type	Size	Constraints	
CO_COUNTY_CD	Int	10	Foreign Key	
CO_COMMENT_CD	int	10	Primary key	
CO_TEXT	varchar	50	Not Nul	
CO_AUDIT_DT	Date		Not Null	
CO_AUDIT_USERID	varchar	3	Foreign Key	

Table 10: Owner				
Fields	Data Type	Size	Constraints	
O_COUNTY_CD	Varchar	3	Foreign Key	
O_CAD_ACNT_NBR	Varchar	3	Foreign Key	
O_OWNER_NM	int	3	Not Null	
O_SITUS_STREET_NM	int	4	Primary key	
O_SITUS_HOUSE_NBR	Varchar	30		
O_SITUS_DIR_CD	int	10	Not Null	
O_SITUS_BLDG_ID	int	10	Not Null	
O_SITUS_UNIT_NBR	Varchar	2	Not Null	
O_SITUS_SUFFIX_CD	Varchar	2	Not Null	
O_AUDIT_DT	Date		Not Null	
O_AUDIT_USERID	varchar	3	Foreign Key	

Table 11: Parcel				
Fields	Data Type	Size	Constraints	
P_COUNTY_CD	Varchar	3	Foreign Key	
P_CAD_ACNT_NBR	Varchar	3	Primary Key	
P_SITUS_STREET_NM	Varchar	3	Foreign Key	
P_SITUS_HOUSE_NBR	Varchar	3	Not Null	
P_SITUS_DIR_CD	Date		Not Null	
P_SITUS_BLDG_ID	Varchar	2	Foreign Key	
P_SITUS_UNIT_NBR	Varchar	2	Not Null	
P_SITUS_SUFFIX_CD	Varchar	2	Not Null	
P_SITUS_CITY_CD	Varchar	2	Not Null	
P_MAIL_LN1_ADR	Varchar	2	Not Null	
P_MAIL_LN2_ADR	Varchar	2	Not Null	
P_MAIL_LN3_ADR	Varchar	2	Not Null	
P_MAIL_ZIP_CD	Varchar	2	Not Null	
P_ACREAGE_QTY	Varchar	2	Not Null	
P_ASSD_LAND_VAL	Varchar	2	Not Null	
P_ASSD_IMPR_VAL	Varchar	3	Foreign Key	

Fields	Data Type	Size	Constraints
P_VETERAN_EXEM_AMT	Varchar	3	Foreign Key
P_OVER_65_FREEZ_DT	Varchar	3	Not Null
P_TOTAL_EXEMPT_FLG	Date		Not Null
P_PROP_CLASS_CD	Varchar	2	Foreign Key
P_CONVEY_DOC_DT	Varchar	2	
P_SUB_ID	Varchar	2	Not Null
P_COMMENT_CD1	Varchar	2	Not Null
P_COMMENT_CD2	Varchar	2	
P_COMMENT_CD3	Varchar	2	
P_COMMENT_CD4	Varchar	2	
P_AUDIT_DT	Varchar	2	Not Null
P_AUDIT_USERID	Varchar	2	Not Null
P_LEGAL_DESC_TXT	Varchar	3	Not Null
P_JURISDICTIONS	Varchar	3	Foreign Key
P_COMMENTS	Varchar	3	

Table 12: Subdivision					
Fields	Data Type	Size	Constraints		
SU_COUNTY_CD	Varchar	3	Foreign Key		
SU_SUBCODE	Varchar	3	Primary Key		
SU_SUBDIVISION_NAM	Varchar	30	Not Null		
SU_ENTITY_CITY_NAM	Varchar	30	Not Null		
SU_AUDIT_DT	Date		Not Null		
SU_AUDIT_USERID	varchar	3	Foreign Key		

Table 13: CAD XRef				
Fields	Data Type	Size	Constraints	
X_COUNTY_CD	Varchar	3	Foreign Key	
X_NEW_CAD_ACNT_NBR	Varchar	3	Primary Key	
X_NEW_COMMENT_CD	Varchar	30	Not Null	
X_OLD_CAD_ACNT_NBR	Varchar	30	Not Null	
X_OLD_COMMENT_CD	int	6	Not Null	
X_AUDIT_DT	Date		Not Null	
X_AUDIT_USERID	varchar	3	Foreign Key	

Table 14: Order			
Fields	Data Type	Size	Constraints
OR_COUNTY_CD	Varchar	3	Foreign Key
OR_CUSTOMER_ID	Varchar	3	Foreign Key
OR_ORDER_NBR	Varchar	30	Primary Key
OR_CLOSER_ID	Varchar	30	Not Null
OR_BRANCH_ID	Varchar	3	Foreign Key
OR_ORDER_TYPE	int	3	Not Null
OR_SUBTYPE	int	4	Not Null
OR_OPEN_DT	Varchar	3	Foreign Key
OR_CANCEL_DT	Varchar	2	Not Null
OR_EXPIRE_DT	Varchar	2	Not Null
OR_HOA_REQ_DT	Varchar	2	Not Null
OR_CERT_REQ_DT	Varchar	2	Not Null
OR_OVERRIDE_FEE	int	10	Not Null
OR_BUYER_NM	Varchar	5	Not Null
OR_SELLER_NM	Varchar	2	Not Null
OR_SITUS_ADR	Varchar	2	Not Null
OR_LEGAL_DESC_TXT	Varchar	2	Not Null
OR_SUBDIV_NM	Varchar	2	Not Null
OR_AUDIT_DT	Date		Not Null
OR_AUDIT_CUSTID	varchar	3	Foreign Key
OR_AUDIT_USERID	varchar	3	Foreign Key
OR_OVERRIDE_TS	int	3	Not Null
OR_OVERRIDE_CUSTID	int	4	Foreign Key
OR_OVERRIDE_USERID	Varchar	3	Foreign Key
OR_COMMENT_CD1	int	6	Not Null
OR_COMMENT_CD2	int	6	Not Null
OR_COMMENT_CD3	int	6	Not Null
OR_COMMENT_CD4	int	6	Not Null
OR_COMMENT_CD5	int	6	Not Null
OR_COMMENT_CD6	int	6	Not Null
OR_COMMENTS	Varchar	45	Not Null
OR_TRW_COMMENTS	Varchar	2	Not Null
OR_TRW_NOTES	Varchar	2	Not Null

Table 15: Order Item				
Fields	Data Type	Size	Constraints	
I_COUNTY_CD	Varchar	3	Foreign Key	
I_CUSTOMER_ID	Varchar	3	Foreign Key	
I_ORDER_NBR	Varchar	30	Primary Key	
I_CAD_ACNT_NBR	Varchar	30	Not Null	
I_SEARCH_TS	Varchar	3	Foreign Key	
I_SEARCH_CUSTID	int	3	Not Null	
I_SEARCH_USERID	int	4	Not Null	
I_CANCEL_TS	Varchar	3	Foreign Key	
I_CANCEL_CUSTID	Varchar	2	Not Null	
I_CANCEL_USERID	Varchar	2	Not Null	

Table 16: Certificate				
Fields	Data Type	Size	Constraints	
CE_COUNTY_CD	Varchar	3	Foreign Key	
CE_CUSTOMER_ID	Varchar	3	Foreign Key	
CE_ORDER_NBR	Varchar	30	Primary Key	
CE_CERTIFICATE_NBR	Varchar	30	Not Null	
CE_ORDER_ITEM_CNT	Varchar	3	Foreign Key	
CE_FEE	int	3	Not Null	
CE_PRINTED_FEE	int	4	Not Null	
CE_SALES_TAX	Varchar	3	Foreign Key	
CE_DISCOUNT_AMT	Varchar	2	Not Null	
CE_OVERRIDE_FEE	Varchar	2	Not Null	
CE_OVERRIDE_FLG	Varchar	2	Not Null	
CE_AUDIT_TS	Varchar	2	Not Null	
CE_AUDIT_USERID	int	10	Not Null	
CE_AUDIT_CUSTID	Date		Not Null	
CE_REQ_ORDER_TYPE	Varchar	2	Not Null	

Table 17: Pending Certificate				
Fields	Data Type Size		Constraints	
CP_COUNTY_CD	Varchar	3	Foreign Key	
CP_CUSTOMER_ID	Varchar	3	Foreign Key	
CP_ORDER_NBR	Varchar	30	Primary Key	
CP_CERT_TYPE	Varchar	30	Not Null	
CP_COUNTY_NM	Varchar	3	Foreign Key	
CP_BRANCH_ID	int	3	Not Null	
CP_CLOSER_ID	int	4	Not Null	
CP_SERV_BRANCH_ID	Varchar	3	Foreign Key	
CP_REQUEST_USERID	Varchar	2	Not Null	
CP_REQUEST_TS	Varchar	2	Not Null	
CP_REQUEST_NBR	Varchar	2	Not Null	
CP_COMP_USERID	Varchar	2	Not Null	
CP_COMP_TS	int	10	Not Null	
CP_COMP_OVERRIDE	Date		Not Null	
CP_COMMENTS	Varchar	2	Not Null	
CP_ORD_EXPORT_IND	Varchar	2	Not Null	

Table 18: HOA Collector				
Fields	Data Type	Size	Constraints	
HC_COLLECTOR_CD	Varchar	3	Foreign Key	
HC_COLLECTOR_NM	Varchar	3	Foreign Key	
HC_ADDRESS	Varchar	30	Primary Key	
HC_CITY	Varchar	30	Not Null	
HC_STATE	Varchar	3	Foreign Key	
HC_ZIP	int	3	Not Null	
HC_PHONE	int	4	Not Null	
HC_CONTACT	Varchar	3	Foreign Key	
HC_FAX	Varchar	2	Not Null	
HC_AUDIT_DT	Varchar	2	Not Null	
HC_AUDIT_USERID	Varchar	2	Not Null	

Table 19: HOA Subdivision			
Fields	Data Type	Size	Constraints
HS_COUNTY_CD	Varchar	3	Foreign Key
HS_SUBDIV_HOA_CD	Varchar	3	Foreign Key
HS_SUBDIV_NM	Varchar	30	Primary Key
HS_SUBDIV_BLOCK	Varchar	30	Not Null
HS_HOA_NM	Varchar	3	Foreign Key
HS_HOA_TYP	int	3	Not Null
HS_COLLECTOR_CD	int	4	Not Null
HS_COLLECTOR_NM	Varchar	3	Foreign Key
HS_ADDRESS	Varchar	2	Not Null
HS_CITY	Varchar	2	Not Null
HS_STATE	Varchar	2	Not Null
HS_ZIP	Varchar	2	Not Null
HS_PHONE_HOME	int	10	Not Null
HS_PHONE_WORK	Date		Not Null
HS_FAX	Varchar	2	Not Null
HS_CONTACT	Varchar	2	Not Null
HS_FEE_AMT1	int	4	Not Null
HS_FEE_AMT2	int	4	Not Null
HS_FEE_AMT3	int	4	Not Null
HS_FEE_AMT4	Varchar	2	Not Null
HS_AUDIT_DT	Varchar	2	Not Null
HS_AUDIT_USERID	int	10	Not Null
HS_EMAIL_ADDRESS	Varchar	10	Not Null

