

PROJECT REPORT
ON
BILLING SYSTEM

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CAREER COURSES (IMCC), PUNE-411029

2012-2013

ACKNOWLEDGEMENT

I present with pride and pleasure the project report of “Accounting System” aimed to the supplement has required under the regulation of University of Pune.

Firstly, I would like to thank Dr.V.H.Inamdar(Director,IMCC) & Prof. Dr.Santosh Deshpande(HOD) for their guidance throughout the course of development of the project. I thank my project advisor Mrs.Manasi S.Bhate for her continuous support in this project. She was always there to listen and give advice. She showed me different ways to approach a problem and the need to be persistent to accomplish any goal.

I also express my special thanks to internal project advisor Mrs. Shilpa Parlikar & Mrs. Jayashree Patil for being a constant source of inspiration & assistance in the all phases of project work. I am thankful to external project advisor Mr.Shrikant Mhaske for providing me his valuable time for the guidance support. Finally, I am extremely thankful to all teaching and non-teaching staff without whom this project would have been a distant reality.

(Shreya Sinha)

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CHAPTER - 1

INTRODUCTION

1.1 COMPANY PROFILE

Technotronix 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. It has consulting practice and service oriented delivery with experienced IT professionals in Software Engineering, 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.

Technotronix 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.

1.2 EXISTING SYSTEM

At present there is no particular software used in the firm. All the basic transactions are carried out manually or using Tally. Existing system thus holds no proper storage of data. Multiple transactions are carried out in a day and no recording of transaction is done.

There is also no specific user to use the system and generate proper result. Thus, it affects the stock as well as the inaccuracy in the accounts.

The manual system does not guarantee any responsibility on management of data

NEED FOR SYSTEM

Technology has always worked as an advantage for the people and minimized their work to an extent

The need for the system arises due to following reasons:

- To maintain and manage daily transactions so that any data can be fetched easily.
- Save time by easy and systematic recording of data. It can save data from loss or misinterpretation.
- Storage of records is easy and bundles of records can be stored logically.
- Data can be prevented from unauthorized access.

1.3 SCOPE OF WORK

The software is required to basically maintain 4 modules which are company, supplier, customer and accounts. The software will store all details related to the company and its registration. It is a standalone system with one or more than one user.

The system will manage all the manual work in a systematic way to have proper records. The purchase order is generated and the stock is updated through the system.

All the sales order is taken and through the system. Stocks should be timely updated and the accounts are recorded after every transaction.

Reports are required on monthly basis.

1.4 OPERATING ENVIRONMENT

HARDWARE

RAM: 500mb and above

Processor: Intel Pentium IV and above recommended

SOFTWARE

Front end: Java swing

Back end: MySql

Operating system: Windows 2000 or above

1.5 TECHNOLOGY USED

JAVA SWING

Swing is the primary Java GUI widget toolkit. It is part of Oracle's Java Foundation Classes (JFC) — an API for providing a graphical user interface (GUI) for Java programs.

Swing was developed to provide a more sophisticated set of GUI components than the earlier Abstract Window Toolkit (AWT). Swing provides a natively look and feel that emulates the look and feel of several platforms, and also supports a pluggable look and feel that allows applications to have a look and feel unrelated to the underlying platform. It has more powerful and flexible components than AWT. In addition to familiar components such as buttons, check boxes and labels, Swing provides several advanced components such as tabbed panel, scroll panes, trees, tables, and lists.

Unlike AWT components, Swing components are not implemented by platform-specific code. Instead they are written entirely in Java and therefore are platform independent. The term "lightweight" is used to describe such an element.

MySQL

MySQL is a relational database management system (RDBMS), and ships with no GUI tools to administer MySQL databases or manage data contained within the databases. Users may use the included command line tools or use MySQL "front-ends", desktop software and web applications that create and manage MySQL databases, build database structures, back up data, inspect status, and work with data records. The official set of MySQL front-end tools, MySQL Workbench is actively developed by Oracle, and is freely available for use.

It is the most trusted and depended upon open source database platform in use today. As such, 9 out of the top 10 most popular and

highly varchar trafficked websites in the world rely on MySQL primarily due to its ubiquity across heterogeneous platforms and application stacks and for its well varchar known performance, reliability and ease of use. MySQL 5.6 builds on this momentum by delivering across the board improvements designed to enable innovative DBAs and Developers to create and deploy the next generation of web, embedded and Cloud/SaaS/DaaS applications on the latest generation of development frameworks and hardware platforms.

CHAPTER - 2

PROPOSED SYSTEM

2.1 PROPOSED SYSTEM

The proposed system is the automation of manual system of the firm. The proposed system will reduce the work effort and data loss issues. It will manage all the processes related to purchase of hardware, sales, stock and the billing. It will maintain the records properly and accurately. It records the information of the purchases and sales. It allows the user to add supplier and customer details. The proposed system provides the whole information at a single place like the purchases and sales made and also the pending and paid bills. In the old system it was very difficult to fetch the record and analyze, but here the user can get the reports and analyze the things properly and accurately. The bills are generated more quickly.

MODULE WISE DESCRIPTION:

1. COMPANY

It accepts all the details of the company like name, owner name, address, tax no etc

It creates admin/user for the system and the user can further create more users with access limitation who can use the system.

The admin has the rights to activate or deactivate any user's account.

It also stores the access time of all the users.

2. SUPPLIER

Supplier is the dealer who acts as the seller to the company.

The system will maintain the supplier's communication details and the default products supplied by them.

The admin will create purchase order for the minimum stock level products and then the purchase order is sent to the supplier.

When the order is delivered, the admin enters the new products into the system and the bill details(stock receipt entry) which is given by the supplier

The purchase journal is generated by the admin as per the bill and the payment is made to the supplier.

User can also view due payments and products.

3. CUSTOMER

All the customer/client communication details are entered into the system.

Customers give sales order to the user.

Sales order is generated by the user as per service description.

The user then provides the products and generates the bill.

The copy of bill i.e. invoice is kept by the user and the bill is given to customer.

The customer makes the payment.

Stocks are updated and cash/bank journals are prepared.

4. ACCOUNTS

With the purchase, bank journal, cash journal and sales invoice the monthly report of credit and debit is generated.

Account balance can be accessed after every transaction.

2.2 OBJECTIVES OF SYSTEM

The main objectives of the system are:

- To reduce paper work. In this computer world where mass storage is possible, the software can store all the data into database and can be copied or transferred easily.
- Data are stored in the database for proper storage of data so that no data loss occurs.
- User need not study any previous records to generate a new one. All the data are automatically updated and stored so that whenever any record is fetched, reports based on updated records are generated.
- Easy sorting and fast retrieval of data is possible.
- Report generation is automatic and updated as well.

2.3 USER REQUIREMENTS

SERIAL No.	REQUIREMENT	DESCRIPTION
1	Automatic	System should contain more Of automatic work rather than manual work.
2	Record Searching	Searching of records should Be done easily.
3	Reflection of changes	If changes are to be made in one record then they have to be reflected in other required fields.
4	Report Generation	Report should be generated easily and fast.
5	Storing transactions of	All the transactions should be stored in the database in the proper sequence.
6	Interactivity	The system should be interactive.
7	Security of information	There should be security of data in the system.