Table 20: HOA CAD Locator Xref				
Fields	Data Type	Size	Constraints	
HX_COUNTY_CD	Varchar	3	Foreign Key	
HX_CAD_LOC	Varchar	3	Foreign Key	
HX_SUBDIV_HOA_CD	Varchar	30	Primary Key	
HX_AUDIT_DT	Date		Not Null	
HX_AUDIT_USERID	Varchar	3	Foreign Key	

Table 21: New Subdivision				
Fields	Data Type	Size	Constraints	
NS_COUNTY_CD	Varchar	3	Foreign Key	
NS_CAD_ACNT_NBR_LO	Varchar	3	Foreign Key	
NS_CAD_ACNT_NBR_HI	Varchar	3	Foreign Key	
NS_SUBDIV_NM	Varchar	30	Primary Key	
NS_AUDIT_DT	Date		Not Null	
NS_AUDIT_USERID	Varchar	3	Foreign Key	

Table 22: CAD level HOA				
Fields	Data Type	Size	Constraints	
CH_COUNTY_CD	Varchar	3	Foreign Key	
CH_CAD_ACNT_NBR	Varchar	3	Foreign Key	
CH_SUBDIV_HOA_CD	Varchar	30	Primary Key	
CH_CODING_VALID	Varchar	3	Not Null	
CH_CODING_DT	Varchar	3	Foreign Key	
CH_CODER_CUSTID	int	3	Not Null	
CH_CALL_COUNT	Varchar	3	Foreign Key	
CH_CALLER_CUSTID	Varchar	2	Not Null	
CH_CALLER_USERID	Varchar	2	Not Null	
CH_CALL_TYP1	Varchar	2	Not Null	
CH_CALL_TIMESTAMP1	Varchar	2	Not Null	
CH_CALL_TYP2	int	10	Not Null	
CH_CALL_TIMESTAMP2	Date		Not Null	
CH_CALL_TYP3	Varchar	2	Not Null	
CH_CALL_TIMESTAMP3	Varchar	2	Not Null	
CH_CALL_TYP4	Varchar	2	Not Null	
CH_CALL_TIMESTAMP4	Varchar	2	Not Null	
CH_COMPLETE_DT	Varchar	2	Not Null	
CH_COMPLETE_CUSTID	int	10	Not Null	
CH_COMPLETE_USERID	Date		Not Null	
CH_CONTACT	Varchar	2	Not Null	
CH_PAYOFF_MONTH_1	Varchar	2	Not Null	
CH_PAYOFF_MONTH_2	Varchar	2	Not Null	

Fields	Data Type	Size	Constraints
CH_VERIFY_METHOD	Varchar	2	Not Null
CH_AUDIT_DT	Date		Not Null
CH_AUDIT_CUSTID	Varchar	2	Not Null
CH_AUDIT_USERID	Varchar	2	Not Null
CH_BILLING_CYCLE	Varchar	2	Not Null
CH_COMMENTS	Varchar	25	Not Null

Table 23: CAD level HOA Billing Details				
Fields	Data Type	Size	Constraints	
CL_COUNTY_CD	Varchar	3	Foreign Key	
CL_CAD_ACNT_NBR	Varchar	3	Foreign Key	
CL_SUBDIV_HOA_CD	Varchar	30	Primary Key	
CL_LINE_NBR	Varchar	3	Not Null	
CL_BILL_FROM	Varchar	3	Foreign Key	
CL_BILL_THRU	int	3	Not Null	
CL_LEGAL	int	4	Not Null	
CL_BILLING_CYCLE	Varchar	3	Foreign Key	
CL_ASSESSMENT_TYPE	Varchar	2	Not Null	
CL_DUE_OR_PAID	Varchar	2	Not Null	
CL_BASE_AMT	Varchar	2	Not Null	
CL_PAYOFF_AMT_1	Varchar	2	Not Null	
CL_PAYOFF_ADD_1	int	10	Not Null	
CL_PAYOFF_AMT_2	Date		Not Null	
CL_PAYOFF_ADD_2	Varchar	2	Not Null	
CL_AUDIT_TS	Date		Not Null	
CL_AUDIT_CUSTID	Varchar	2	Not Null	
CL_AUDIT_USERID	Varchar	2	Not Null	

Table 24: Order level HOA				
Fields	Data Type	Size	Constraints	
OH_COUNTY_CD	Varchar	3	Foreign Key	
OH_CUSTOMER_ID	Varchar	3	Foreign Key	
OH_ORDER_NBR	Varchar	30	Primary Key	

Fields	Data Type	Size	Constraints
OH_CODING_VALID	Varchar	3	
OH_CODING_DT	int	3	Not Null
OH_CODER_CUSTID	int	4	Not Null
OH_CODER_USERID	Varchar	3	Foreign Key
OH_CALL_COUNT	Varchar	2	Not Null
OH_CALLER_CUSTID	Varchar	2	Not Null
OH_CALLER_USERID	Varchar	2	Not Null
OH_CALL_TYP1	Varchar	2	Not Null
OH_CALL_TIMESTAMP1	int	10	Not Null
OH_CALL_TYP2	Date		Not Null
OH_CALL_TIMESTAMP2	Varchar	2	Not Null
OH_CALL_TYP3	int	4	Not Null
OH_CALL_TIMESTAMP3	Varchar	3	Foreign Key
OH_CALL_TYP4	Varchar	2	Not Null
OH_CALL_TIMESTAMP4	Varchar	2	Not Null
OH_COMPLETE_DT	Varchar	2	Not Null
OH_COMPLETE_CUSTID	Varchar	2	Not Null
OH_COMPLETE_USERID	int	10	Not Null
OH_CONTACT	Date		Not Null
OH_PAYOFF_MONTH_1	Varchar	2	Not Null
OH_PAYOFF_MONTH_2	int	4	Not Null
OH_PAID_THRU	Varchar	3	Foreign Key
OH_VERIFY_METHOD	Varchar	2	Not Null
OH_AUDIT_DT	Varchar	2	Not Null
OH_AUDIT_CUSTID	Varchar	2	Not Null
OH_AUDIT_USERID	Varchar	2	Not Null
OH_BILLING_CYCLE	int	10	Not Null
OH_COMMENTS	Date		Not Null

Table 25: Order level HOA billing				
Fields	Data Type	Size	Constraints	
OL_COUNTY_CD	Varchar	3	Foreign Key	
OL_CUSTOMER_ID	Varchar	3	Foreign Key	
OL_ORDER_NBR	Varchar	30	Primary Key	
OL_SUBDIV_HOA_CD	Varchar	3	Not Null	
OL_LINE_NBR	Varchar	3	Foreign Key	
OL_BILL_FROM	int	3	Not Null	
OL_BILL_THRU	int	4	Not Null	
OL_LEGAL	Varchar	3	Foreign Key	
OL_ASSESSMENT_TYPE	Varchar	2	Not Null	
OL_DUE_OR_PAID	Varchar	2	Not Null	
OL_BASE_AMT	Varchar	2	Not Null	
OL_PAYOFF_AMT_1	Varchar	2	Not Null	
OL_PAYOFF_ADD_1	int	10	Not Null	
OL_PAYOFF_AMT_2	Date		Not Null	
OL_PAYOFF_ADD_2	Varchar	2	Not Null	
OL_AUDIT_DT	Date		Not Null	
OL_AUDIT_CUSTID	Varchar	2	Not Null	
OL_AUDIT_USERID	Varchar	2	Not Null	

3.13 Test Procedures and Implementation.

Software Testing is a critical element of software quality assurance and represents the ultimate review of specification, design and coding. Testing presents an interactive anomaly for the software engineers. The increasing visibility of software quality assurance and attendant costs associated with software failure always were the motivating force for well planned thorough testing. Well planned and through testing is required to deliver a good system.

Testing the software includes:

- Verify that it behaves "as specified"
- Detects errors
- Validate whether the outputs are as expected.
- Validation: Are we building a right Product?
- Verification: Are we building Product right?

Testing principles:

Some of the Testing principles followed can be given as:

- Testing plan schedules were prepared and incorporated in overall project development.
- Test results and reports were prepared and rectification of bugs was also worked out as per test plan.

Testing Procedures:

Testing of system was basically done with the help of developer. All care was taken so that the application did not violate any memory constraints.

After porting the application into the module if some bugs were reported they were then cleared taking into consideration the module environment.

TESTING IS DONE IN FOUR STAGES

Unit testing:

In the step, each module of the system is tested individually. The GUI testing includes the verification and validation of menus, buttons, toolbars, validation, conditions, navigation conditions, usability conditions, shortcut keys / hot keys, control shortcut keys, etc. In unit testing, abnormally work is done on purpose to ensure that the system rejects such invalid selection. Checking in this fashion is carried for each module of the system to confirm that each module is working correctly and are error free.

Integration testing:

Although each module is verified individually during modules testing, it is important to determine if the modules are working properly when linked together. This is also referred to as integration testing or also interfacing.

In this step the output is compared with the manually calculated output. This comparison gives the result of system testing. This finally ensures that the system is working properly. System testing:

It includes testing of a complete system prior to the delivery. The purpose of system testing is to identify defects that will only survive when a complete system is assembled. That is, defects that cannot be attributed to individual components or the interaction between two components. System testing includes testing of performance, security, and configuration, sensitivity starts up and thus accuracy and reliability of the system is tested.

Testing Plan:

The testing plan focuses on the fundamental requirements of the system. This enables to drive the sets of input conditions that will fully exercise all functional requirements for a program. This plan attempts to find smallest/biggest errors in the module.

No Steps to execute Expected Result Acceptance G	riteria Test Result
1 Login to the application by User should not be	Pass
using approved user able to login to Texas	
credentials mentioned in the Tax Maintenance	
'7.A.1 Login Credentials: Not system	
Associated With any	
Servicing Branch.	
2 Login to the application by Login should be Your logon must	t be Pass
using approved user successful and the associated with	a
credentials mentioned in the homepage of Texas servicing branc	1 to
'7.A.1 Login Credentials: Tax maintenance access the tax	
Associated with a Servicing should be displayed. maintenance U	Ł.
Branch '	
3 Verify that after successful System should present	
login, system displays a basic a basic welcome page	
welcome page when user logs on to	
Texas Tax	
Maintenance system.	
4 Verify that the Services menu System should display After a success	ul Pass
is displayed on the welcome the Services menu on login, I receive	a basic
page so that user can choose the Welcome page. welcome page v	vith the
the service required to use services menu	
from the menu.	
5 Choose a service from the System should display	
Services menu as per the the window for the	
Services Selection (7.A.2) selected service.	
and click on the respective	
6 Verify that CAD Account CAD Account	
Number text box is enabled as Number text box	
per the access permissions to should be enabled as	
user. per the access	
permissions to user.	
7 Select XX from the county System must validate The CAD Acco	unt pass
drop down and click GO the length of the Number is pres	ented
button. specified value and with the dashes	
Specifica (and and and and and and and and and and	in the
Enter CAD Account Number present the CAD proper places.	in the

	Parameters (7.A.3) and press	formatted with dashes		
	Tab.	in the textbox.		
8	Enter CAD Account Number	System must validate	The CAD Account	Pass
	#1 without dashes from	the length of the	Number is presented	
	Validation Testing	specified value and	with the dashes in the	
	Parameters (7.A.3) and press	present the CAD	proper places.	
	Tab.	account number		
		formatted with dashes		
		in the textbox.		
9	Enter CAD Account Number	An edit error should	An edit error occurs	Pass
	#1 from Error Handling	be displayed when an	when an improper	
	Parameters (7.A.4) and press	improper CAD length	length is entered for	
	Tab.	is entered for that	that county.	
	Note: Each county has a	county.		
	different length format for			
	CAD Account number.			
10	Repeat steps 7, 8, 9 for #2-5	All steps should be		Pass
	from Testing Parameters	executed successfully.		
	(7.A.3) and Error Handling			
	Parameters (7.A.4).			
11	Repeat steps 5 to 10 using a	All steps should be		Pass
	different service as per the	executed successfully.		
	Services Selection (7.A.2)			

4.1 User Manual

		Management Anto	DTMF NCD Logout
Rame Texas Tax	-	1	+
GALVESTON	-(1)	/	
Tax Manneyance Services			
Error Gaesar	Welcome to Texas Tax Mainte	nance	
Order Guese			
Tax Dills		$\dot{\frown}$	Ċ
Tax Sutts		(2)	(3)
CAD Cross References	4	\bigcirc	\bigcirc
Mandard Comments	-		
CAD Account Numbers			
View Alflected Orders	\frown		
HCA Maintenance Services	(5)		
Coding Status	\bigcirc		
Code #G8 to Order			
Code HOA to CAD Nors			
Open HOA Sammary			
Subdumion IICA Index			
HOA Collectors			
New Subdivisions			
Data Acquisition Services	(₆)		
Source File Tracking			
Tax that Mantanance			
		😺 Stornat	4 × \$100% *

Above image is screenshot of main page of Texas Tax

Maintenance.

- This is a county dropdown. User should select required county and click GO.
- 2. This is User id of logged in user. NCS explains branch of user.
- This is Log Out button. User should use the same for signing off.

- 4. This is a Tax Maintenance Service. User should use these services to eliminate Tax errors. Refer 4.2 for more details.
- This is a HOA Maintenance Service. User should use these services to eliminate HOA errors. Refer 4.2 for more details.
- This is a Data Acquisition Service. User should use these services to manage source files and tax units. Refer 4.2 for more details.

User for the system

Data Acquisition coordinators

Each user has its individual login and its restriction is given depending on the login. Users can understand the system by just working on it, the UI designed is very friendly. The terms used in UI to interact with the user have the same day to day terms which were used in the existing, manual system, non-computerized work. This makes the user comfortable to interact with system.

4.2 **Operation manual**

Source Tape Tracking

This option from the TTM Menu opens the Source Tape Tracking menu. This menu allows the user to track and maintain tapes. From this menu the user can send, browse, add, update, and delete tapes.

All business unit users may access Source Tape Tracking; however, sub-functions are restricted by Texas tax userlevel security.

Browse Tapes by Tape Name

This option from the Source Tape Tracking menu allows the user to browse tapes by tape name. Enter the name (or partial name) of the tape and press Enter. Place the cursor on the tape and press Enter to browse the selected tape.

Add a Tape

This option from the Source Tape Tracking menu allows the user to add a tape using the format code, content code, tape name, and frequency parameters. The Texas Tax user level security option SOURCE_UPDATE controls whether users may access this function.

Update a Tape

This option from the Source Tape Tracking menu allows the user to update a tape. The Texas Tax user level security option SOURCE_UPDATE controls whether users may access this function.

Delete a Tape

This option from the Source Tape Tracking menu allows the user to delete a tape. The Texas Tax user level security option SOURCE_UPDATE controls whether users may access this function.

Type in the tape name (or partial name) and press Enter. Place the cursor on the tape you want to delete and press Enter.

Display Tax Unit Through Dates

This option from the TTM Menu displays the tax unit through dates for the currently selected Texas Tax county. All business unit users may access this function.

Tax Suit Maintenance

This option allows the user to maintain tax suits. The Texas Tax user security setting TAX_SUIT_UPDATE controls who can access this function.

Enter a CAD Account Number and optional Unit and hit Enter to display the suits for the specified CAD account number.

Standard Comment Maintenance

This option from the TTM Menu opens the Standard Comment Maintenance menu. This menu allows the user to perform Standard Comment Maintenance.

Users must have access to STD_COMM_UPD in Texas Tax user level security to access this function.

Add Comments

This option from the Standard Comment Maintenance menu allows the user to add comments.

Update Comments

This option from the Standard Comment Maintenance menu allows the user to update comments. Specify a numeric comment ID and hit ENTER to display the comment.

Delete Comments

This option from the Standard Comment Maintenance menu allows the user to delete comments. Specify a numeric comment ID and hit ENER to display the comment prior to deleting it.

Browse Comments

This option from the Standard Comment Maintenance menu allows the user to browse comments. Leave the comment ID blank or specify a beginning ID to position at and hit ENTER. A list of comments is display and users can scroll through them.

CAD Account Number Cross Reference Maintenance

This option from the TTM Menu opens the CAD Account Number Cross Reference Maintenance menu. This menu allows the user to perform CAD Account Number Cross Reference Maintenance.

Users may have CAD_XREF_UPDATE Texas Tax user level security access to use this function.

Add Account References

This option from the CAD Account Number Cross Reference Maintenance menu allows the user to add up to eight CAD account references at a time. Users may specify a comment ID from the Standard Comment table on either the new or old Cad account number or both.

Delete Account References

This option from the CAD Account Number Cross Reference Maintenance menu allows the user to delete account references.

Add Parcel Splits

This option from the CAD Account Number Cross Reference Maintenance menu allows the user to add parcel splits.

Add Parcel Joins

This option from the CAD Account Number Cross Reference Maintenance menu allows the user to add parcel joins.

Browse by New Account Number

This option from the CAD Account Number Cross Reference Maintenance menu allows the user to browse by new account number. You can specify a value at which to begin the browse and see the CAD account number cross references sequenced by new Cad account number.

Browse by Old Account Number

This option from the CAD Account Number Cross Reference Maintenance menu allows the user to browse by old account number.

Maintain Tax Bills

This option from the TTM Menu opens the Maintain Tax Bills menu. Enter the CAD account number and optional unit press Enter. Users must have access to TAX_BILL_UPDATE in Texas Tax user level security to access this function.

On the initial screen the user specifies a CAD account number with or without dashes and hits ENTER.

To add a bill, scroll to the next screen where there is a blank entry and specify 'A' on the entry and type in the bill information and hit ENTER. Multiple bills may be added at once.

Tax Unit Table Maintenance

This option from the TTM Menu opens the Tax Table Maintenance menu.

Browse Tax Units

This option from the Tax Unit Table Maintenance menu allows the user to browse tax units. Users may specify a complete unit code or a portion of a unit code or ALL to bring up a list of all tax units in unit code sequence. Users may specify a complete unit name, a portion of a unit name or ALL to bring up a list of all tax units in unit name sequence. If a portion of a unit name is specified the system retrieves all units with that portion anywhere in the tax unit name.

Users must specify an exact format code to bring up a list of tax units associated with the format code in tax unit sequence.

Users may position the cursor on a tax unit and press ENTER to prepare to update the unit.

Add a New Tax Unit

This option from the Tax Unit Table Maintenance menu allows the user to add a new tax unit.

Update an Existing Tax Unit

This option from the Tax Unit Table Maintenance menu allows the user to update an existing tax unit.

Specify an exact tax unit code and press ENTER to update the tax unit.

Delete a Tax Unit

This option from the Tax Unit Table Maintenance menu allows the user to delete a tax unit.

Maintain Attorney Fee for Unit Code

This option from the Tax Unit Table Maintenance menu allows the user to maintain attorney fee for unit code. Enter the unit code and press Enter.

CAD Maintenance

This option from the TTM Menu opens the Parcel Maintenance menu. This menu allows the user to add, update, delete, and view parcels/owners.

CAD Maintenance is accessible to all Client branch users.

Parcels may be added for all counties. A parcel added for an automated county or county OTHER has the parcel exception flag set to 'A'.

All fields may be updated for a parcel with parcel exception flag = A' or 'U'. for county OTHER. At this time, only comments and comment codes may be updated for automated counties. The business unit has asked if all fields may be made updatable for all counties.

CAD Maintenance – Add Parcel/Owner

This option from the Parcel Maintenance menu allows the user to add parcels and owners for all automated counties.

CAD Maintenance – Update Parcel/Owner

This option from the Parcel Maintenance menu allows the user to update parcels and owners.

Specify a CAD account number with or without dashes and press ENTER. The system retrieves information from the database and displays it on the screen. If the parcel was converted from the CAD file only the standard comment codes and freeform comments may be updated.

CAD Maintenance – Delete Parcel/Owner

This option from the Parcel Maintenance menu allows the user to delete parcels and owners.

CAD Maintenance - View Affected Orders

This option from the Parcel Maintenance menu allows the user to view affected orders. The user may specify a CAD account number with or without dashes and press ENTER.

Code HOA Orders

This option from the TTM Menu opens the HOA Coding Menu. This menu allows the user to code by account number, customer, and GF number. The user can also view coding status and review accounts and GF numbers coded to research.

HOA Coding Menu – Code by Account Number

This option from the HOA Coding Menu allows the user to code by account number.

Specify a blank CAD account number or a portion of a CAD account number to bring up the first un-coded CAD account number associated with an order in the list of pending certificates. Note that the CAD account number cannot be cancelled from the order.

HOA Coding Menu – Code by Customer

This option from the HOA Coding Menu allows the user to code by customer and GF number. HOA should only be coded to the GF if at least one account on the order is in th New Subdivision table.

The user may leave both customer ID and order blank specify a customer ID and blank order number or a customer ID and specific order and press ENTER. If a customer and order is specified the system looks in the order table. Otherwise the system displays the first un-coded order found in the list of pending certificates with at least one account in the New Subdivision table.

HOA Coding Menu – Coding Status

This option from the HOA Coding Menu allows the user to view the coding status.

Note that regardless of the current county the system shows the counts for all counties. This is the only sub-function in the HOA Coding maintenance function that retrieves data for all counties instead of the current county.