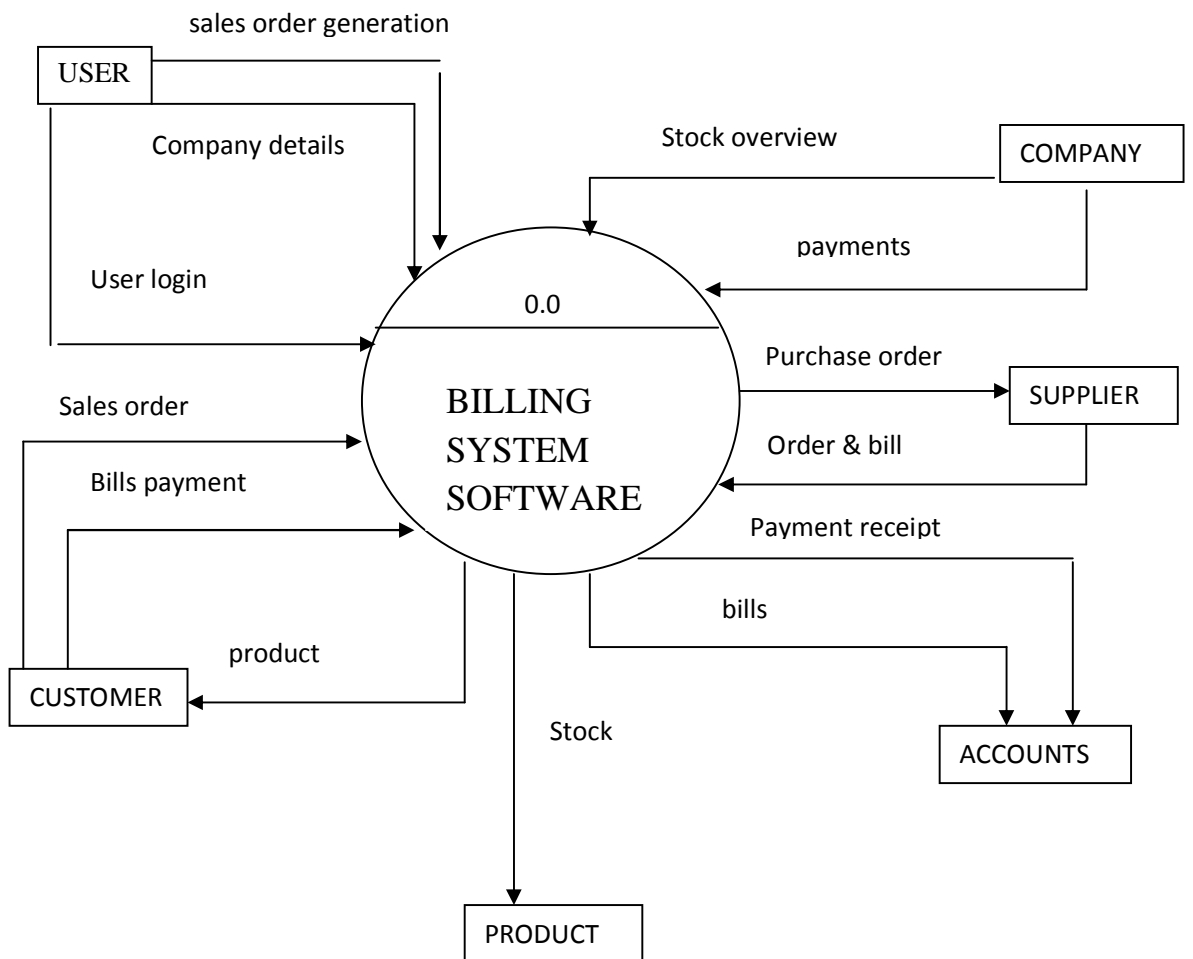
CHAPTER - 3

ANALYSIS

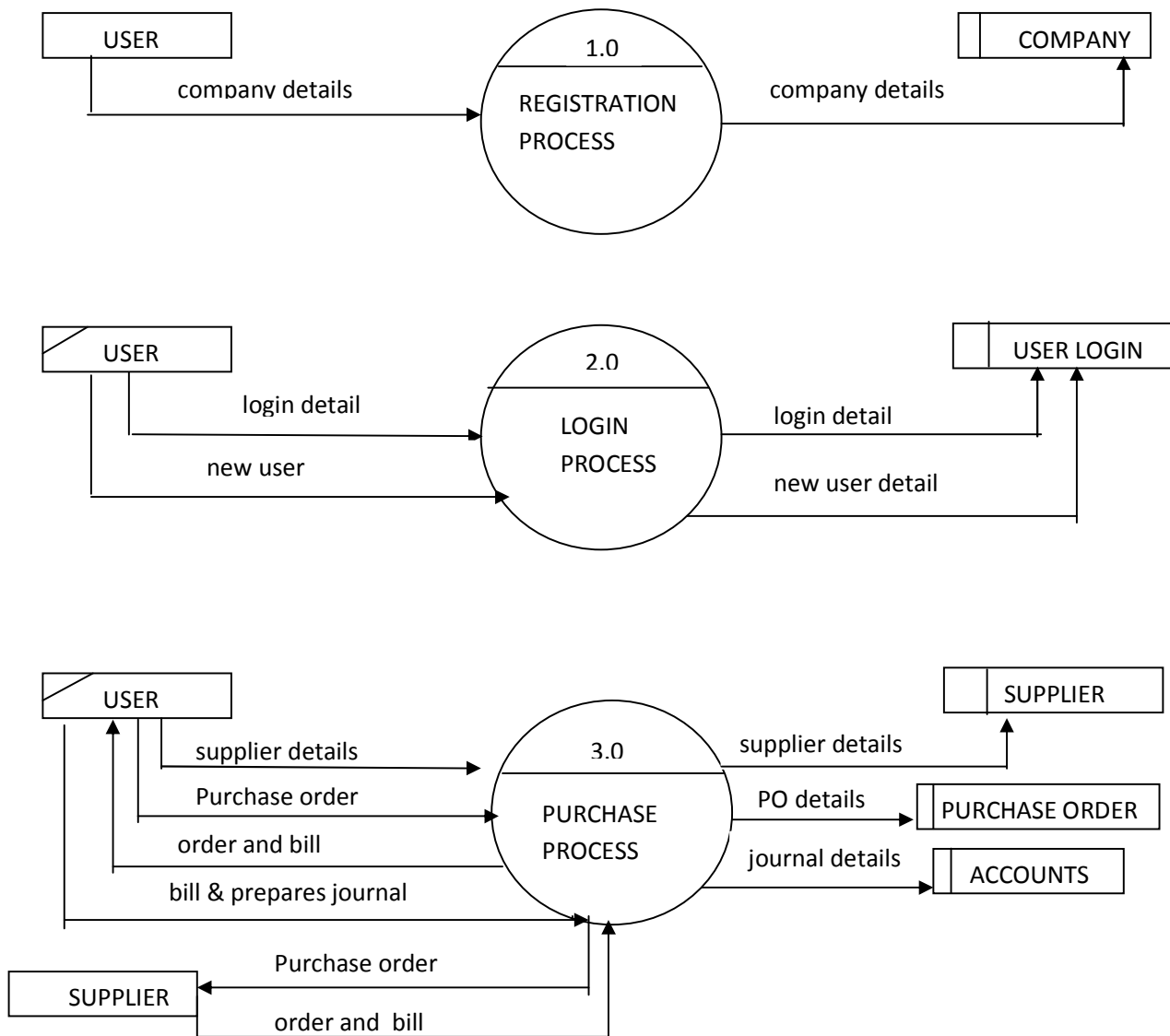
&

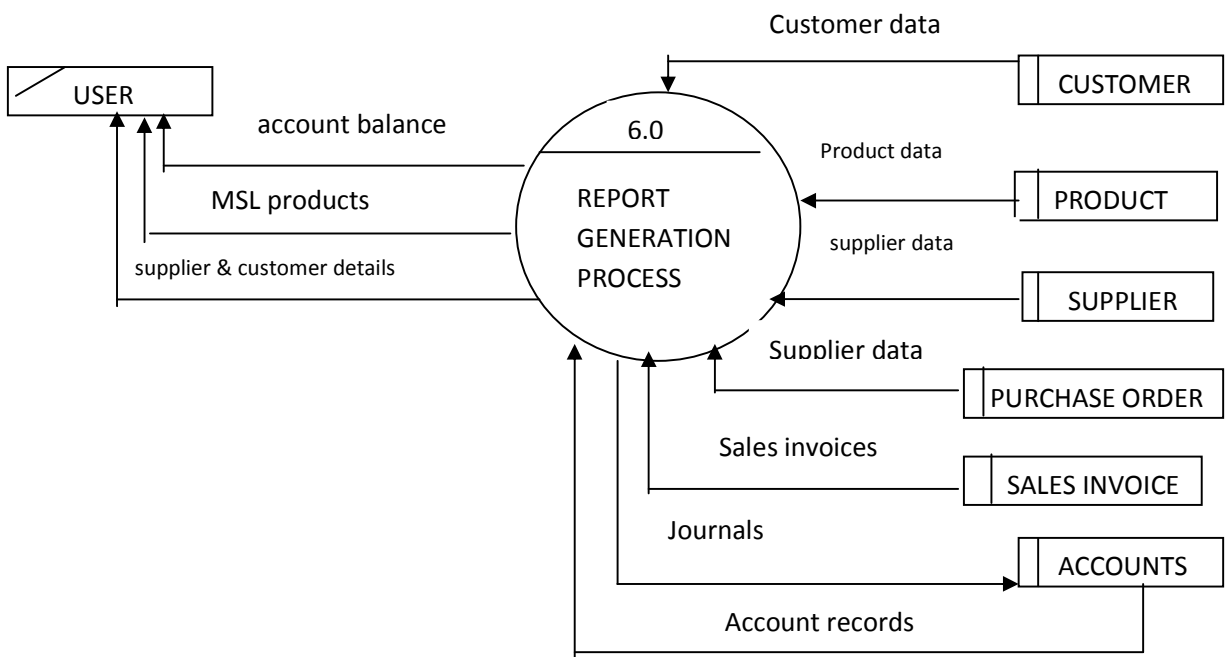
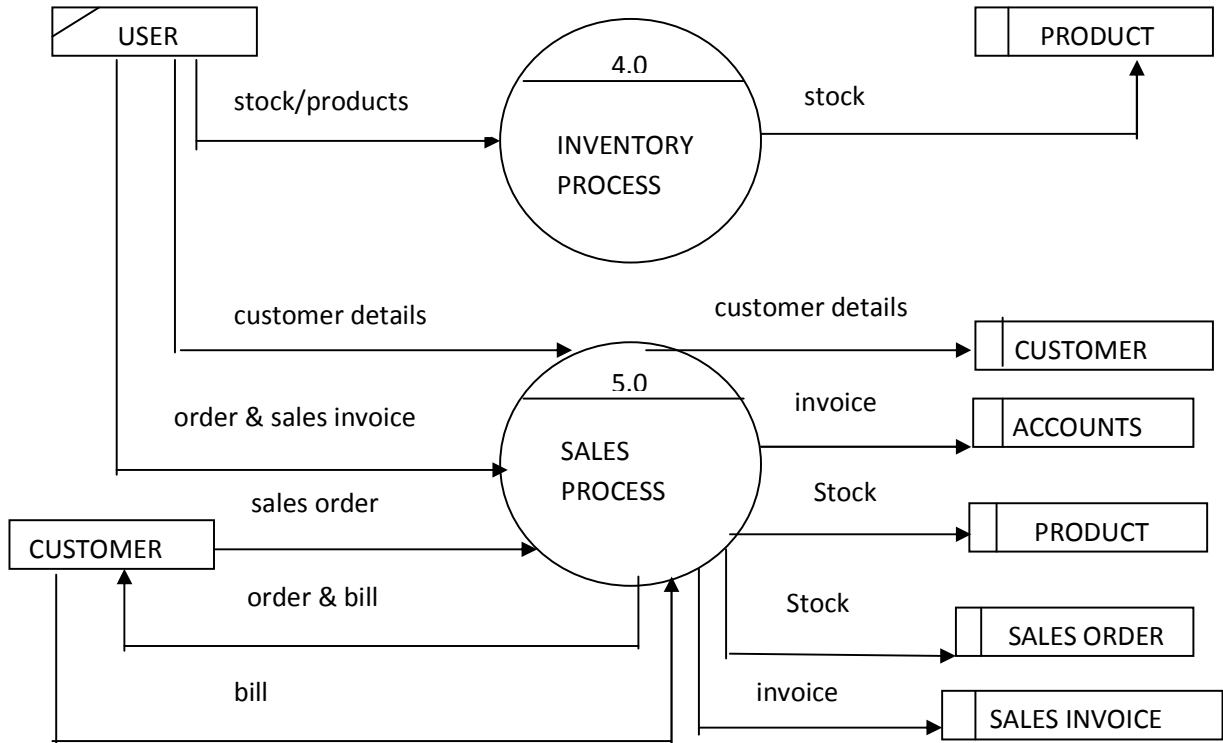
DESIGN