HOA Coding Menu – Review Accounts Coded to Research

This option from the HOA Coding Menu allows the user to review accounts coded to research.

HOA Input HOA Order Data

This option from the TTM Menu opens the Input HOA Detail Menu. This menu allows the user to input HOA line items by account number or customer and GF number.

Input HOA Detail By Account Number

This option from the Input HOA Detail Menu allows the user to input the HOA detail.

Input HOA Detail By Customer

This option from the Input HOA Detail Menu allows the user to input HOA detail by customer and GF.

HOA Sub/HOA Index Maintenance

This option from the TTM Menu opens the HOA Subdivision/HOA Index Maintenance.

Module:	Program Name	Constraints	Description
Authentication	Login	The required fields must not be null	To access the system user is given the login details
	Change Password	Must enter correct password and also new password twice for verification.	User can change the password his or her current password to new password.

4.3 **Program specifications**

Module:	Program Name	Constraint	Description
CAD Acc Nbr	Add CAD	The required fields must not be null and no repeated CAD must be added.	User can add new CAD details by entering all details.
CAD XRef	Add XRef	The required fields must not be null and no repeated CAD must be added.	User can add new mapping by selecting CAD and entering required range of the CAD.
Standard Comment	Add Comment	The required fields must not be empty.	User can create a new comment which can be used in other modules.
Tax Bill	Add bill	The required fields must not be null	User can add new tax bill details by entering all details.
Tax Suit	Add Suit	The required fields must not be null	User can add new tax suit details by entering all details.
Code HOA to CAD	Code HOA	The required fields must not be null. Should not code same HOA twice.	User can code HOA details by entering all details to CAD.

Code HOA to Order	Code HOA	The required fields must not be null. Should not code same HOA twice.	User can code HOA details by entering all details to Order.
HOA Collector	Add Collector	The required fields must not be null.	User can add new collector by entering all details.
New Subdivision	Add Subdivision	The required fields must not be null.	User can add new subdivision by entering all details.
Coding Status	View Status	The required fields must not be null.	Admin can view coding status

Drawbacks and limitations

- 1. Constant Database Sync up required
- 2. High switching costs.
- 3. Constant up gradations.

Proposed Enhancements

- The SoundQ algorithm is under research for detailed searches.
- 2. High end security
- The UI shall be flexible for updating company as well as government policies.

Conclusions

In the present world of technology where computer has become the primary necessity of each and every field, the software developed gives the way to handle manual work in very efficient and very correct way.

The development of any business application is part of our MCA curriculum. The project was expected to complete using system development life cycle [SDLC] approach. The actual implementation of these aspects gave exposure to the problem in real life situation involved in project development and how to handle them in efficient manner.

All the masters, transactions and the procedure of the modules are maintained as per the documentation and the developed system is satisfying all the requirements of the users.

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ANNEXURE 1: USER INTERFACE SCREENS

Code HOA to Order

						Welcome: NSQ1	TMF NCS Log
Home Texas Tax							
GALVESTON 💌	Go						
ax Maintenance Services							
Error Queue	Code HOA to Or	der					
Order Queue							
Tax Bills	Cust	Order	Search	(F8) Next Un-Coded Orde	r		
Tax Suits							
CAD Cross References	- Order Information Buyer:	Seller					
Standard Comments	Situs:	Lender:					
CAD Account Numbers	Legal:						
View Affected Orders	- HOAs Coded to the Order		Un-Code HOA				
IOA Maintenance Services	SUBDIVISION NAME/BLOCK	HOA	CODING DATE	CODER BRANCH ID	CODER USER ID		
Coding Status							
Code HOA to Order							
Code HOA to CAD Nbrs							
Open HOA Summary	Sub Name		Search Code HC	A View HOA Comments			
Subdivision / HOA Index	SUBDIVISION NAME	BLOCK	HOA	CONTACT	CODE	COLLECTOR NAME	
HOA Collectors							
New Subdivisions							
Data Acquisition Services							
Source File Tracking							
Tax Unit Maintenance							
ne					6	Internet	■ 100%

HOA Coding Status

GALVESTON	60				
GALVESTON	40				
ax Maintenance Services	LIOA Cadina C	The later			
Error Queue	HOA Coully 3	oldlus			
Order Queue					
Tax Bills	County Name	Un-Coded CAD Acnt Nbrs	Un-Coded Orders	REFRESH	
Tax Suits	EL PASO	0	1		
CAD Cross References	HAYS	0	1		
Standard Comments	WALLER	1	0		
CAD Account Numbers					
View Affected Orders					
OA Maintenance Services					
Coding Status					
Code HOA to Order					
Code HOA to CAD Nbrs					
Open HOA Summary					
Subdivision / HOA Index					
HOA Collectors					
New Subdivisions					
ata Acquisition Services					
Source File Tracking					

Source File Tracking – View Details

					Welcom	e:NSQTMF NCS Lo
Home Texas Tax	-					
GALVESTON 💌	Go					
vy Maintenance Services						
Error Queue	View Detail	s - Source F	ile Tracking			
Order Queue						
Tax Bills	Delete Source File	e Update I	Cancel			
Tax Suits	1 Charles and					
AD Cross References	Format Code	EQU	Last Updated 10	-03-12 by		
Standard Comments	Content Code	CD				
AD Account Numbers	File Name*	EQUITAX TAXES	& PAYMENTS			
iew Affected Orders						
Maintenance Services	Send Date	09-27-12				
oding Status	Copy Date	10-03-12	Copy Job	TX84A0UA		
ode HOA to Order	Convert Date	10-03-12	Convert Job	TX84A0UA		
ode HOA to CAD Nbrs	Undate Date	10-03-12				
pen HOA Summary	opunte bute					
ubdivision / HOA Index	New Through Date		Frequency	18		
OA Collectors			Qty Processed	301		
ew Subdivisions	Multi Code		Cost of File	25.00		
Acquisition Services						
ource File Tracking						
ax Unit Maintenance						

Source File Tracking

Home Texas Tax							weicom	
GALVESTON 💌	Go							
v Maintenance Services								
Error Queue	Source File Tracking							
Order Queue								
Tax Bills	Update Tax Collector View Files To Be Process	ed Assign thru l	Date Add	View Details	6.			
Tax Suits								
CAD Cross References	Source File Name	earch (F8)						
Standard Comments	Source File Name 📚	Format Code	Content Code	Convert Job	Through Date on System	New Throu	ugh Date	
CAD Account Numbers	ASSESSMENTS OF THE SOUTHWEST	WHC	CD	TX84A1RA	04-04-13			~
View Affected Orders	BOB LEARD	BLI	CD	TX84A0FA	03-19-13			
DA Maintenance Services	CLEAR CREEK ISD TAXES AND PAYMENTS	S16	CD	TX84A4IA	03-07-13	04-05-13		
Coding Status	EQUITAX TAXES & PAYMENTS	EQU	CD	TX84A0UA				
Code HOA to Order	FRIENDSWOOD TAXES & PAYMENTS	S12	CD	TX84A3PA	03-22-13			
Code HOA to CAD Nbrs	CALVESTON CAD SUPPLEMENTALS	SLIP	AD	TY944544				
Open HOA Summary		001		The second				
Subdivision / HOA Index	GALVESTON COUNTY	GGA	CD	12844344	03-19-13			
HOA Collectors	TEST	TT	CD					
New Subdivisions	TEXAS CITY PARCELS	S18	PC	TX84A3OA	04-01-13			
ata Acquisition Services	TEXAS CITY TAXES AND PAYMENTS	S18	CD	TX84A3OA	04-01-13			
Source File Tracking								
Tax Unit Maintenance	View 1 - 10 of 11			-	First Prev 1 2	Next	Last 10	×
HOA Collector

Home Texas Tax	all.		
GALVESTON 💌	Go		
_	-		
ix Maintenance Services	HOA Colle	ctor Maintenance	
Error Queue			
Order Queue			
Tax Bills	Code	Name View Collectors (F8) View HOAs Add Collector	View Details
Tax Suits	Code	Collector Name 🗄	
CAD Cross References	3308	***PLEASE EMAIL***	
Standard Comments	3306	**EMAIL**	
CAD Account Numbers	3243	ABBOTT TEAM MANAGEMENT	
View Affected Orders	2777		
DA Maintenance Services	3111	ABJERGERTTINNAGENENT	
Coding Status	3334	ABSOLUTE MGMT	
Code HOA to Order	3053	ACADEMY DEV	
Code HOA to CAD Nbrs	3056	ACMI	
Open HOA Summary	3105	ACMP	
Subdivision / HOA Index	3971	ACS NETWORK, INC.	
HOA Collectors	3262	ACTION PROPERTY	
New Subdivisions			
ta Acquisition Services	view 1 - 10 of 904	First Prev 1 2 3 Next Last 10	
Source File Tracking			
Tax Unit Maintenance			

HOA Collector – Add Collector

lome Texas Tax						
GALVESTON M GO						
x Maintenance Services	HOA Collector Maintenan	ice - Add Collector				
Error Queue		Aud Collector				
Order Queue						
ax Bills	Collector A	Add Cancel				
ax Suits	Collector					
AD Cross References	Name*					
tandard Comments	Address*					
AD Account Numbers	City		State	Zip -		
iew Affected Orders			Phone	FAX	Request Paper Preferen	ice
Maintenance Services	Contact Name				Email By Item	~
oding Status					Special Form	
ode HOA to Order					Standard	~
ode HOA to CAD Nbrs	Wabsita					1000
pen HOA Summary	Website					
ubdivision / HOA Index	Email		Show Email on Certificate			
OA Collectors			~			
ew Subdivisions						
a Acquisition Services	Community					
ource File Tracking	Comments					
ax Unit Maintenance						
			100			

HOA Collector – View Details

GALVESTON V	60									
x Maintenance Services	HOA Colle	ector Mai	intenance -	View Col	lector Detai					
Error Queue			neenanoe							
Order Queue										
Tax Bills	Collector Code		3105	Update	Cancel Dele	te Collector				
Tax Suits	Last updated 0	3-03-13 by MXJ								
CAD Cross References	Collector	ACMP								
Standard Comments	Name"									
CAD Account Numbers	Address*	16650 PINE F	-OREST							
View Affected Orders	City	HOUSTON				State TX	Zip 77084	- 0000		
A Maintenance Services						Phone	FAX		Request Paper Prefe	erence
Coding Status	Contact Name	TERRY				(281)855-9867	(281)855-34	11	Email By Item	~
Code HOA to Order									Special Form	
Code HOA to CAD Nbrs									Standard	~
Open HOA Summary	Website									
Subdivision / HOA Index	Email	TERRIMACN	IPINC COM				7			
HOA Collectors	Linda					Show Email on Certificate				
New Subdivisions		TRANCEPPD	PPP 075 (DPP7	INAMOP PPP	225	~				
ta Acquisition Services		TURNOTER	ELL YIJ & REFI	INPRICE FEE 6	100					
Source File Tracking	Comments									
Tau Unit Maintenanaa	Comments									