3.1 CONTEXT LEVEL DIAGRAM

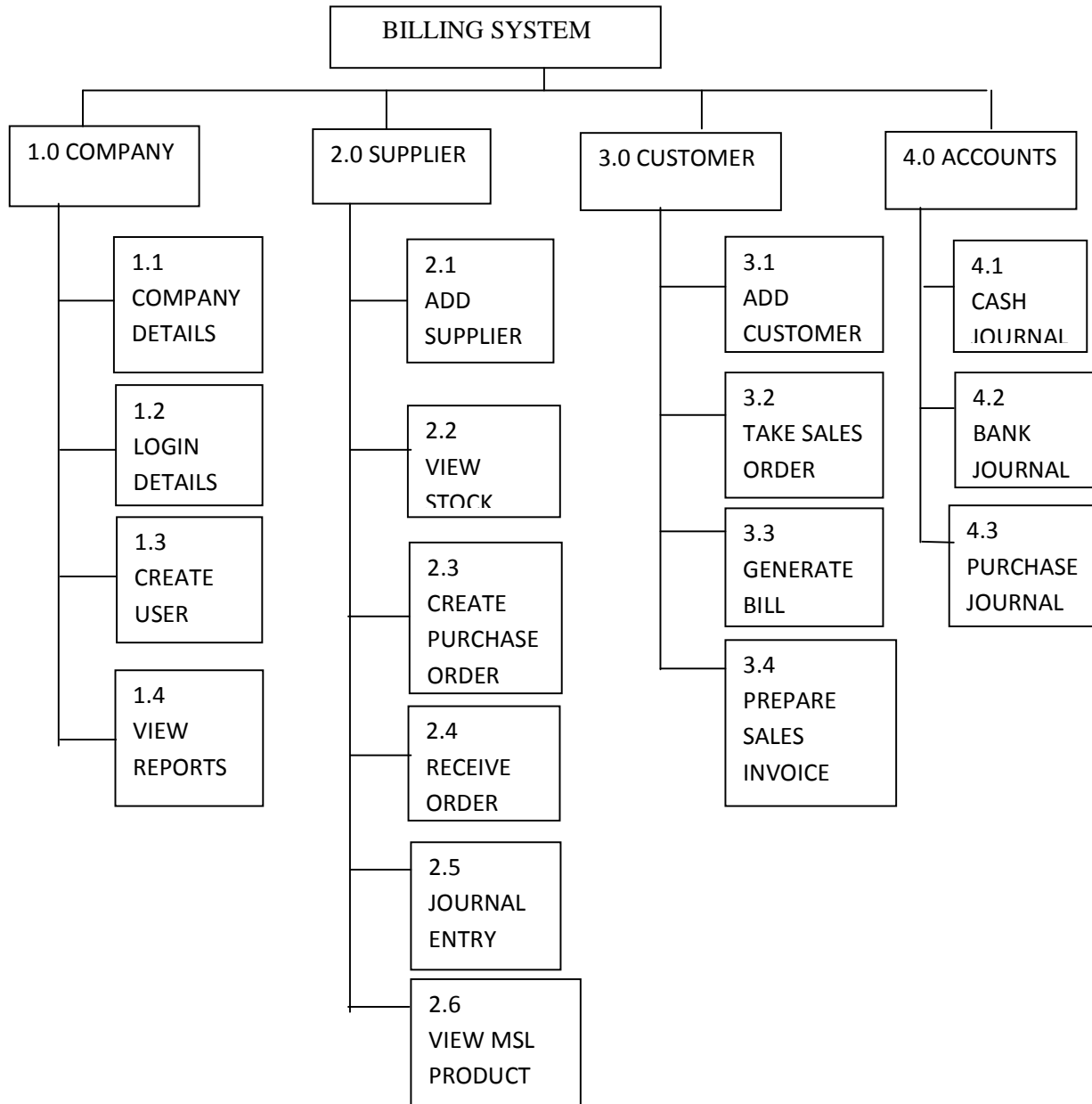


3.1 DATA FLOW DIAGRAM (DFD)

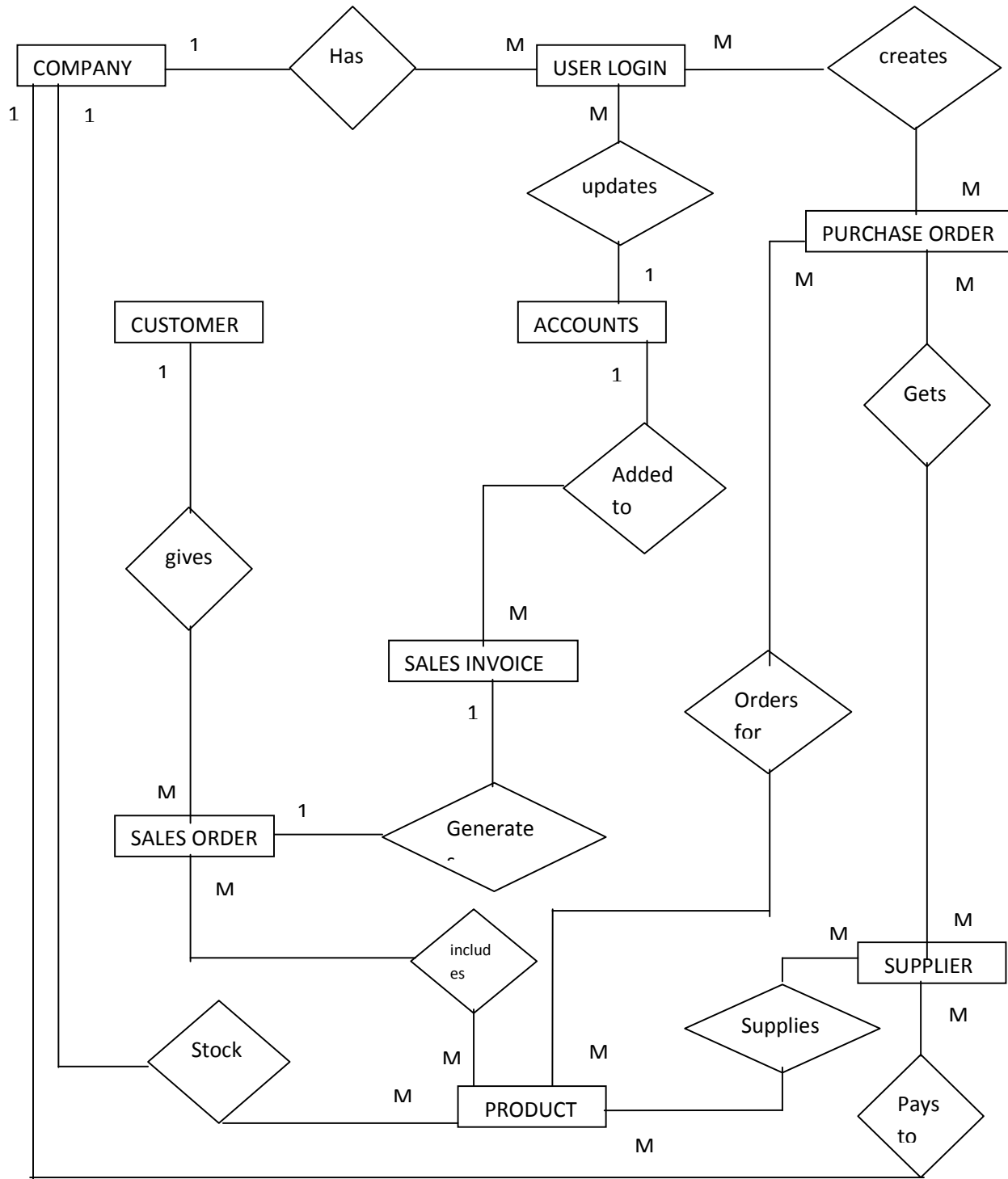




3.2 FUNCTIONAL DECOMPOSITION DIAGRAM



3.3 ENTITY RELATIONSHIP DIAGRAM (ERD)



3.4 DATA DICTIONARY

Field Name	Data type	Width	Description
CompanyId	Int	5	Unique code of company
CompanyName	Varchar	20	Name of company
companyDisName	Varchar	10	Informal name of company
CompanyType	Varchar	20	Ownership type of firm
OwnerName	Varchar	30	Name of owner
Address	Varchar	50	Company's address
City	Varchar	15	Company's city
State	Varchar	15	Company's state
ZipCode	Int	10	Company's zip code
Phone	Varchar	10	Company's phone no
Fax	Int	10	Company's fax no
Mobile	Varchar	15	Company's mobile no
Website	Varchar	40	Company's website
Mail	Varchar	30	Company's mail ID
CompanyEstablishDate	Date		
Logo	Varchar	40	Company's logo
CompanyId	Int	5	Foreign key reference company(companyId)
taxRegNo	Varchar	15	Company's tax registration no
serviceTaxNo	Varchar	15	Company's service tax no
PANno	Varchar	15	Company's PAN no
vatTinNo	Varchar	15	Company's VAT TIN no
cstTinNo	Varchar	15	Company's CST TIN no
vendorCode	Int	10	Company's vendor code
paymentTerms	Varchar	50	Company's payment term
printOnInvoice	Boolean		
Documented	varchar	10	Unique key to generate all primary key
documentName	varchar	20	Name of document

documentPrefix	varchar	5	Prefix given to document
documentFirstNo	Int	5	Starting no. of document
customerCode	Varchar	10	Foreign key references customer(customerCode)
customerName	Varchar	20	Customer's name
customerAddress	Varchar	40	Customer's address
CustomerCity	Varchar	20	Customer's city
customerState	Varchar	20	Customer's state
customerZip	Int	10	Customer's zip code
customerContactPerson	Varchar	20	Customer's contact person
customerPhone	Varchar	10	Customer's phone no
customerMobile	Varchar	15	Customer's mobile no
customerEmail	Varchar	30	
customerCode	varchar	10	foreign key references customer(customerCode)
customerPaymentTerms	Varchar	40	Customer's payment terms
customerVATTINno	Varchar	10	Customer's VAT TIN no
CustomerCSTTINno	Varchar	10	Customer's CST TIN no
customerVendorCode	Int	10	Customer's vendor code
customerAdditionalNotes	Varchar	10	Customer's additional notes
loginId	Int	5	Unique login id
username	varchar	20	User name of the person
Password	varchar	20	Password of the login user
fullName	varchar	20	Full name of the user
supplierCode	Varchar	10	References document(documentId)
supplierName	Varchar	20	Supplier's name
supplierAddress	Varchar	40	Supplier's address
supplierCity	Varchar	10	Supplier's city
supplierState	Varchar	20	Supplier's state
supplierZipCode	Int	10	Supplier's zip code
supplierContactPerson	Varchar	20	Supplier's contact person
supplierPhone	Varchar	10	Supplier's phone no
supplierMobile	Varchar	15	Supplier's mobile
supplierEmail	Varchar	40	Supplier's email ID

supplierCode	varchar	10	Foreign key references supplierContactDetails(supplierCode)
supplierPaymentTerms	Varchar	30	Supplier's payment terms
supplierVATTINNo	Varchar	10	Supplier VATTIN no
supplierCSTTINNo	Varchar	10	Supplier's CST TIN no
supplierVendorCode	Int	10	Supplier's vendor code
supplierAdditionalDetail	Varchar	30	Additional detail of supplier
productGroupCode	varchar	10	Product group code no
productGroupName	varchar	20	Product group code name
paymentCode	varchar	10	Unique payment mode code no
paymentType	varchar	20	Payment type name
serviceCode	varchar	10	Unique payment mode code no
serviceName	varchar	20	Name of service type
cityCode	varchar	10	Unique code of city
cityName	varchar	20	Name of city
manufacturerCode	varchar	10	Unique code of manufacturer
manufacturerName	varchar	20	Name of manufacturer
yearId	varchar	10	Unique id of year
yearName	varchar	20	Name of year
fromDate	Date		Starting date of year
toDate	date		End date of year
Default	boolean		Default date
productCode	Varchar	10	References document(documentId)
productName	Varchar	20	Product's name
productManufacturer	Varchar	20	Foreign key references manufacturer(manufacturerName)
productDescription	Varchar	30	Product's description
productGroup	Varchar	10	Foreign key References productGroup(productGroupCode)

productDefaultSupplier	Varchar	20	foreign key references supplierContactDetails(supplierCode)
productPurchaseRate	Int	5	Product's buying rate
productPrice	Int	5	Product's selling price
minimumStockLevel	Int	4	Product's MSL
reorderQuantity	Int	4	Product's reorder quantity
initialStock	Int	4	Product's initial stock
productPurchaseRate	Int	5	Product's purchase rate
productPrice	Int	5	Product's manufacturing date
poNo	Varchar	10	Purchase order no references document(documentId)
poDate	Date		Purchase order date
poDeliveryDate	Date		Po delivery date
poSupplierId	Varchar	10	Foreign key references supplierContactDetails(supplierCode)
poSupplierName	Varchar	20	Supplier's name
poSupplierAddress	Varchar	30	Supplier's address
poSupplierCity	Varchar	10	Supplier's city
poSupplierContactPerson	Varchar	20	Contact person name of supplier
poSupplierPhone	varchar	10	Phone no of supplier
posupplierMobile	Varchar	15	Mobile no of supplier
poNo			Foreign key references purchaseOrder(poNo)
productName	Varchar	20	Name of product
productPrice	Int	5	Price of product
productQuantity	Int	5	Quantity of product
VAT	DOUBLE	5,2	Vat applied in percentage
VATTotal	Int	5	Total vat
Total	Int	5	Total price
Subtotal	Int	5	Sum of Total price and total vat

Discount	Int	5	Discount applied
netAmount	Int	5	Net amount after discount
paymentTerms	Varchar	40	Payment terms for supplier
Notes	Varchar	20	Notes for supplier
paymentNo	varchar	10	payment no for payment from customer
paymentDate	Date		Date of payment
soNo	varchar	10	Sales order no references salesOrder(soId)
customerName	Varchar	20	Name of customer
totalAmount	Int	5	Total amount
amountPaid	Int	5	Amount paid till date
amountPaying	Int	5	Amount to be paid now
paymentmodeId	Varchar	10	Foreign key references paymentMode(paymentMode Id)
paymentModetype	Varchar	20	Payment mode type name
Chequeno	Varchar	10	Cheque no
chequeDate	Date		Cheque date
accountName	Varchar	15	Account name for cheque
balanceAmount	Int	5	Balance due amount
custId	varchar	10	Foreign key references customer(customerCode)
poNo	Varchar	10	Purchase order no, references document(documentId)
poDate	Date		Purchase order date
supplierId	Varchar	10	Foreign key references supplierContactDetails(supplierCode)
productId	Varchar	10	Foreign key references product(productCode)
productName	Varchar	20	Name of product
productQuantity	Int	5	Quantity of product
productPrice	Int	5	Price of product
netAmount	Int	5	Final amount

receiptNo	vchar	10	Receipt no of payment
receiptDate	Date		Date of receipt
invoiceNo	vchar	10	Invoice no in receipt
supplierNo	vchar	10	Foreign key references supplierContactDetails(supplierCode)
supplierName	vchar	20	Name of supplier
orderNo	Vchar	10	Purchase order no references purchaseOrder(poNo)
orderDate	Date		Purchase order date
productCode	Vchar	10	Code of product, foreign key references product(productCode)
ProductName	Vchar	20	Name of product
RecQuantity	Int	5	Received quantity
RemQuantity	Int	5	Remaining quantity to be delivered
priceperQuantity	Int	5	Price of each quantity
totalPrice	Int	5	Total price
VATTotal	Int	5	Total vat amount
Subtotal	Int	5	Subtotal of vat and total amount
Discount	Int	5	Discount
netAmount	Int	5	Final amount
paymentTerms	Vchar	40	Payment terms to be followed while transaction
Notes	vchar	20	Extra information if any
paymentNo	Vchar	10	Payment no for making payment to supplier.
paymentDate	Date		Payment date
poNo	Vchar	10	Purchase order no, Foreign key references purchaseorder(poNo)
roNo	Vchar	10	Receive order no, Foreign key references

paymentModeId	Varchar	10	Foreign key references paymentMode(paymentMode Id)
totalAmount	Int	5	Total amount to be paid
amountPaid	Int	5	Amount that is already paid
amountPaying	Int	5	Amount being paid now
paymentMode	Varchar	20	Type of payment
chequeNo	Varchar	10	Cheque no of payment
chequeDate	Date		Cheque issuing date
accountNo	Varchar	10	Account no of issued cheque
accountHolderName	Varchar	20	Account holder's name
Balance	Int	5	Balance amount that is due
Status	varchar	10	Status of payment
soNo	Varchar	10	Sales order no, references document(documentId)
soDate	Date		Sales order date
deliveryDate	Date		Delivery date of sales order
soCustomerCode	Varchar	10	Code of customer
soCustomerName	Varchar	20	Name of customer
soAddress	Varchar	30	Address of customer
soCity	Varchar	10	City of customer
soContactPerson	Varchar	20	Contact person of customer
soMobile	Varchar	15	Mobile no of customer
serviceDescriptionId	varchar	10	Foreign key references serviceDescription(serviceDescriptionId)
serviceDescriptionName	Varchar	20	Name of service description
productCode	Varchar	10	Foreign key references product(productCode)
productName	Varchar	20	Name of product
productPrice	Int	5	Price of product
productQuantity	Int	5	Quantity of product
VAT	double	3,2	Vat applied
totalPrice	Int	5	Total price of product
VATamount	Int	5	Total vat amount

Subtotal	Int	5	Sum of total price and sum total
Discount	Int	5	Discount applied
netAmount	Int	5	Final amount of purchase
paymentTerms	Varchar	40	terms to be followed while transaction
Notes	vvarchar	30	Extra information if any
invoiceNo	vvarchar	10	Sales invoice no, references document(documentId)
invoiceDate	date		Sales invoice date
customerId	vvarchar	10	Foreign key references customer(customerId)
customerName	vvarchar	20	customerName
ordered	vvarchar	10	Sales order id, foreign key references salesOrder(soId)
orderDate	Date		Sales order date
dueDate	Date		Delivery due date
serviced	vvarchar	10	Foreign key references serviceDescription(serviceDescriptionId)
serviceType	vvarchar	20	Type of service description
productId	vvarchar	10	Foreign key references product(productId)
productName	vvarchar	20	Name of product
productPrice	Int	5	Price of product
productQuantity	Int	5	Quantity purchased of product
VAT	double	5,2	Vat applied in percentage
VATamount	Int	5	Total vat amount
Total	Int	5	Total price of product exclusive of tax
Subtotal	int	5	Sum of total price and total vat
Discount	Int	5	Discount applied
netAmount	int	5	Final amount

assembleCode	Varchar	10	Unique assemble product code
productCode	Varchar	10	Foreign key reference product(productCode)
assembleProductName	Varchar	20	Assembled product name
assembleProductGroup	Varchar	20	Product group of assembled product
productGroupid	Varchar	10	Foreign key reference productGroup(productGroup Code)
assembleProductDesc	Varchar	30	Description of assembled product
productPrice	Int	5	Actual price of product
TotalPrice	Int	5	marked price of product
assemblyPrice	Int	5	Price of assembling
Subtotal	Int	5	Sum of assembling and marked price
Discount	Int	5	Discount applied
netAmount	Int	5	Total of all amount

3.5 TABLE DESIGN

Company

Field Name	Datatype	Width	Constraints
companyId	Int	5	Primary key
companyName	Varchar	20	Not null
companyDisName	Varchar	10	Not null
companyType	Varchar	20	Not null
ownerName	Varchar	30	Not null
Address	Varchar	50	
City	Varchar	15	
State	Varchar	15	
zipCode	Int	10	
Phone	Int	10	
Fax	Int	10	Not null
Mobile	Varchar	15	Not null
Website	Varchar	40	Not null
Mail	Varchar	30	Not null
companyEstablishDate	Date		
Logo	Varchar	40	Not null

Companytax

Field name	datatype	Width	Constraints
companyCode	Int	5	Primary key
TaxRegNo	Varchar	15	Not null
serviceTaxNo	varchar	15	Not null
PANno	Varchar	15	Not null
VatTinNo	Varchar	15	Not null
CstTinNo	Varchar	15	Not null
VendorCode	Int	10	Not null
paymentTerms	Varchar	50	Not null
printOnInvoice	Boolean		Not null

Payment modes

Field name	Datatype	width	Constraints
paymentCode	varchar	10	Primary key
paymentType	varchar	20	Not null

Service descriptions

Field name	Datatype	Width	Constraints
serviceCode	Varchar	10	Primary key
serviceName	Varchar	20	Not null

cityList

Field name	Datatype	Width	Constraints
cityCode	Varchar	10	Primary key
cityName	varchar	20	Not null

Manufacturer

Field name	Datatype	Width	Constraints
manufacturerCode	Varchar	10	Primary key
manufacturerName	Varchar	20	Not null

financialYear

Field name	Datatype	Width	Constraints
yearID	Varchar	10	Primary key
yearName	Varchar	10	Not null
fromDate			Not null
toDate			Not null
Default	boolean	2	Not null

documentNumbers

Field name	Datatype	width	Constraints
DocumentId	Varchar	10	Primary key
documentName	Varchar	20	Not null
documentPrefix	Varchar	5	
documentFirstNo	Int	5	Not null

Customer

Field Name	Datatype	Width	Constraints
customerCode	Varchar	10	Primary key
customerName	Varchar	20	Not null
customerAddress	Varchar	40	
customerCity	Varchar	20	
customerState	Varchar	20	
customerZip	Int	10	
customerContactPerson	Varchar	20	
customerPhone	Int	10	
customerMobile	Varchar	15	Not null
customerEmail	Varchar	30	Not null

customerTax

Field Name	datatype	Width	Constraints
CustomerCode	Varchar	10	Primary key
customerPaymentTerms	varchar	40	
CustomerVATTINno	varchar	10	Not null
CustomerCSTTINno	varchar	10	Not null
customerVendorCode	Int	10	
customerAdditionalNotes	varchar	40	

Login

Field Name	Datatype	width	Constraints
LoginId	Int	5	Primary key
userName	varchar	20	Not null
password	varchar	20	Not null
fullName	varchar	20	Not null

SupplierContact

Field Name	Datatype	Width	Constraints
supplierCode	Varchar	10	Primary key
supplierName	Varchar	20	Not null
supplierAddress	Varchar	40	Not null
supplierCity	Varchar	10	Not null
supplierState	Varchar	20	Not null
supplierZipCode	Int	10	Not null
supplierContactPerson	Varchar	20	Not null
supplierPhone	Int	10	Not null
supplierMobile	Varchar	15	Not null
supplierEmail	Varchar	40	Not null

supplierTax

Field Name	Datatype	Width	Constraints
SupplierCode	varchar	10	Foreign key
supplierPaymentTerms	varchar	30	
SupplierVATTINNo	varchar	10	Not null
SupplierCSTTINNo	varchar	10	Not null
supplierVendorCode	Int	10	Not null
supplierAdditionalDetail	varchar	30	

productGroup

Field name	Datatype	Width	Constraints
productGroupCode	varchar	10	Primary key
productGroupName	varchar	20	Not null

assembleProduct

Field name	Datatype	Width	Constraints
assembleCode	Varchar	10	Primary key
productCode	Varchar	10	Foreign key
assembleProductName	Varchar	20	Not null
assembleProductGroup	Varchar	20	Not null
productGroupid	Varchar	10	Foreign key
assembleProductDesc	Varchar	30	Not null
productPrice	Int	5	Not null
TotalPrice	Int	5	Not null
assemblyPrice	Int	5	Not null
Subtotal	Int	5	Not null
Discount	Int	5	
netAmount	Int	5	Not null

Product

Field name	Datatype	width	Constraints
productCode	Varchar	10	Primary key
productName	Varchar	20	Not null
productManufacturer	Varchar	20	Not null
productDescription	Varchar	30	Not null
productgroupId	Varchar	10	Not null
productGroup	Varchar	20	Not null
supplierId	Varchar	20	Not null
productDefaultSupplier	Varchar	20	Not null

Purchase order

Field name	Datatype	width	Constraints
poNo	Varchar	10	Primary key
poDate	Date		Not null
poDeliveryDate	Date		
poSupplierId	Varchar	10	Not null
poSupplierName	Varchar	20	Not null
poSupplierAddress	Varchar	30	Not null
poSupplierCity	Varchar	10	Not null
poSupplierContactPerson	Varchar	20	Not null
poSupplierPhone	Int	10	Not null
posupplierMobile	varchar	15	Not null

receiveOrder

Field name	Datatype	Width	Constraints
receiptNo	Varchar	10	Primary key
receiptDate	Date		Not null
invoiceNo	Varchar	10	Foreign key
supplierNo	Varchar	10	Foreign key
supplierName	Varchar	20	Not null
orderNo	Varchar	10	Foreign key
orderDate	Date		Not null
productCode	Varchar	10	Foreign key
ProductName	Varchar	20	Not null
RecQuantity	Int	5	Not null
RemQuantity	Int	5	Not null
priceperQuantity	Int	5	Not null
totalPrice	Int	5	Not null
VATTotal	Int	5	Not null
Subtotal	Int	5	Not null
Discount	Int	5	
netAmount	Int	5	Not null
paymentTerms	Varchar	40	
Notes	Varchar	20	

DuePurchaseOrder

Field Name	Datatype	Width	Constraints
poNo	Varchar	10	Primary key
poDate	Date		Not null
supplierId	Varchar	10	Foreign key
productId	Varchar	10	Foreign key
productName	Varchar	20	Not null
productQuantity	Int	5	Not null
productPrice	Int	5	Not null
netAmount	Int	5	Not null

makePayment

Field Name	Datatype	Width	Constraints
paymentNo	Varchar	10	Primary key
paymentDate	Date		Not null
poNo	Varchar	10	Foreign key
roNo	Varchar	10	Foreign key
paymentModeId	Varchar	10	
totalAmount	Int	5	Not null
amountPaid	Int	5	Not null
amountPaying	Int	5	Not null
paymentMode	Varchar	20	
chequeNo	Varchar	10	
chequeDate	Date		
accountNo	Varchar	10	
accountHolderName	Varchar	20	
Balance	Int	5	Not null
Status	varchar	10	Not null

paymentReceipt

Field Name	Datatype	Width	Constraints
paymentNo	Varchar	10	Primary key
paymentDate	Date		Not null
soNo	Varchar	10	Foreign key
Custname	Varchar	20	Not null
totalAmount	Int	5	Not null
amountPaid	Int	5	Not null
amountPaying	Int	5	Not null
paymentmodeId	Varchar	10	Foreign key
paymentModetype	Varchar	20	Not null
Chequeno	Varchar	10	
chequeDate	Date		
accountName	Varchar	15	

balanceAmount	Int	5	Not null
custId	Varchar	10	Foreign key

salesOrder

Field name	Datatype	Width	Constraints
soNo	Varchar	10	Primary key
soDate	Date		
deliveryDate	Date		Constraints
soCustomerCode	Varchar	10	Foreign key
soCustomerName	Varchar	20	Not null
soAddress	Varchar	30	Not null
soCity	Varchar	10	
soContactPerson	Varchar	20	
soMobile	Varchar	15	Not null
serviceDescriptionId	varchar	10	Foreign key
serviceDescriptionName	Varchar	20	Not null
productCode	Varchar	10	Foreign key
productName	Varchar	20	Not null
productPrice	Int	5	Not null
productQuantity	Int	5	Not null
VAT	Int	5	Not null
totalPrice	Int	5	Not null
VATamount	Int	5	Not null
Total		5	Not null
Subtotal	Int	5	Not null
Discount	Int	5	
netAmount	Int	5	Not null
paymentTerms	Varchar	40	
Notes	varchar	30	

Sales invoice

Field name	Datatype	Width	Constraints
invoiceNo	varchar	10	Primary key
invoiceDate	date		Not null
customerId	varchar	10	Foreign key
customerName	varchar	20	Not null
orderId	varchar	10	Foreign key
orderDate	Date		Not null
dueDate	Date		
serviceId	varchar	10	Foreign key
serviceType	varchar	20	Not null
productId	varchar	10	Foreign key
productName	varchar	20	Not null
productPrice	Int	5	Not null
productQuantity	Int	5	Not null
VAT	Int	5	Not null
VATamount	Int	5	Not null
Total	Int	5	Not null
Subtotal	int	5	Not null
Discount	Int	5	
netAmount	int	5	Not null

3.6 CODE DESIGN

1.