HOA Index – Search Result

			Welcome: NSQ	TMF NCS Logout
Home Texas Tax				
GALVESTON 💌	Go			
Fax Maintenance Services				
Error Queue	Subdivision	/ HOA Index - Search Results		
Order Queue				
Tax Bills	View Detail	Add HOA Add CAD Locator Delete CAD Locator	Mass Update	
Tax Suits				
CAD Cross References	CAD Locator	Sub Name	Search (F8)	
Standard Comments	E CADLOC	CHIDDRACION NAME / DLOCK	HOAA	
CAD Account Numbers	- 335400	1511 CHURCH STREET		~
View Affected Orders	645000		1708 PDO IDWAY COLL	
OA Maintenance Services	645200	1726 BROADWAY CONDO	1726 BROADWAY COH	
Coding Status		18201 ANNE DRIVE	RESEARCH REQUIRED	
Code HOA to Order	Г	18223 ANNE DRIVE	BS	
Code HOA to CAD Nbrs	Г	18608 KINGS LYNN	RESEARCH REQUIRED	
Open HOA Summary	Γ	210100 CREEK 2	AUTUMN CREEK HOA	
Subdivision / HOA Index	—	224600KS 2	BS	
HOA Collectors	F 725700	22ND ESTATES	RESEARCH REQUIRED	
New Subdivisions	F 158600	2300 BAYSHORE ESTATES	BS	
ata Acquisition Services	□ 339500	4705 CROCKET BLVD	RESEARCH REQUIRED	
Source File Tracking				
Tax Unit Maintenance				
				~
iting for http://admin.edatatrace.o	om/HOASubDivision/SearchR	esults	🕒 Internet	🖓 • 🔍 100% •

HOA Index – View Details

GALVESTON 💌	Go										
laintenance Services	Subdivision	h / HOA I	ndex - Viev	v Detail							
ror Queue											
der Queue		0									
x Bills	Opdate	CallCe	Jelete HOA								
c Suits	Subdivision HOA	Code 024180	Last Updated	02-04-05 by V SM							
D Cross References	Sub Name*	1726 BROAL	JWAY CONDO		Block						
D Account Numbers	HOA Type*	6 - REQUIRE	ES FEE 💌								
w Affected Orders	HOA Name*	1726 BROAD	WAY COH								
Jaintenance Services	Collector Code	0 Co	llector Name								
ding Status	Address	P O BOX 85		City GALV	ESTON	State T	X Zip	77553	- 0000		
de HOA to Order											
le HOA to CAD Nbrs	Contact	KATHY VIGO	SIANO	Phone: Wor	k (409)//1-2/91	Fax		Home	(409)/65-1435		
en HOA Summary	Website							Reque	st Paper Preferen	се	
division / HOA Index	Email				Show Email on Ce	rtificate?	1		~		
A Collectors	Insurer	JAN AUSTIN			Common Area Ins	Included in	Fee? 🔽	Phone	(409)740-1251		
N Subdivisions	Fee Type 1	Amount 1	Eee Type 2	Amount 2	Fee Type 3	Amount 3	Eeo	Type 4	Amount 4		
Acquisition Services	ree type t	Annount	Lee type z	Amount 2	100 1300 3	Aniount	100	i Jbe 4	Amount 4		
urce File Tracking	· · · · · · · · · · · · · · · · · · ·										
ace the tracking											

New Subdivision Maintenance – Search Result

GALVESTON 💌	Go				
ax Maintenance Services	New Cubdinisian Maintenance				
Error Queue					
Order Queue					
Tax Bills		Delete CAD De	lete Sub Add CAD	Add Sub	
Tax Suits					
CAD Cross References	Sub Name	CAD Acti	t	Search (F8)	
Standard Comments	Subdivision	CAD Account Number	Through CAD Account Number	Audit Trail	
CAD Account Numbers	BAY COLONY POINTE WEST 6	0019-0033-0000-000		DXG 12-05-12	
View Affected Orders	BENTWOOD AT BAY COLONY 3	0019-0082-0000-000		JHM 12-31-07	
DA Maintenance Services	BENTWOOD AT BAY COLONY 3	0019-0082-0000-001		JHM 12-31-07	
Coding Status	BRITTANY BUSINESS PARK	2580-0014-0002-002		ARC 11-16-07	
Code HOA to Order	BRITTANY BUSINESS PARK PH 1	1989-0001-0002-000		DXG 07-19-12	
Code HOA to CAD Nbrs	BRITTANY BUSINESS PARK PH3	0989-0000-0004-000		MLM 01-02-13	
Open HOA Summary	BRITTANY BUSINESS PARK PH3	1989-0000-0002-000		MLM 01-02-13	
Subdivision / HOA Index	BRITTANY BUSINESS PARK PH3	1989-0001-0002-000		MLM 01-02-13	
HOA Collectors	CALAVAN ESTATES R/P	3510-0093-1001-000		ARC 07-27-07	
New Subdivisions	CENTERPOINTE 5	4615-0015-0003-000		ARC 11-22-05	
ta Acquisition Services					
Source File Tracking	View 1 - 10 of 89		First Prev 1 2 3 Next	t Last 10 💌	
Tax Unit Maintenance					

Open HOA Summary – Billing Details

the second s											
Error Queue	Open HOA	Summary - Bi	lling Detail for	CAD level H	IOA						
Order Queue	Tonn new later										_
Tau Dilla	CAD Ron Inter	Nhr 2818-0013-0007-00	0								
Tax Bills	Owner:	HOWE BRIAN E & A	PRIL		Situ	s: 5614 DAWN C	т				
Tax Suits	Lens!	ABST 9 PAGE 11 LO	T 7 BLK 13 COUNTRYS	DE SEC 3 ABST/SUI	B ID						
CAD Cross References	Logo.	S2818									_
Standard Comments	* HOA Informatio	on									
CAD Account Numbers	Sub Nm:	COUNTRYSIDE 3		Block							
Form Marshad Contains	110.0 \$1001	COUNTRYCIDE COUT	1.01	Collector							
view Anected Orders	HOA Nm: Collector Addr	COUNTRYSIDE SOUTI	H CA	Collector:							
New Affected Orders A Maintenance Services	HOA Nm: Collector Addr Contact:	COUNTRYSIDE SOUTI r: P.O BOX 1440 LEAGUE GAIL	H CA E CITY TX 77574-1440	Collector: Phone: (281) 38	4-4581	Fax		Prefei	rence:		
View Affected Orders DA Maintenance Services Coding Status	HOA Nm: Collector Addr Contact: Website:	COUNTRYSIDE SOUTI r: P.O BOX 1440 LEAGUE GAIL	H CA E CITY TX 77574-1440	Collector: Phone: (281) 38 Email: GSTITEL	4-4581 ER@COMCA	Fax: ST.NET		Prefer	rence: v Email on Cert: N	0	
A Maintenance Services	HOA Nm: Collector Addi Contact: Website: Complete:	COUNTRYSIDE SOUTI r: P.O BOX 1440 LEAGUE GAIL Fax By Item: (H CA E CITY TX 77574-1440)4-11-13 17:26PM	Collector: Phone: (281) 38 Email: GSTITEL	4-4581 ER@COMCA	Fax: BT.NET		Prefe Shov	rence: v Email on Cert. N	0	
View American Orders VA Maintenance Services Coding Status Code HOA to Order Code LOA to CAD Name	HOA Nm: Collector Addi Contact: Website: Complete: Contact:	COUNTRYSIDE SOUTI Ir: P.O BOX 1440 LEAGUE GAIL Fax By Item: (Billin	H CA E CITY TX 77574-1440 04-11-13 17:26PM g Cycle:	Collector: Phone: (281) 38 Email: GSTITEL	4-4581 ER@COMCAS Pd Thru:	Fax: ST.NET	Verified By:	Prefe	rence: v Email on Cert. N	0	
View Anected Orders A Maintenance Services Coding Status Code HOA to Order Code HOA to CAD Nbrs Code HOA to CAD Nbrs	HOA Nm: Collector Addi Contact: Website: Complete: Contact Update	COUNTRYSIDE SOUTI Ir: P.O BOX 1440 LEAGUE GAIL Fax By Item: (Billin omplete (F9) Back	H CA E CITY TX 77574-1440 04-11-13 17:26PM g Cycle: Call Collector	Collector: Phone: (281) 38 Email: GSTITEL 	4-4581 ER@COMCA Pd Thru:	Fax: ST.NET Redeem Mon	Verified By:	Prefer	rence: v Email on Cert. N	0	
A Maintenance Services Coding Status Code HOA to Order Code HOA to CAD Nbrs Open HOA Summary	HQA Nm: Collector Addi Contact: Website: Complete: Contact: Update Contact:	COUNTRYSIDE SOUTI IF: P.O BOX 1440 LEAGUE GAIL Fax By Item: (Billin omplete (F9) Back	H CA E CITY TX 77574-1440 04-11-13 17:26PM g Cycle: Call Collector	Collector: Phone: (281) 38 Email: GSTITEL	4-4581 ER@COMCA: Pd Thru:	Fax: ST.NET Redeem Mon	Verified By:	Prefer	rence: v Email on Cert. N	0	
View Allected Orders DA Maintenance Services Coding Status Code HOA to Order Code HOA to CAD Nbrs Open HOA Summary Subdivision / HOA Index	HOA Nm: Collector Addi Contact: Website: Complete: Contact: Update Co	COUNTRYSIDE SOUTI IF: P.O. BOX 1440 LEAGUE GAIL Fax By Item: (Billin omplete (F9) Back TE LEGAL	H CA E CITY TX 77574-1440 04-11-13 17:26PM 9 Cycle: Call Collector ASSESS	Collector: Phone: (281) 38 Email: GSTITEL Code To Research MENT TYPE	4-4581 ER@COMCAS Pd Thru: DUE?	Fax: BT.NET Redeem Mon BASE AMT	Verified By:	Prefer Show	rence: v Email on Cert. N v REDEEM AMT	0 ADD?	
View Anected Orders DA Maintenance Services Coding Status Code HOA to Order Code HOA to CAD Nbrs Open HOA Summary Subdivision / HOA Index HOA Collectors	HOA Nm: Collector Addi Contact: Website: Contact: Update Contact BILL © DAT	COUNTRYSIDE SOUTI IF: P.O BOX 1440 LEAGUE GAIL Fax By Item: (Billin omplete (F9) RE LEGAL	H CA E CITY TX 77574-1440 24-11-13 17:26PM 9 Cycle: Call Collector ASSESS	Collector: Phone: (281) 38 Email: GSTITEL 	4-4581 ER@COMCA: Pd Thru: DUE?	Fax: ST.NET Redeem Mon BASE AMT	Verified By:	Prefer Show	rence: v Email on Cert. N M REDEEM AMT	o ADD?	
View Anecued Orders >A Maintenance Services Coding Status Code HOA to Order Code HOA to CAN Ibrs Open HOA Summary Subdivision / HOA Index HOA Collectors New Subdivisions	Collector Addi Collector Addi Contact: Website: Complete: Contact: Update Co BiLL © DAT	COUNTRYSIDE SOUTI IF: P.O BOX 1440 LEAGUE GAIL Fax By Item: (Omplete (F9) TE LEGAL	H CA E CITY TX 77574-1440 24-11-13 17:26PM 9 Cycle: Call Collector ASSESS	Collector: Phone: (281) 38 Email: GSTITEL Code To Research MENT TYPE	4-4581 ER@COMCAS Pd Thru:	Fax BT.NET Redeem Mon BASE AMT	Verified By: h: REDEEM AMT	Prefer Show	rence: v Email on Cert: N REDEEM AMT	o ADD?	
A Maintenance Services A Maintenance Services Code HOA to Order Code HOA to CAD Nbrs Open HOA Summary Subdivision / HOA Index HOA Collectors New Subdivisions Ia Acquisition Services	HOA Nm: Collector Addi Contact: Website: Complete: Contact C Dipdate CC BiLL & DAT	COUNTRYSIDE SOUTI Ir: P O BOX 1440 LEAGUE GAIL Fax By Item: (Billin omplete (F9) Back TE LEGAL	H CA E CITY TX 77574-1440 34-11-13 17:26PM 9 Cycle: Call Collector ASSESS	Collector: Phone: (281) 38 Email: GSTITEL 	4-4581 ER@COMCA: Pd Thru:	Fax: BT.NET Redeem Mon BASE AMT	Verified By: h: REDEEM AMT	Prefer Show	rence: v Email on Cert. N v Email on Cert. N REDEEM AMT	ADD?	<