Table name: company

Primary key: companyId

Datatype: int

Size : 5

Description: table stores all the basic and contact details about the company.

2.

Table name: companyTax

Primary key: companyId

Datatype: int

Size : 5

Description: table stores all the tax details of the company which can be used at the time of purchase or sales.

3.

Table name: customer

Primary key: customerCode

Datatype: varchar

Size : 10

Description: table stores all the basic and contact details about its customers.

4.

Table name: customerTaxDetails

Foreign key: customerCode

Datatype: varchar

Size : 10

Description: table stores all the tax details about its customers.

5.

Table name: Login

Primary key: loginId

Datatype: int

Size : 5

Description: it stores details of the user login. It validates user authentication and logins.

6.

Table name: supplierContactDetails

Primary key: supplierCode

Datatype: varchar

Size : 10

Description: it stores all the contact & communication details of the supplier which can be used for future references.

7.

Table name: supplierTaxDetails

Foreign key: supplierCode

Datatype: varchar

Size : 10

Description: this stores the supplier's tax details numbers which are government issued for verification as well as transaction.

8.

Table name: product

Primary key: productCode

Datatype: varchar

Size : 10

Description: It stores all the available products information so that proper recording of inventory is done.

9.

Table name: purchaseOrder

Primary key: loginId

Datatype: int

Size : 5

Description: it stores details of the user login. It validates user authentication and logins.

10.

Table name: paymentReceipt

Primary key: paymentNo

Datatype: varchar

Size : 10

Description: It stores details of all the payments made to the suppliers for the products purchased.

11.

Table name: DocumentNumbers

Primary key: documentId

Datatype: varchar

Size : 10

Description: It manages the initialization process of all the important documents in the system. It takes the starting value for all the documents and auto increments accordingly.

12.

Table name: receiveOrder

Primary key: receiptNo

Datatype: varchar

Size : 10

Description: It stores the details of the stock receipt entry when the supplier delivers product as per the purchase order.

13.

Table name: salesOrder

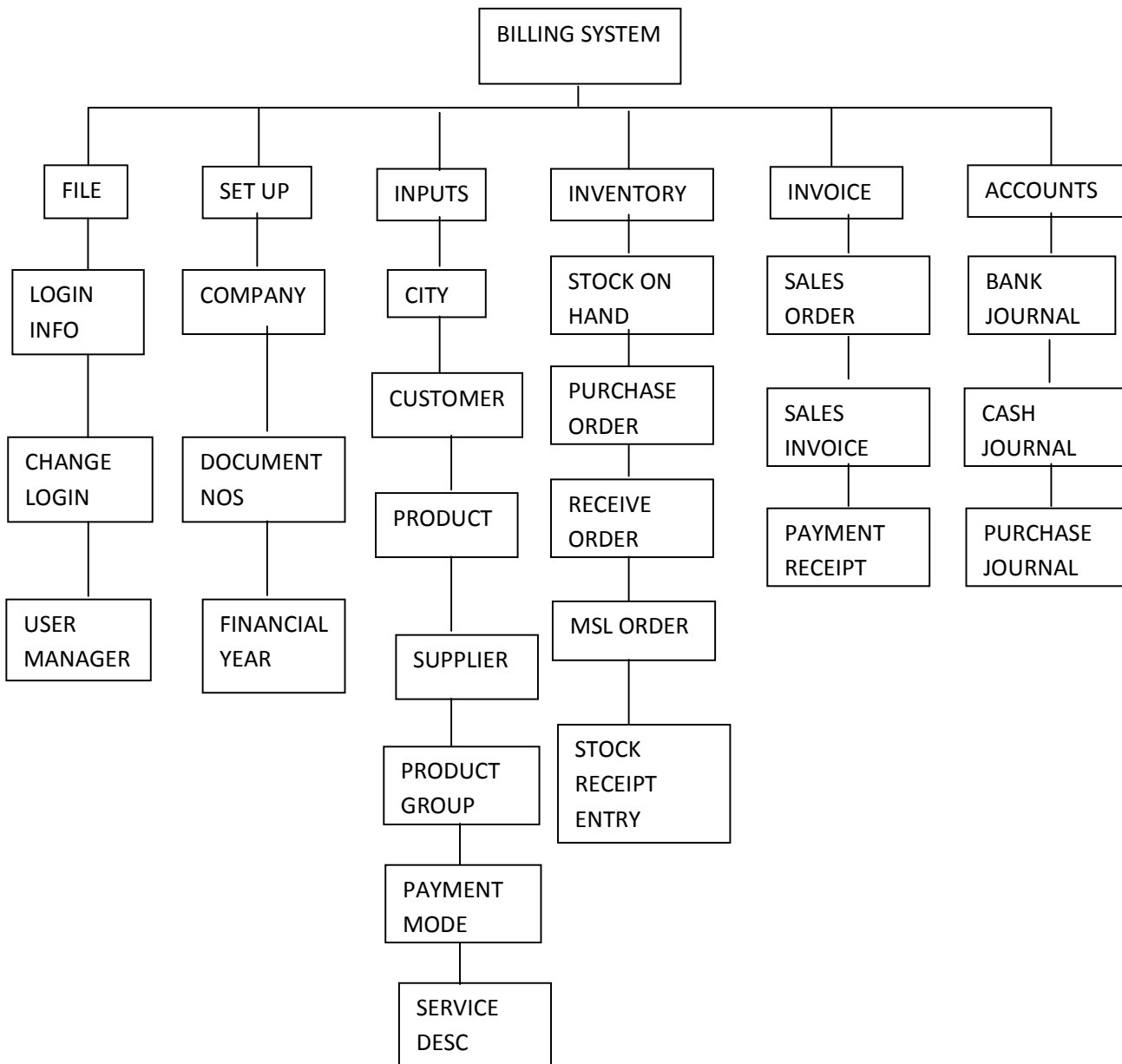
Primary key: soNo

Datatype: varchar

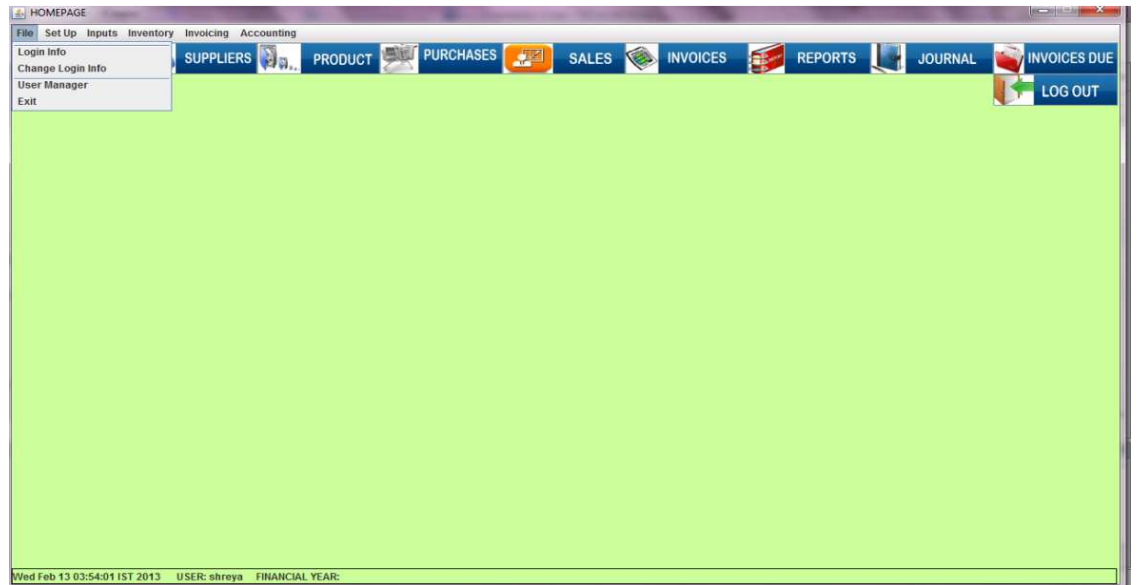
Size : 10

Description: It stores the sales orders which are given to the company by its customers.

3.7 MENU TREE



3.8 MENU SCREENS













3.9 INPUT SCREEN WITHOUT DATA

The screenshot shows a window titled "COMPANY SET UP" with a light green background. It contains the following fields and controls:

Company Name	<input type="text"/>	Fax	<input type="text"/>
Display Name	<input type="text"/>	Phone	<input type="text"/>
Owner Name	<input type="text"/>	Mobile	<input type="text"/>
Company Type	Sole Proprietorship <input type="button" value="v"/>	Website	<input type="text"/>
Address	<input type="text"/>	Mail	<input type="text"/>
Pin Code	<input type="text"/>	Logo	<input type="text"/>
State	<input type="text"/>	Established On	<input type="text"/>

At the bottom of the window are three buttons: **NEXT**, **FINISH**, and **CANCEL**.

The screenshot shows a window titled "COMPANY'S TAX DETAILS" with a light green background. It contains the following fields and controls:

Tax Registration No.	<input type="text"/>	Payment Terms	<input type="text"/>
Service Tax No.	<input type="text"/>		
PAN No.	<input type="text"/>		
VAT TIN No.	<input type="text"/>	Print on invoice	<input type="checkbox"/>
CST TIN No.	<input type="text"/>		
Vendor Code	<input type="text"/>		

At the bottom of the window are three buttons: **BACK**, **FINISH**, and **CANCEL**.

A screenshot of a software window titled "CITY LIST". The window has a light green background and a standard Windows-style title bar with minimize, maximize, and close buttons. Inside the window, there is a table with one header row labeled "CITY NAME" and one empty data row. Below the table, there are four buttons arranged in a 2x2 grid: "ADD ROW", "DELETE", "SAVE", and "CLOSE".

CITY NAME

ADD ROW DELETE

SAVE CLOSE

A screenshot of a software window titled "CHANGE LOGIN INFO". The window has a light green background and a standard Windows-style title bar with minimize, maximize, and close buttons. Inside the window, there are three input fields for "User Name", "Password", and "Confirm Password". Below the input fields, there are two buttons: "UPDATE" and "CANCEL".

User Name

Password

Confirm Password

UPDATE CANCEL

SALES ORDER

Order No Customer Id City
 Order Date Customer Name Contact Per.
 Delivery Date Address Mobile

Service Type	Product Id	Product Name	Price	Quantity	VAT(%)	VAT Amount	Total

Payment Terms

Notes

Sub Total
 Discount
 Net Amount

RECEIVE ORDER

Receipt No. Order No
 Receipt Date Order Date
 Invoice No Supplier Name

Product Id	Product Name	Rec. Quantity	Rem. Quantity	Price per qty	Total Price

Total VAT

Payment Terms

Notes

Sub Total
 Discount
 Net Amount

MAKE PAYMENT

Payment No.

Payment Date

POrder No.

ROrder No.

Total Amount

Amount Paid

Amount Paying

Payment Mode

Cheque No.

Cheque Date

Account No.

A/C Holder

Bal. Amount

FINANCIAL YEAR

YEAR ID	YEAR NAME	FROM YEAR	TO YEAR	DEFAULT

3.10 REPORT FORMATS

TAX INVOICE

TECHNOTRONIX
SWAMI PLAZA, GP 89, G4,
OPP. HDFC COLONY,
G BLOCK, MIDC, CHINCHWAD,
PUNE-19 OFF NO.-020-27492158

ORDER NO ORDER DATE

TERMS OF PAYMENT

TERMS OF DELIVERY

PRODUCT NAME	DESCRIPTION	PRICE	QTY	VAT	AMOUNT
--------------	-------------	-------	-----	-----	--------

TOTAL
DISCOUNT/MISCELLANEOUS
NET AMOUNT

Amount Chargeable(in words)

VAT TIN NO.

CST TIN NO.

SERVICE TAX NO

I hereby, declare that my/our registration certification are under
Maharashtra value added tax act 2002.

TECHNOTRONIX

Authorized Signature

LIST OF SUPPLIERS

Code	Name	City	Phone	Mobile	Email
0	NO RECORDS FOUND	null	null	null	null

Tuesday 12 February Page 1 of 1

PRODUCT LIST

Code	Name	Manufacturer	Price	Initial Stock
4	No data	null	0	0

Tuesday 12 February Page 1 of 1

3.11 TEST PROCEDURES & IMPLEMENTATION

TEST CASE: Test Case1 - Login Form

Valid User name and Password

Input= Email Id, Password

Output: Corresponding message Show

Test Type: - Validation Testing

Implementation of Test Case:

Test Case Id	Test Step	Test Data	Expected Result	Actual Result	Status
TC_Log in01	User name and password is not enter and click on login button	User name = " " " password = " "	User should not log in.	Show error msg." Enter user name and password."	Pass
TC_Log in02	Enter valid User name and invalid password	User name = "abc" password = "*** "	User should not log in.	Show error msg." Enter correct password."	Pass
TC_Log in03	Enter invalid User name and valid password	User name = "ab " password = "**** ** "	User should not log in.	Show error msg." your User name and password does not match "	Pass
TC_Log in04	Enter valid User name and password	User name = "abc " password = "**** ** "	User should be log in.	Login successfully	Pass

TEST CASE: Test Case2 – Accepting customer details

Valid Email address

Input= Email Id

Output: Corresponding message Show

Test Type: - Validation Testing

Implementation of Test Case:

Test Case Id	Test Step	Test Data	Expected Result	Actual Result	Status
TC_Log in01	User kept all fields blank and click on save button	Email_id = ""	Data should not be saved	Show error message "Enter email Id"	Pass
TC_Log in02	User entered incorrect email id	Email_id="a cb@com	User should get error message	Show error msg "Enter correct email Id."	Pass
TC_Log in03	User entered all data correctly	Email_id="abc@gmail.com	Proceed to save	Show message " Data saved successfully "	Pass

TEST CASE: Test Case3 – Purchase order

Valid purchase entry

Input= product id

Output: Corresponding message Show

Test Type: - Validation Testing

Implementation of Test Case:

Test Case Id	Test Step	Test Data	Expected Result	Actual Result	Status
TC_Lo gin01	User kept all fields blank and click on save button	product_id = ""	Data should not be saved	Show error message "Enter atleast one product"	Pass
TC_Lo gin02	User entered incorrect product id	product_id="sfsdf"	User should get error message	Show error msg "Enter correct product id."	Pass
TC_Lo gin03	User entered all data correctly	product_id=1	Proceed to save	Show message " Data saved successfully "	Pass

TEST CASE: Test Case4 – Payment

Valid amount and payment mode

Input= amount and product mode

Output: Corresponding message Show

Test Type: - Validation Testing

Implementation of Test Case:

Test Case Id	Test Step	Test Data	Expected Result	Actual Result	Status
TC_Logi n01	User kept all fields blank and click on save button	amount = " " & payment_mode=" "	Data should not be saved	Show error message "Enter data"	Pass
TC_Logi n02	User entered incorrect amount or didn't selected payment mode	Amount="abc" and payment_mode=" "	User should get error message	Show error msg "Enter correct amount & select payment mode"	Pass
TC_Logi n03	User enter amount correct and selected cheque but didn't mentioned the details	Amount="1000" and payment_mode="cheque"	User should get error message for payment mode	Amount is correct. Enter payment details.	Pass
TC_Logi n04	User entered all data correctly	Amount="123" and payment_mode="cash"	Proceed to save	Show message " Data saved successfully "	Pass

TEST CASE: Test Case5- Product

Valid initial stock

Input= initial stock, MS level

Output: Corresponding message Show

Test Type: - Validation Testing

Implementation of Test Case:

Test Case Id	Test Step	Test Data	Expected Result	Actual Result	Status
TC_Login01	User kept all fields blank and click on save button	Initial_stock = "" and ms_level=""	Data should not be saved	Show error message "Enter data"	Pass
TC_Login02	User entered invalid amount in initial_stock or ms_level	Initial_stock="asc" and ms_level="abc"	User should get error message	Show error msg "Enter valid initial stock and ms level"	Pass
TC_Login03	User enter initial stock but didn't enter ms_level	Initial_stock="120" and Ms_level="0"	User should get error message for ms level	Enter proper ms level.	Pass

TEST CASE: Test Case6- Sales order

Valid order date

Input= order date

Output: Corresponding message Show

Test Type: - Validation Testing

Implementation of Test Case:

Test Case Id	Test Step	Test Data	Expected Result	Actual Result	Status
TC_Login01	User kept all fields blank and click on save button	Order_date= ” ”	Data should not be saved	Show error message “Enter data”	Pass
TC_Login02	User selected date before the todays date	Order_date= ”11/04/2013 ”	User should get error message	Show error msg ”Enter valid date”	Pass
TC_Login04	User entered all data correctly	Order_date= “12/04/2013 ”	Proceed to save	Show message ” Data saved successfully ”	Pass

CHAPTER - 4

USER MANUAL

4.1 USER MANUAL

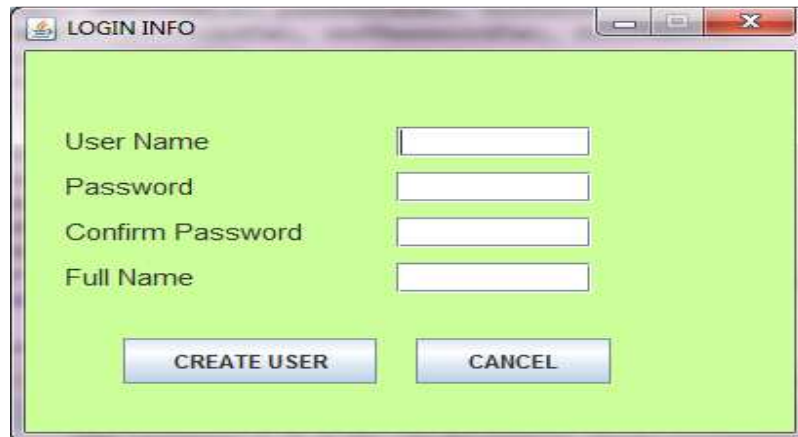
Though the developed system is GUI based, user friendly, the functionality of the system is simple and easy. Although the user interface of the system is built such the any one can use if he knows the keyboard and mouse operation. All pages of the application contain the descriptive links and buttons that help the user to perform required operation.

The following section provides the details, which can be very useful in using the system. The description is in details so that any user can also use it very easily.

Even though at the time of using the system if user face any problem or difficulty then user can refer to the user manual where all the operations of each page are explained.

The main objective of the system is to maintain the accounts of the firm and keep the record of purchase and sales.

LOGIN PAGE



The image shows a window titled "LOGIN INFO" with a light green background. It contains four text input fields arranged vertically, each with a label to its left: "User Name", "Password", "Confirm Password", and "Full Name". Below the input fields are two buttons: "CREATE USER" on the left and "CANCEL" on the right. The window has a standard Windows-style title bar with minimize, maximize, and close buttons.

This Page helps the user to Login themselves to the system

It contains the following Fields:

- User name: - the user name by which he is registered to the system
- Password: - The Secret password which he has chooses for him to be secured.
- Create user – to create the valid user.
- Cancel:- user can cancel login

This is single user system, only one user can login at a time.

COMPANY SET UP

The screenshot shows a 'COMPANY SET UP' dialog box with a light green background. It contains the following fields and controls:

- Company Name: Text input field
- Display Name: Text input field
- Owner Name: Text input field
- Company Type: Dropdown menu with 'Sole Proprietorship' selected
- Address: Text input field
- Pin Code: Text input field
- State: Text input field
- Fax: Text input field
- Phone: Text input field
- Mobile: Text input field
- Website: Text input field
- Mail: Text input field
- Logo: Text input field with a camera icon
- Established On: Text input field with a calendar icon

At the bottom of the dialog are three buttons: 'NEXT', 'FINISH', and 'CANCEL'.

The user has to fill the above mentioned field before start using this system.

This form requires different Company related information which the user has to enter.

Company name – This requires the name of the company to be entered.

Display name – This includes the name which has to be displayed.

Owner name – The name of the owner.

Company type – It includes the type of the company.

Address – The address of the company.

Pin code – The pin code of the company.

State – The state of the company in which the company is located.

Fax – The fax number of the company.

Phone – The phone number of the company.

Mobile – The mobile number of the company.

Website – The website of the company.

Mail – The mail address of the company.

Logo – The logo of the company

Established on – The establishment date.

PURCHASE ORDER

Purchase Order

NEW MODIFY SAVE DELETE POST JOURNAL

ALL NEW/MODIFY

ORDER NO ADDRESS PHONE
ORDER DATE CITY MOBILE
DEL. DATE CONTACT PERSON
SUPPLIER NAME

Product Id	Product Name	Price	Quantity	VAT(%)	VAT Amount	Total
------------	--------------	-------	----------	--------	------------	-------

ADD ROW DELETE ROW

PAYMENT TERMS

NOTES

Sub Total
Discount
Net Amount

MySQL 5.5: Command Line Client

The user has to make a purchase order. Whenever the user has to purchase some product, that time this purchase order is generated.

This form includes the following main texts-

Order no – This is an auto generated reference to the purchase order.

Order date – This is the date of the order placed.

Delivery date – This includes the delivery date of the order.

Supplier name – This includes the name of the supplier.

Contact person – This is the name of the person to be contacted.

Product details – This is the product detail which includes the product id, product name, price, quantity, vat (%), vat amount, total

Net amount – This is the net amount calculated by the system.

4.2 MENU EXPLANATION

- 1) File: user registers himself. User manager: user can create other users. User can change login credentials.
- 2) Set up: It is the initial set up of the documents that need to have some data before we start using the system.
- 3) Inputs: this menu is designed to ease the work of the user by creating small tables for the details that are required frequently to avoid typing and insert incorrect input.
- 4) Inventory: to store product, at first purchase order is created and then the order is received and quantity of products are checked periodically to ensure inventory of product.
- 5) Invoicing: sales order is the order given by the customer. Thus the process of storing data of product's sold is invoicing.
- 6) Accounts: it maintains all the transactions held by the system.