Open HOA Summary

	Welcome NSGTMF NCS Logout
Home Texas Tax	
GALVESTON 💌	60
Tax Maintenance Services	Open HOA Summary
Error Queue	
Order Queue	
Tax Bills	Collector View Open HOA Summary (F8)
Tax Suits	Silviilia
CAD Cross References	
Standard Comments	The Open HOA Summary shows accounts and orders in the list of pending certificates that have been coded to HOA but which have not been completed.
CAD Account Numbers	Leave collector and Sub/HOA blank and click "View Open HOA Summary" to view entire Open HOA Summary
View Affected Orders	Or, enter a collector or a SubiHOA and click "View Open HOA Summary" to view Open HOA Summary for the specified collector or SubiHOA.
HOA Maintenance Services	
Coding Status	- OR -
Code HOA to Order	
Code HOA to CAD Nbrs	CAD Acnt Nbr Billing Detail
Open HOA Summary	
Subdivision / HOA Index	Customer ID Order
HOA Collectors	Enter either a CAD Account Number or a Customer ID and Order and click "Billing Detail" to edit billing line items and comments.
New Subdivisions	
Data Acquisition Services	- OR -
Source File Tracking	
Tax Unit Maintenance	View Email & Fax Log
	😡 Internet 🦓 + 🗮 100% +

Tax Unit Maintenance – View Details

Home Texas Tax						
GALVESTON	Go					
ax Maintenance Services	View Det	ails - Tax U	Init Maintenance			
Error Queue						
Order Queue	Update	Cancel Delete				
Tax Bills			-			
Tax Suits	Unit Code:	M04		Last Update	ed: 03-05-13 by TMF	
CAD Cross References	Nama [*]	BAYCLIFF MUD			Assessing CAD's County Code 0	
Standard Comments	Tau Callastas				Assessing CAD's County Code	
CAD Account Numbers	*	TRISH GIBBONS	3		Actively Collecting Taxes	
View Affected Orders	Address 1 *	COLLECTED BY	COUNTY		Reliable Suit Data	
A Maintenance Services	Address 3				Combined Unit	
Coding Status	Address 2				Calc P & I on Pre 1982 Bills	
Code HOA to Order	Address 3				Apply Partial Payment to Tax?	
Code HOA to CAD Nbrs	Phone	(409)766-2481			Tax Unit Sequence Nbr	
Open HOA Summary	Tay Pate of	0 2923580	ennline to tay Year *	2012	4 - Special	
Subdivision / HOA Index	Dava#		upplies to tax real		File Format Code GGA	
HOA Collectors	Calculation	A	Curr Tax Due in Month	02	Automated Unit	
New Subdivisions	Method				Current Tax Year * 2012	
ta Acquisition Services	Comments	EXEMPTS: HS-C); 065-10,000; DIS-0BONDS APPROV	VED:/	Current and Pack Tax Through Date	
Source File Tracking		,265,000;BONDS	SISSUED:7,265,000DOES NOT ASS	ESS S	03-19-13	
Tax Unit Maintenance		TANUBY FEES.				
	Attorney Fee D	ercent 15.0	Apply Attorny Foote	Current Year Delinquert Tax		
	Start Yea	r Percent	Audit Trail	o current rour beinquent rux		
	2006	15.0	Last Updated 05-22-07 by		Add Atty Fee Delete Atty Fee	

Tax Unit Maintenance

Home Texas Tax						
GALVESTON	Go					
Maintenance Services	Tax Unit M	aintenance				
Fror Queue						
Order Queue						
Fax Bills	Add View D	etail Update I	Rates / Years			
Tax Suits	Format Unit	Code Unit Na	me			
CAD Cross References			Search (F8)			
Standard Comments						
CAD Account Numbers	Format Code	Unit Code	Unit Name 🗇	Tax Year	Tax Rate	Tax Rate Year
View Affected Orders	WHC	M22	BAY COLONY WEST MUD/PAY TO: ASSMTS OF SW	2012	1.0000000	2012
A Maintenance Services	GGA	M04	BAYCLIFF MUD	2012	0.2923580	2012
Coding Status	PPP	P08	BAYOU LAKES #1 PID/PAY TO: ASSMTS OF SW	2013	0.0000000	2013
Code HOA to Order	GGA	M05	BAYVIEW MUD	2012	0.2326000	2012
Code HOA to CAD Nbrs		B18	BC MUD 18/PAY TO: ASSMTS OF SW	2012	0.5200000	2012
Open HOA Summary	000	DOP		2012	0.5500000	2012
Subdivision / HOA Index		FUD	CAMPECRE SHORES FIDIFAT TO, ASSINTS OF SW	2011	0.0000000	2011
HOA Collectors	S16	E16	CED - CLEAR CREEK ISD	2012	0.0000000	2012
New Subdivisions	GGA	E11	CED - DICKINSON ISD	2012	0.0000000	2012
ta Acquisition Services	S12	E12	CED - FRIENDSWOOD ISD	2012	0.0000000	2011
	GGA	E10	CED - GALVESTON ISD	2012	0.0000000	2011
Source File Tracking	0.011					

Code HOA to CAD

						Welcome: NSQT	IF NCS Logou
Home Texas Tax	8						
GALVESTON M	Go						
Error Quouo	Code HOA to CAD Ac	count Number					
Order Queue							
Tax Bille	CAD Account Nbr		Search (F8) Next	Un-Coded CAD			
Tax Suite							
CAD Cross Paforonson	CAD Roll Information						
Standard Commonte	Situs:						
CAD Account Numbers	Legal:						
View Affected Orders	HOAs Coded to the CAD Account N	lumber	Un-Code HOA				
HOA Maintenance Services	SUBDIVISION NAME/BLOCK	HOA			CODER		
Coding Status							
Code HOA to Order							
Code HOA to CAD Nhre							
Code HOA to CAD NDIS							
Subdivision (NOA Index	Sub Name		Search Code HO	View HOA Co	omments		
Subdivision / HOA Index	SUBDIVISION NAME BLOCK	HOA	COLLECTOR CODE	COLLECTOR	CONTACT		
HOA Collectors							
New Subdivisions							
Data Acquisition Services							
Source File Tracking							
Tax Unit Maintenance							
						O Tabaaa d	0 0 1000

ANNEXURE 2: REPORTS

Property Characteristic Report

	TR3, TMF				HARRIS,TX
	DTLM	PROPERTY CHA	RACTERISTICS INC	QUIRY	
	THE INFORMAT	ION BELOW IS TAKE	EN FROM THE APPRAI	SAL DISTRICT FILES.	
	DATA TRA	CE DOES NOT GUAR	ANTEE THE ACCURAC	Y OF THIS DATA.	
CAD# 0	02-198-000-				
DESC L	T 8 BLK 480 SSBB				
SITUS 1	609 SAINT CHARLES ST 00	51			
MAIL 2	B19 BERRY ST APT 1 HOUS	TON TX 77004-4454			
ASSESSED OV	VNER(S)			2	011 ASSESSED VALUES
A	NDOH ELLOINE K			LAND	100,000
				IMPROVEMEN'	T 18,000
				TOTAL VALUE	118,000
		PROPERT	Y INFORMATION		
CLASS	RESIDENTIAL	GAS	YES	ELECTRIC	
LOT SIZE	6 250 00 SO FT	SEWER	PUBLIC	LAND USE	2001
		WATER	PUBLIC	ZONING	
0		IMPROVEME	ENT INFORMATION		¢.
BLDG DESC	SGL FAMILY RESIDE	NCE	BLDG SQ FT	1.082	
YEAR BUILT	1940		ROOF COMP		
NBR STORIES	1		ROOF TYPE		
TOTAL ROOMS	5		EXTERIOR WALL	CONCRETE/FF	AME
BEDROOMS	2		FOUNDATION	CRAWL SPACE	
BATHS (F + H)	1		HEATING	NONE	
UNITS	1		COOLING	NONE	
POOL			PARKING	ON AND OFF S	TREET
		SALE I	NFORMATION		
	SALE DATE		AMOUNT	PRICE PER SOFT	
	02/01/2000		68,000.00	62.85	
		TAX IN	FORMATION		1
U.D.O.D.OT.O.				THERE	ESTIMATED TAX
JURISDICTIONS	5		TAX YEAR	TAX RATE	W/O EXEMPTIONS
ISD - HOUST	UN	V ACCECCO	2011	1.1567000	1,364.91
HARRIS CO	PAY TO:DON SUMNERS TA	AX ASSESSO	2011	0.6365610	751.14
AUGSTON C	UNMUNITY COLLEGE	OLINTY	2011	0.0972220	114.72
EAST DOWN	TOWN VOLL BT MARKIS C	GUNIT	2011	0.6367300	/03./3
EAST DOWN	I OTIN MING		2010	0.1230000	147.5U
				IUTAL	3,132.00

Tax Order Report

DSW, PROFESSIONAL RE	TAX-"ED	T-TEST", TR3, TMF	GALVESTON,TX
06/22/2012 08:25AM DTLM		TAX ORDER REQUEST	
ORDER: HOACODIN	IG-02	BRANCH:	CLOSER:
	***	THIS IS NOT A TAX CERTIFICATE ****	
	**** TAX (ORDER REQUEST REQUIRES RESEARC	H ****
	2000	CAD ACCOUNT NUMBER SUMMARY	507.40
4877-0003000-	6570-0000-	-000-	

	SUMMARY OF ALL	ACCOUNT(S)		
	SUMMARY OF	CURRENT YEAR	SUMMARY OF	ALL TAXES DUE
	TAX YEAR	BASE TAX	DUE 06/12	DUE 07/12
GALVESTON COUNTY	2011	1,995.29	0.00	0.00
CITY OF LEAGUE CITY	2011	1,580.79	0.00	0.00
SD- CLEAR CREEK	2011	3,516.18	0.00	0.00
LEAGUE CITY RZ 01(PID#1)	2011	0.00	5,178.63	5,202.95
CITY OF FRIENDSWOOD	2011	534.60	0.00	0.00
ISD - FRIENDSWOOD	2011	1,238.23	0.00	0.00
CLEAR CREEK DD		0.00	0.00	0.00
GC CONSOLIDATED DD #8	2011	126.81	0.00	0.00
NEW SUB FOR 2012	2011	0.00	0.00	0.00
TOTAL TAX	100 100	8,991.90	5,178.63	5,202.95
*******	COMMENTS CAUTION	***** READ BEFORE C	LOSING ******	
GALVESTON COUNTY CITY OF LEAGUE CITY ISD- CLEAR CREEK LEAGUE CITY RZ 01(PID#1)/A CITY OF FRIENDSWOOD ISD - FRIENDSWOOD GC CONSOLIDATED DD #8 CLEAR CREEK DD	 EXEMPTS: HS-20%/5,000; O65- RATE INCLUDES COUNTY(.612 EXEMPTS: HS-10%; O65-45,000 EXEMPTS: HS-5% + 15,000; OV SEND PAYMENTS TO THE ATT OFFICE. ***PHASE 1 ASSESSMENT BAI ***PHASE 2 ASSESSMENT BAI EXEMPTS: HS-20%; O65-25,000; EXEMPTS: HS-00%; O65-25,000; EXEMPTS: HS-0; O65-25,000; DOES NOT ASSESS STAND BI NOW COMBINED WITH GC CO 	60,000; DIS-60,000 (945) RD & FLOOD(008 0; DIS-45,000 //ER65-28,330; DIS-28,3 N OF CLEAR CREEK IS SED ON \$1.32 PER SC SED ON \$1.68 PER SC 0; DIS-25,000 200; DIS-20,000 NS-25,000 Y FEES NSOLIDATED DRAINA(855) 30 3D TAX 2 FT** 2 FT** 3E #8	IGA T01 S16 C40
CAD# 4877-00030	00-		9	DSW/TMF
DESC MAGNOLIA CREEK 9 ABST/SUB ID 548	SEC 4 PH 2 (2002) ABST 607, BLOCK	3, LOT 19, ACRES 0.25	5	Contrain
ACREAGE 0.259				
SITUS BLUE CYPRES	SS LN			
MAIL BLUE CYPRES	S LN LEAGUE CITY TX			
ASSESSED OWNER(S)			2011 ASS	SESSED VALUES
ROOKER JAY R &	LISA		LAND	49.020
			IMPROVEMENT	238,920
			TOTAL VALUE	287,940

Tax Entity Report

DSW, PROFESSIONAL RE TAX-"	EDT-TEST", TR	3, TMF		GAL	VESTON,TX
06/22/2012 08:25AM DTLM	TAX O	RDER REQUEST	t i		
ORDER: HOACODING-02	BRANC	H:		CLOSER:	
	TAX ENT	TY INFORMATION			
GALVESTON COUNTY		1	PAYMENTS AS C	DF	05/07/2012
P O BOX 1169 GALVESTON, TX 775				11 TAX RATE	0.6218000
PHONE 409-766-				W/O EXEMPT	563.23
EXEMPTIONS NONE	YR	BASE TAX	BASE DUE	DUE 06/12	DUE 07/12
	11	563.23	0.00	••••	PAID 01/19/12 ***
á l	SUBTOTAL	563.23	0.00	0.00	0.00
CITY OF FRIENDSWOOD			PAYMENTS AS C	DF	05/07/2012
COLLECTED BY COUNTY				11 TAX RATE	0.5902000
PHONE 409-766-				W/O EXEMPT	534.60
EXEMPTIONS NONE	YR	BASE TAX	BASE DUE	DUE 06/12	DUE 07/12
	11	534.60	0.00	••••	PAID 01/19/12 ***
	SUBTOTAL	534.60	0.00	0.00	0.00
ISD - FRIENDSWOOD			PAYMENTS AS C	DF	05/07/2012
P. O. BOX 31 FRIENDSWOOD, TX 77546				11 TAX RATE	1.3670000
PHONE 281-482-				W/O EXEMPT	1,238.23
EXEMPTIONS NONE	YR	BASE TAX	BASE DUE	DUE 06/12	DUE 07/12
AC# R146701	11	1,238.23	0.00		PAID 01/31/12 ***
	SUBTOTAL	1,238.23	0.00	0.00	0.00
CLEAR CREEK DD			PAYMENTS AS C	DF	05/07/2012
NOT ASSESSING FOR 2011 X				11 TAX RATE	0.0000000
PHONE 281-482-					
••• D	ATA FOR THIS JUP	RISDICTION IS UNA	VAILABLE ***		
	*** MANUAL RE	SEARCH REQUIRE	ED ***		
GC CONSOLIDATED DD #8		. 5	PAYMENTS AS C	DF	05/07/2012
P. O. BOX 31 FRIENDSWOOD, TX 77546 NE	W FOR 2002			11 TAX RATE	0.1400000

P. O. BOX 31 FRIENDSWOOD, TX 77546 NEW FOR 2002 11 TAX RATE PHONE 281-482- W/O EXEMP EXEMPTIONS NONE YR BASE TAX BASE DUE DUE 06/ AC4 B14201 11 12885 0.00	E 0.1400000 *T 126.81
YR BASE TAX BASE DUE DUE 06/ AC# P146701 11 128.85 0.00	
AC# 0146701 11 126.01 0.00	HO DUE OTHO
AC# P146701 11 126.81 0.00	12 DUE 0//12
11 120.01 0.00	*** PAID 01/31/12 ***
SUBTOTAL 126.81 0.00 0.0	00.00
NEW SUB FOR 2012 PAYMENTS AS OF	12/19/2011
2012 SUBDIVISION X 11 TAX RATE	E 0.0000000
EXEMPTIONS NONE YR BASE TAX BASE DUE DUE 06/	/12 DUE 07/12
11 0.00 0.00	*** NO TAX DUE ***
*** ERROR *** TAX BILL INFORMATION OVER 15 DAYS OLD - REQUIRES RESEARCH ***	
SUBTOTAL 0.00 0.00 0.0	00.00
*** ERROR *** TAX BILL FOR ENTITY D05 IS UNAVAILABLE - REQUIRES RESEARCH ***	

Tax Order with Entity

M, JANES TEST COMPANY, RBM, JDS		GALVESTON, TX
05/14/2012 07:35AM DTLM	TAX ORDER REQUEST	
ORDER: 04172012-009	BRANCH:ABC	CLOSER:
2	**** THIS IS NOT A TAX CERTIFICATE ****	
	TAX ORDER REQUEST REQUIRES RESEARC	н ••••
	CAD ACCOUNT NUMBER SUMMARY	
3724-TEST-CASE-001+		

			SUMMARY	OF ALL ACCOUNT	r(S)		
			SU	MMARY OF CURRE	INT YEAR	SUMMARY O	FALL TAXES DUE
			TAX YEA	IR E	ASE TAX	DUE 05/12	DUE 06/12
GALVESTO	N COUNTY		201	11	2,433.10	2,749.40	2,798.07
CITY OF FR	IENDSWOOD		201	11	2,309.45	2,609.68	2,655.87
CLEAR CR	EEK DD		201	11	0.00	0.00	0.00
GC CONSO	LIDATED DD #8		201	11	547.82	619.04	629.99
TOTAL TAX					5,290.37	5,978.12	6,083.93
Ĩ.	(**	COM	IENTS CAUT	ION ***** REAL	D BEFORE CLOSING	3	
CAD# 3724	TEST-CASE-001-	- AC	CT CREATED FOR TES	TING PURPOSES O	ONLY. MISSING ISD B	ILL.	
GALVESTO	NCOUNTY	- EX	EMPTS: HS-20%/5,000	: 065-60,000; DIS			
	ENDRINGOD	RA EV	EVIDES COUNT	T(.012945) RD & 1			
OLEAD OFFR	IENUSWOOD	- = -	EMPTS: HS+20%; 065+	28,000; 018-28,00	<u>N</u>		
CLEAR CR	EEK DU	- 00	ES NUT ASSESS STAT	O CONPOLIDATE			
	IDATED DD HR	INU EX	EMOTE: HE & OFF OF	CONSOLIDATE	D DRAINAGE #6		
GC CONSC	LIDATED DD #0	7 EA	EMP13: H3-0; 000-20;	000, 013+23,000			×
X.						GGA D05 C37 D08 D	800 800 800 800
CAD#	3724-TEST-CASE	E-001-					RBM/JDS
DESC	ACCT CREATED TO	TEST US3724	NO COUNTY OR ISD B	ILL			
ACREAGE	1.330						
SITUS	1 TEST CASE LN	NUTRICK COLUMN	00000000				
MAIL	1 MASTER TESTING	S SAN ANTON	IO TX 78221				
ASSESSED	OWNER(S)	1.1772				2011 AS	SESSED VALUES
	TECHNICAL QA AN	ALYSIS			LAN	0	123,280
					IMP	ROVEMENT	268,020
-					TOT	AL VALUE	391,300
3			TAX ENTI	TY INFORMATION			
GALVES	TON COUNTY				PAYMENTS AS	OF	03/27/2012
POBOX 11	69 GALVESTON, TX 77	553				11 TAX RATE	0.6218000
PHONE 409	-766-					W/O EXEMPT	2,433.10
EXEMPTION	SNONE		YR	BASE TAX	BASE DUE	DUE 05/12	DUE 06/12
			11	2,433.10	2,433.10	2,749.40	2,798.07
*** ERROR *	** TAX BILL INFORMAT	ION OVER 15	DAYS OLD - REQUIRES	B RESEARCH ***			
			SUBTOTAL	2,433.10	2,433.10	2,749.40	2,798.07

HOA Request Report

	HUA REQUEST	TAX SYSTEM
Subdivision: A0710 T.J.STANSBUR	8100	sk:
HOA Name: ESTATES OF DRY CREEK H	OA Collector:	
HOA Address: 14023 DRY CREEK RANC	H CYPRESS TX 7742	
Contact: PAUL HERMAN	Phone: (281) 373- Fax	e
Contact Preference:	Email Address:	1000 C C C C C C C C C C C C C C C C C C
	VERNIEF	
Customer: SIT - PROFESSIONAL RE TA	X SERVICE	TME 03-08-13 2:27 AM
Closer: DR Branch: 05	Open Date: 01-02-13	HOA Request Date: 01-02-13
Buyer: RILEY, DARLENE A		
eller: RILEY DARLENE A &		
AD Account Number: 045-014-000-0	035	
roperty Address: 14022 DRY CREEK	RANCH RD	
egal Description: TR 4Y ABST 710 T J STA	NBURY	
Assessments Billed (Check one): M Billing Dates: 02 / <u>16 / 13</u>	To 03 / 15 / 13	ANNUAL CANNUAL CFISCAL
ADVANCE DO NOT TO A DATE OF THE OWNER	A DECK AND A	
Assessments: Houston HOA	Account Paid Through: FA	
Assessments: <u>Houston HOA</u>	Account Paid Through: <u>FA</u>	
Assessments: <u>Houston HOA</u>	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m	onth; after <u>15%</u>
Assessments: <u>Houston HOA</u> If Due: <u>Suit</u> Late Charges: <u>10%</u> Legal Fees: <u>1023.00</u>	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m	onth; after <u>15%</u>
Assessments: <u>Houston HOA</u> If Due: <u>Suit</u> Late Charges: <u>10%</u> Legal Fees: <u>1023.00</u> Special Asmt: <u>227.00</u>	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m	onth; after <u>15%</u>
Assessments: <u>Houston HOA</u> If Due: <u>Suit</u> Late Charges: <u>10%</u> Legal Fees: <u>1023.00</u> Special Asmt: <u>227.00</u> Transfer Fee: <u>110.00</u>	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m Payable to: <u>FA</u>	onth; after <u>15%</u>
Assessments: <u>Houston HOA</u> If Due: <u>Suit</u> Late Charges: <u>10%</u> Legal Fees: <u>1023.00</u> Special Asmt: <u>227.00</u> Transfer Fee: <u>110.00</u> Refinance fee: <u>129.00</u>	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m Payable to: <u>FA</u> Payable to: <u>FA</u>	onth; after <u>15%</u>
Assessments: Houston HOA If Due: Suit Late Charges: 10% Legal Fees: 1023.00 Special Asmt: 227.00 Transfer Fee: 110.00 Refinance fee: 129.00 Resale Fee: 111.00	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m Payable to: <u>FA</u> Payable to: <u>FA</u>	onth; after <u>15%</u>
Assessments: <u>Houston HOA</u> if Due: <u>Suit</u> Late Charges: <u>10%</u> Legal Fees: <u>1023.00</u> Special Asmt: <u>227.00</u> Transfer Fee: <u>110.00</u> Refinance fee: <u>129.00</u> Resale Fee: <u>111.00</u> Dther Fees: <u>79.00</u>	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m Payable to: <u>FA</u> Payable to: <u>FA</u> Payable to: <u>FA</u> Description: <u>FA</u>	onth; after <u>15%</u>
Assessments: <u>Houston HOA</u> if Due: <u>Suit</u> Late Charges: <u>10%</u> Legal Fees: <u>1023.00</u> Special Asmt: <u>227.00</u> Transfer Fee: <u>110.00</u> Refinance fee: <u>129.00</u> Resale Fee: <u>111.00</u> Other Fees: <u>79.00</u> Insurance Fees: <u>245.00</u>	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m Payable to: <u>FA</u> Payable to: <u>FA</u> Payable to: <u>FA</u> Covers Billing Dates: <u>FA</u>	onth; after <u>15%</u>
Assessments: Houston HQA if Due: <u>Suit</u> Late Charges: <u>10%</u> Legal Fees: <u>1023.00</u> Special Asmt: <u>227.00</u> Transfer Fee: <u>110.00</u> Refinance fee: <u>129.00</u> Resile Fee: <u>111.00</u> Other Fees: <u>79.00</u> Insurance Fees: <u>245.00</u> Total Due: <u>1924.00</u>	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m Payable to: <u>FA</u> Payable to: <u>FA</u> Payable to: <u>FA</u> Description: <u>FA</u> Covers Billing Dates: <u>FA</u>	onth; after <u>15%</u>
Assessments: Housion HOA if Due: Suit Late Charges: 10% Legal Fees: 1023.00 Special Asmt: 227.00 Transfer Fee: 110.00 Refinance fee: 129.00 Resale Fee: 111.00 Other Fees: 79.00 Insurance Fees: 245.00 Total Due: 1924.00 Insurance Agency/Agent: Williams Ar	Account Paid Through: <u>FA</u> Figures Good Through: Late Charge \$ <u>100</u> per m Payable to: <u>FA</u> Payable to: <u>FA</u> Payable to: <u>FA</u> Covers Billing Dates: <u>FA</u> Payable to: <u>FA</u>	onth; after <u>15%</u>

.com	Any questions please call [281] 890-
Free Fax: (866) 646-	Toll Free Phone: (800) 869-
	Free Fax: (866) 646-

ANNEXURE 3: SAMPLE PROGRAM CODE

<%@ Page Language="C#"</pre>

MasterPageFile="~/Forms/TTM/Index" AutoEventWireup="true"

Inherits="Sales_frmHOADtls" Title="HOA Details"

EnableEventValidation="false"

CodeBehind="frmHOAdtls.aspx.cs" %>

<%@ Register Src="../../Controls/Calendar.ascx"</p>

TagName="Calendar" TagPrefix="uc1" %>

<%@ Register Src="../../UserControl/MessageList.ascx"</p>

TagName="MessageList" TagPrefix="uc2" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head"

runat="Server">

<mark><%</mark>-- CSS LINKS--<mark>%></mark>

k href="../../CSS/jquery.ui.all.css" rel="stylesheet"

type="text/css" />

khref="../../CSS/themes/base/jquery.ui.base.css"

rel="stylesheet" type="text/css" />

khref="../../CSS/jquery-ui-1.8.2.custom.css"

rel="stylesheet" type="text/css" />

k href="../../CSS/WisCss.css" rel="stylesheet"

type="text/css" />

k href="../../CSS/jquery.ui.theme.css" rel="stylesheet"

type="text/css" />

<script src="../../JavaScripts/jquery.min.js"

type="text/javascript"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></

<script src="../../JavaScripts/jquery-ui.min.js"

type="text/javascript"></script></script></script></script>

<script src="../../JavaScripts/CommonForAll.js"

type="text/javascript"></script></script></script></script>

<script src="../../JavaScripts/jquery.blockUI.js"

type="text/javascript"></script>

<script src="../../JavaScripts/CountyStateCityUserControl.js"

type="text/javascript"></script></script></script></script>

<script src="../../JSConstants/GlobalConstants.js"

type="text/javascript"></script></script>

<script src="../../JSConstants/QueryConstants.js"

type="text/javascript"></script></script></script>

< **--CALENDER CONTROL--

<script src="../../JavaScripts/jquery.ui.datepicker-en-GB.js"

type="text/javascript"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></

<script src="../../JavaScripts/jquery.ui.datepicker.js"

type="text/javascript"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>

<script src="../../JavaScripts/jquery.ui.datepicker.min.js"

type="text/javascript"></script></script></script></script>

<script src="../../JavaScripts/CalendarPlugIn.js"

type="text/javascript"></script></script></script></script>

<script src="../../JavaScripts/jquery-ui-1.8.2.custom.min.js"

type="text/javascript"></script></script></script>

<script src="../../JavaScripts/DynamicFormGeneration.js"

type="text/javascript"></script></script></script></script>

<script src="../../JavaScripts/jQuery.notify.js"

type="text/javascript"></script></script></script></script>

<script src="../../JavaScripts/Validations.js"

type="text/javascript"></script></script></script></script>

<<mark>%</mark>-- AUTOCOMPLETE--<mark>%></mark>

<script src="../../JavaScripts/jquery.ui.core.js"

type="text/javascript"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></

<script src="../../JavaScripts/jquery.ui.widget.js"</pre>

type="text/javascript"></script></script></script>

<script src="../../JavaScripts/jquery.ui.position.js"

type="text/javascript"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></

<script src="../../JavaScripts/jquery.ui.autocomplete.js"

type="text/javascript"></script></script></script></script>

<style type="text/css">

.invisible

{

display: none;

}

</style>

<script type="text/javascript" language="javascript">

```
CONST_HOADETAILS = ";
```

```
CONST_ADDRESSID = ";
```

var BoolDestination = true;

```
var Value = "";
var Edit = false;
$(document).ready(function()
{
  $("[id$=btnBrowse]").click(function()
  {
    //CLEAR MESSAGE -THIS MESSAGE IS TEMPORARY
    var errorMsg = notifyError();
    errorMsg.invisible("divError");
    //CREATE UPDATE FORM USING FORM BUILDER
    var add = FormBuilder("HOADetails", "HOADetails");
    //Create Header of Table
    var Header = [];
    Header[0] = "HOA Id.";
    Header[1] = "Legal";
    Header[2] = "Situs";
    Header[3] = "Unit";
    Header[4] = "Select";
    add.table("ListOfHOADetails", 5, Header);
```

add.buttonAndCancel("Add", "submit", "btnNotifyAdd",

AddParts);

add.notify();

\$('#ListOfHOADetails').addClass('table');

//Create Table which contains Requisition

CreateTableForHOA();

});//End of btnBrowse button click event.

\$("[id\$=btnGetAddress]").click(function()

{

var bool = checkCustomer();

```
if(bool == 1)
```

{

//CLEAR MESSAGE -THIS MESSAGE IS TEMPORARY

var errorMsg = notifyError();

errorMsg.invisible("divError");

//CREATE UPDATE FORM USING FORM BUILDER

var add = FormBuilder("AddrDetails", "Address Details");

//Create Header of Table

var Header = [];

Header[0] = "Address ID";

Header[1] = "Type";

Header[2] = "County";

Header[3] = "State";

Header[4] = "City";

Header[5] = "Address";

Header[6] = "County Code";

Header[6] = "Select";

add.table("ListOfAddresses", 7, Header);

add.buttonAndCancel("Add", "submit", "btnNotifyAdd",

AddAddresses);

add.notify();

\$('#ListOfAddresses').addClass('table');

//Create Table which contains Requisition

CreateTableForAddress();

var List = \$("[id\$='MessageList1_blMessageList']")[0];

\$("[id\$='MessageList1_blMessageList']").hide();

}//end of if condition.

else if(bool == 0){

BindMessageToList();

}//end of else condition.

});//End of btnGetAddress button click event.

});//End of \$(document).ready