4.3 PROGRAM SPECIFICATION

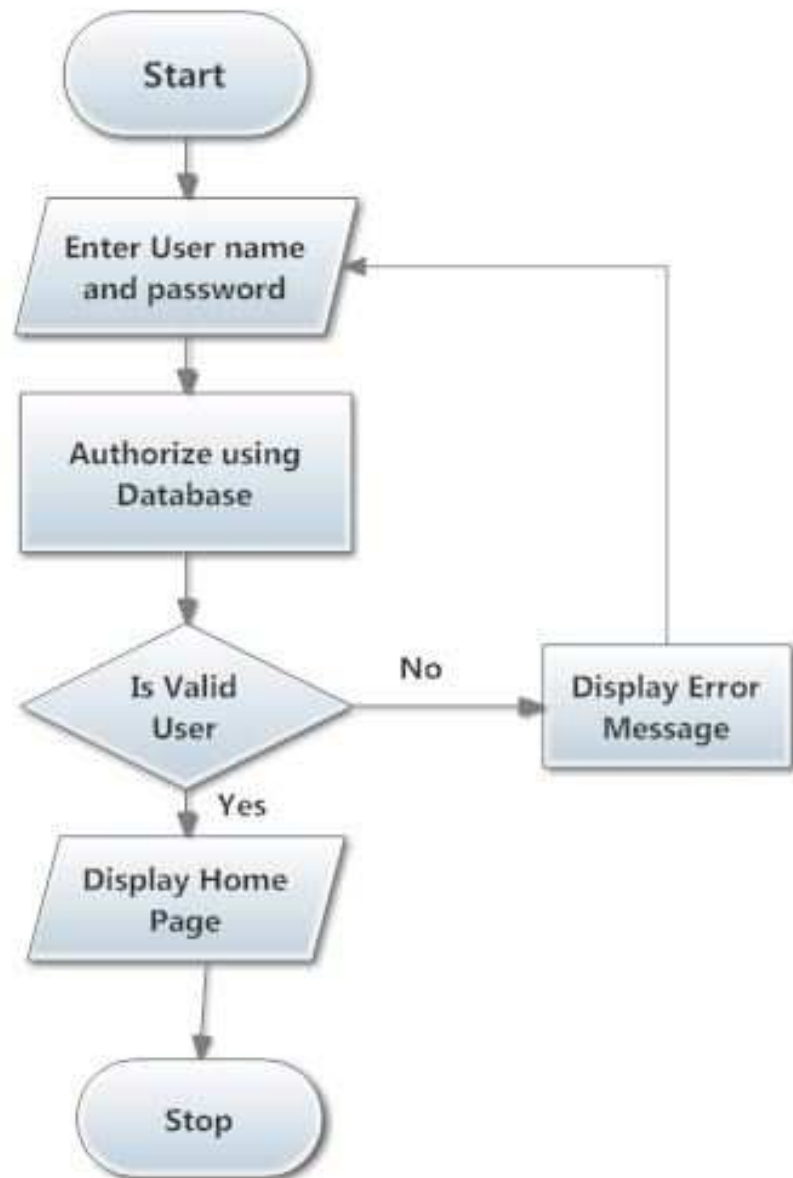
The system is developed in JAVA and SWING is used as frontend and MYSQL as backend.

Following are the program specification used in the development process explained with the help of flowcharts.

User Authentication (Login)

Module Name	Authentication and Authorization
Program Name	Login to the System
Purpose	Check Authentication of User
Event	Click on “Login” Button

Input	Constraint	Description
Login Details (Emails and Password)	The required fields must not be null and input data should be Valid.	Login details gets checked against Database
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.
Output	The Login details gets checked against database To check the authentication of user & user gets Notification message of successfully login	



4.4 FORMS AND REPORT SPECIFICATION

1. Form name: company set up

Description: This is the main form of the system where the company detail which is using the software is entered. The form accepts all the basic and communication data about the company.

Table name: company

2. Form name: company's tax details

Description: This form accepts the company's tax details which can be further used in bill generation. These are the legal data about the company which shows that it is registered or not.

Table name: companyTax

3. Form name: Document No

Description: It is kind of a utility form which is developed for easy understanding of the document code. The user can fill this form and the auto generation of ID takes place by synchronizing it from this form.

Table name: documentNumbers

4. Form name: Customer

Description: This is the customer form. All the basic input forms have been designed keeping the easy retrieval of reports. Thus, here the form is divided into 2 tabs where “ALL” tab displays all the data from the customer table and “NEW/MODIFY” tab takes new customers data input.

Table name: customer and customerTax

5. Form name: City List

Description: City names are accepted separately, to minimize the typing and easy retrieval of data.

Table name: cityList

6. Form name: Supplier

Description: Form to add supplier's data who are related to the company and supply products when required. Their contact and tax details are saved in database in separate tables.

Table name: supplierContact, supplierTax

7. Form Name: Purchase Order

Description: This form is used to generate purchase order which is further given to supplier who have to deliver the products which have sent requisition for in the form.

Table name: purchaseOrder

8. Form Name: Stock on hand

Description: Displays all the stock availability. Stock can be searched from product table in the database and it can be filtered by product group, product name, product id or view all products at a time.

Table name: product

9. Form name: Sales order

Description: This form is used when the customer purchases product from the company. It takes customer detail and the products purchased or any service used.

Table name: salesOrder

10. Form name: stock receipt entry/Received Order

Description: As per the purchase order, products are delivered by the supplier and the order is received formally and record is kept for the same.

11. Report name: Bank journal

Description: It displays all the transaction info which have been made by cheque either by the customer to company or by the company to supplier. All the cheque related information are stored. A journal means a daily record of events or business.

Table name: purchase journal, sales invoice

12. form name: Cash Journal

Description: Cash journal displays all the transaction info which have been made by cash either by the customer to company or by the company to supplier.

Table name: purchase journal, sales invoice

13. Form name: Tax Invoice

Description: This is the bill design which is given to customer on the purchase of any item or any services taken from the company. It displays the company's contact details and the purchased product and payment.

Table name: salesInvoice

14. Form name: Purchase Journal Report

Description: This journal stores all the entries related to purchases made between the company and the supplier. It contains all the bank and cash journals which have been used in the purchase order payment.

Table name: purchaseJournal

DRAWBACKS
&
LIMITATIONS

1. No alarm is set to inform user about the minimum stock level.
2. Email cannot be send with attachments. Only specific data can be emailed.
3. Storage of multiple data may cause a problem.
4. Multiple user can access the system but no privacy of data is maintained.

**PROPOSED
ENHANCEMENTS**

- Permission to be set for each and every new user. Proposed system is multiple user system and each function can be carried out by each user. Thus, to maintain some privacy permission access should be set within the system.

- Email facility can be widened. Now the email can be sent from only one email id but it can be entered manually, so that emailing is not registered to single id or only one user's id.

- Menu's can be created with password lock. Password should be asked to access some important data.

CONCLUSIONS

This stand alone project on billing system developed by me has been a great experience. The system is developed as per the user requirement and great cooperation and effort have been put in from both the ends.

The system will be handling all the manual processes of the firm and promises to make their work easy.

It was a learning experience throughout for me. I have tried using new methods and techniques to give the user a simple and easy to access feeling about the system.

Thus, by concluding this I would like to thank each and every individual who supported me throughout the project.

BIBLIOGRAPHY

Following books were helpful in building and understanding the concepts. Also these books proved to be of great importance during the actual development i.e. Design & Coding of the system:-

Books:

- 1) Java Complete reference by Herbert Schildt
- 2) Java Black book by Steven Holzner
- 3) Core java by R Nageswara Rao

Web Site:

<http://www.roseindia.com>

<http://www.java2s.com>

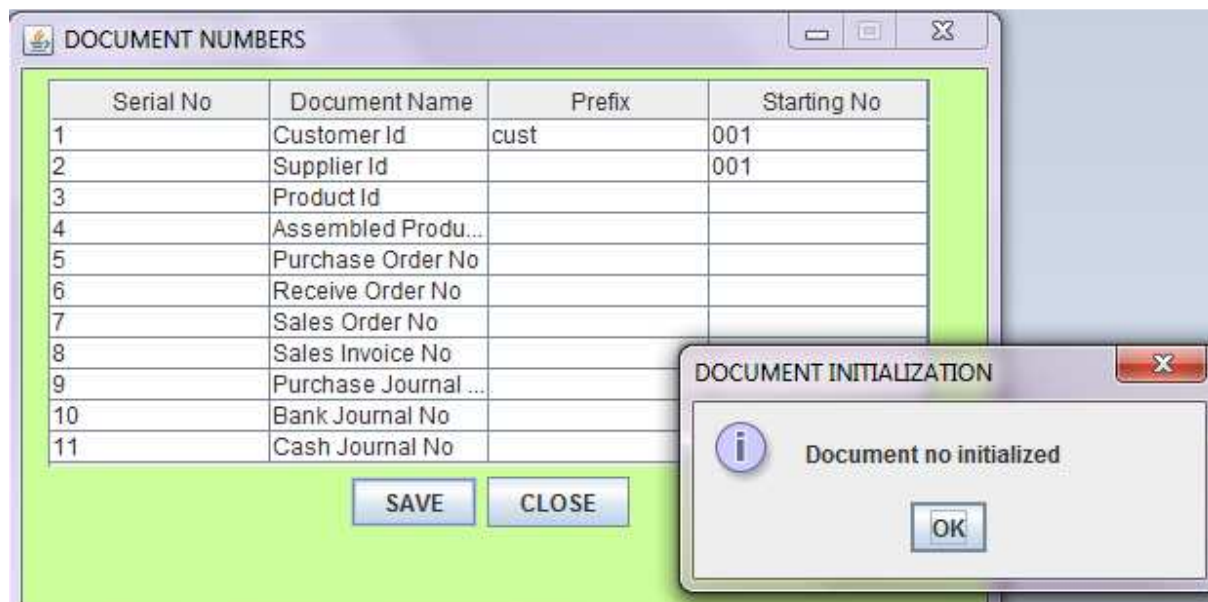
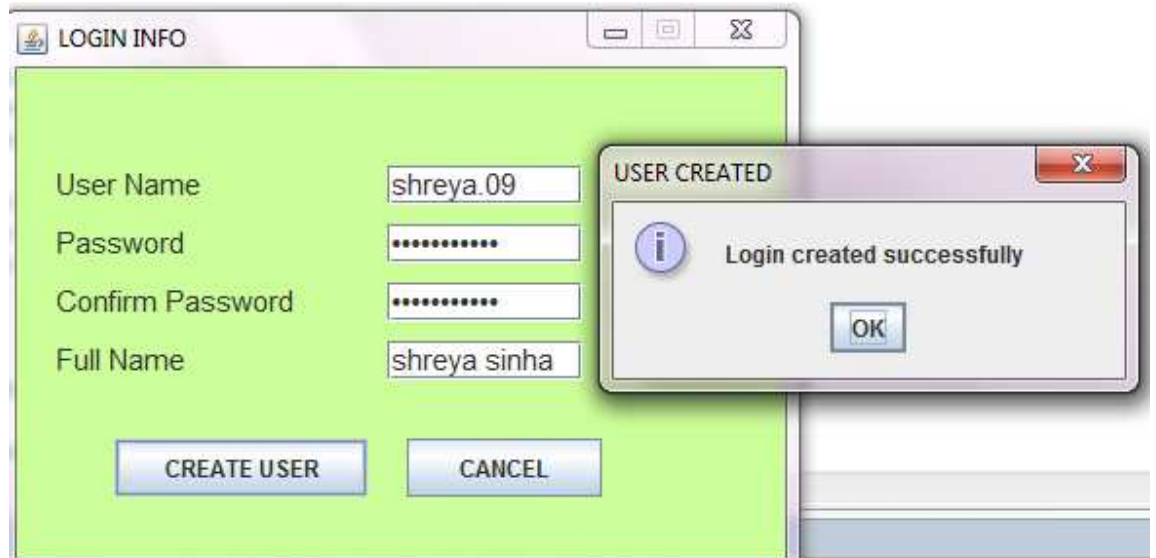
<http://www.docs.oracle.com>

<http://www.javabeginner.com>

ANNEXURES

ANNEXURE 1:

**USER INTERFACE
SCREENS**



COMPANY SET UP

Company Name: Technotronix Pvt. Ltd. Fax:

Display Name: TECHNOTRONIX Phone: 2667891

Owner Name: AJAY KUMAR Mobile: 9891098910

Company Type: Sole Proprietor Website:

Address: Pradhikaran, nigdi Mail: ajay@technotronix.co.in

Pin Code: 411019 Logo: Documents\Photo0033.jpg

State: MAHARASHTRA Established On: 3/9/03

NEXT FINISH CANCEL

RECEIVE ORDER

NEW MODIFY SAVE DELETE MAKE PAYMENT

ALL NEW/MODIFY

Receipt No. 1 Order No. 1

Receipt Date: 2013-04-05 Order Date: 4/5/13

Invoice No. 100 Supplier Name: nitin

Product Id	Product Name	Rec. Quantity	Rem. Quantity	Price per qty	Total Price
1	mouse	6	0	900	5400

ADD ROW DELETE ROW Total VAT: 270

Payment Terms:

Notes:

Sub Total: 2670
Discount: 0
Net Amount: 2670

Purchase Order

ORDER NO
ADDRESS
PHONE

ORDER DATE
CITY
MOBILE

DEL. DATE
CONTACT PERSON

SUPPLIER NAME

Product Id	Product Name	Price	Quantity	VAT(%)	VAT Amount	Total
1	mouse	900	6	5	270	540
2	harddisk	5000	6	5	1500	30000

PAYMENT TERMS

NOTES

Sub Total
Discount
Net Amount

ANNEXURE 2:

**OUTPUT
REPORTS WITH
DATA**

TAX INVOICE

TECHNOTRONIX
SWAMI PLAZA, GP 89, G4,
OPP. HDFC COLONY,
G BLOCK, MIDC, CHINGHWAD,
PUNE-19 OFF NO.-020-27492158

Vinay Suppliers Pvt. Ltd
Baner, Pune

ORDER NO ORDER DATE
1 2013-04-01
TERMS OF PAYMENT
TERMS OF DELIVERY

PRODUCT NAME	DESCRIPTION	PRICE	QTY	VAT	AMOUNT
webcam	logitech	1200	10	5	12600

TOTAL	12600
DISCOUNT/MISCELLANEOUS	0
NET AMOUNT	12600

Amount Chargeable[in words]; twelve thousand and six hundred only.

VAT TIN NO.

CST TIN NO.

SERVICE TAX NO

I hereby, declare that my/our registration certification are under
Maharashtra value added tax act 2002.

TECHNOTRONIX

Authorized Signature

LIST OF SUPPLIERS

Code	Name	City	Phone	Mobile	Email
1	ravi kulkarni	Pune	2675673	9334122878	ravi@gmail.com
2	nitin	Pune	2675731	9975565432	nitin@gmail.com
3	vinay	Pune	2425673	null	null

LIST OF CUSTOMERS

Code	Name	City	Phone	Mobile	Email
cust001	ankita	pune	null	7709197930	ankita.ambekar@gmail.com
cust002	sahil	pune	null	9988990099	sahil@gmail.com
cust003	savi	pune	null	9988666099	savi@gmail.com
cust004	arijit	pune	null	1111990099	arijit@gmail.com

LIST OF PRODUCTS

ID	NAME	MANUFACTURER	GROUP	RATE	PRICE	MSL	REORDER	INI.STOCK
1	mouse	logitech	Input	900	930	2	4	6
2	harddisk	seagate	Storage device	5000	5300	1	4	6
3	webcam	logitech	Output	1200	1250	2	5	10

SAMPLE CODE


```

import java.awt.*;
import javax.swing.*;
import javax.swing.JComponent;
import java.util.Date;
import java.util.spi.LocaleNameProvider;
import java.util.Locale;
import java.util.Calendar;
import java.util.Date;
import java.awt.event.*;
import java.sql.*;
import java.io.*;
import java.awt.image.*;
import javax.swing.SwingUtilities;
import java.awt.event.ActionEvent;
import javax.swing.JOptionPane;

public class CompanySetUp implements ActionListener
{
    JFrame frame=new JFrame("COMPANY SET UP");
    JLabel companyNameLbl, displayNameLbl, ownerNameLbl,
companyTypeLbl, companyAddressLbl, companyPinCodeLbl,
companyStateLbl, companyPhoneLbl, companyFaxLbl;
    JLabel companyLogoLbl, companyMobileLbl,
companyWebsiteLbl,companyMailLbl,establishDateLbl;
    JTextField companyNameTxt, displayNameTxt,
ownerNameTxt,companyPinCodeTxt, companyStateTxt,
companyPhoneTxt, companyFaxTxt, companyLogoTxt,
companyMobileTxt;
    JTextField companyWebsiteTxt,companyMailTxt;
    ObservingTextField establishDateTxt;
    JComboBox companyTypeCombo;
    JTextArea companyAddressTxt;
    JButton nextButton, finishButton, cancelButton, datepick,
browseButton;

```

```
JScrollPane companyAddressScroll;  
Image uploadLogo;  
File file;  
String path="";  
Color customColor=new Color(204,255,153);  
Connection con;  
Statement stmt, stmt1;  
ResultSet rs, rs1;
```

```
public CompanySetUp()  
{  
    this.frame=frame;  
    Container content = frame.getContentPane();  
    content.setLayout(null);  
    content.setBackground(customColor);  
  
        companyNameLbl= new JLabel("Company Name");  
content.add(companyNameLbl);  
companyNameLbl.setBounds(50,30,120,20);  
  
companyNameTxt=new JTextField();  
content.add(companyNameTxt);  
companyNameTxt.setBounds(190,30,150,20);  
  
displayNameLbl= new JLabel("Display Name");  
content.add(displayNameLbl);  
displayNameLbl.setBounds(50,60,120,20);  
  
displayNameTxt= new JTextField();  
content.add(displayNameTxt);  
displayNameTxt.setBounds(190,60,150,20);  
  
ownerNameLbl = new JLabel("Owner Name");  
content.add(ownerNameLbl);  
ownerNameLbl.setBounds(50,90,120,20);
```

```

ownerNameTxt = new JTextField();
content.add(ownerNameTxt);
ownerNameTxt.setBounds(190,90,150,20);

companyTypeLbl = new JLabel("Company Type");
content.add(companyTypeLbl);
companyTypeLbl.setBounds(50,120,120,20);

companyTypeCombo=new JComboBox();
content.add(companyTypeCombo);
companyTypeCombo.setBounds(190,120,150,20);
companyTypeCombo.addItem("Sole Proprietor");
companyTypeCombo.addItem("Partnership");
companyTypeCombo.addItem("Corporation");
companyTypeCombo.addActionListener(this);

companyAddressLbl = new JLabel("Address");
content.add(companyAddressLbl);
companyAddressLbl.setBounds(50,150,120,20);

companyAddressTxt=new JTextArea();
content.add(companyAddressTxt);
companyAddressTxt.setBounds(190,150,150,50);

// scrollbar
companyAddressScroll=new JScrollPane();
content.add(companyAddressScroll);

companyAddressScroll.setComponentOrientation(Component
Orientation.LEFT_TO_RIGHT);
companyAddressScroll.setBounds(190,150,150,50);

companyAddressScroll.setViewportViewView(companyAddressT
xt);

// textfield and labels

```

```
companyPinCodeLbl = new JLabel("Pin Code");
content.add(companyPinCodeLbl);
companyPinCodeLbl.setBounds(50,210,120,20);
```

```
companyPinCodeTxt = new JTextField();
content.add(companyPinCodeTxt);
companyPinCodeTxt.setBounds(190,210,150,20);
```

```
companyStateLbl = new JLabel("State");
content.add(companyStateLbl);
companyStateLbl.setBounds(50,240,120,20);
```

```
companyStateTxt = new JTextField();
content.add(companyStateTxt);
companyStateTxt.setBounds(190,240,150,20);
```

```
companyFaxLbl = new JLabel("Fax");
content.add(companyFaxLbl);
companyFaxLbl.setBounds(360,30,120,20);
```

```
companyFaxTxt = new JTextField();
content.add(companyFaxTxt);
companyFaxTxt.setBounds(500,30,150,20);
```

```
companyPhoneLbl = new JLabel("Phone");
content.add(companyPhoneLbl);
companyPhoneLbl.setBounds(360,60,120,20);
```

```
companyPhoneTxt = new JTextField();
content.add(companyPhoneTxt);
companyPhoneTxt.setBounds(500,60,150,20);
```

```
companyMobileLbl=new JLabel("Mobile");
content.add(companyMobileLbl);
companyMobileLbl.setBounds(360,90,120,20);
```

```
companyMobileTxt=new JTextField();
content.add(companyMobileTxt);
companyMobileTxt.setBounds(500,90,150,20);
```

```
companyWebsiteLbl = new JLabel("Website");
content.add(companyWebsiteLbl);
companyWebsiteLbl.setBounds(360,120,120,20);
```

```
companyWebsiteTxt = new JTextField();
content.add(companyWebsiteTxt);
companyWebsiteTxt.setBounds(500,120,150,20);
```

```
companyMailLbl = new JLabel("Mail");
content.add(companyMailLbl);
companyMailLbl.setBounds(360,150,120,20);
```

```
companyMailTxt = new JTextField();
content.add(companyMailTxt);
companyMailTxt.setBounds(500,150,150,20);
```

```
companyLogoLbl = new JLabel("Logo");
content.add(companyLogoLbl);
companyLogoLbl.setBounds(360,180,120,20);
```

```
companyLogoTxt = new JTextField();
content.add(companyLogoTxt);
companyLogoTxt.setBounds(500,180,150,20);
companyLogoTxt.setEditable(false);
```

```
establishDateLbl = new JLabel("Established On");
content.add(establishDateLbl);
establishDateLbl.setBounds(360,210,120,20);
```

```
establishDateTxt = new ObservingTextField();
content.add(establishDateTxt);
establishDateTxt.setEditable(false);
```

```

establishDateTxt.setBounds(500,210,150,20);

ImageIcon calendar=new ImageIcon("calendar.jpg");
Image img= calendar.getImage();
Image newimg=
img.getScaledInstance(30,20,java.awt.Image.SCALE_SMOOTH);
calendar=new ImageIcon(newimg);

ImageIcon browse=new ImageIcon("browse2.jpg");
Image img0= browse.getImage();
Image newimg0=
img0.getScaledInstance(30,20,java.awt.Image.SCALE_SMOOTH);
browse=new ImageIcon(newimg0);

ImageIcon next=new ImageIcon("next.jpg");
Image img1= next.getImage();
Image newimg1=
img1.getScaledInstance(150,40,java.awt.Image.SCALE_SMOOTH)
;
next=new ImageIcon(newimg1);

ImageIcon finish=new ImageIcon("finish.jpg");
Image img2= finish.getImage();
Image newimg2=
img2.getScaledInstance(150,40,java.awt.Image.SCALE_SMOOTH)
;
finish=new ImageIcon(newimg2);

ImageIcon cancel=new ImageIcon("cancel.jpg");
Image img3= cancel.getImage();
Image newimg3=
img3.getScaledInstance(150,40,java.awt.Image.SCALE_SMOOTH)
;
cancel=new ImageIcon(newimg3);

datepick=new JButton();

```

```

content.add(datepick);
    datepick.setBounds(650,210,30,20);
    datepick.addActionListener(this);

    browseButton=new JButton();
content.add(browseButton);
browseButton.setBounds(650,180,30,20);
browseButton.addActionListener(this);

//BUTTONS
    nextButton=new JButton("NEXT");
    content.add(nextButton);
    nextButton.setBounds(50,300,150,40);
    nextButton.setFont(new java.awt.Font
("Arial",Font.BOLD,20));
    nextButton.addActionListener(this);

    finishButton=new JButton("FINISH");
    content.add(finishButton);
    finishButton.setBounds(260,300,150,40);
    finishButton.setFont(new java.awt.Font
("Arial",Font.BOLD,20));
    finishButton.addActionListener(this);

    cancelButton=new JButton("CANCEL");
    content.add(cancelButton);
    cancelButton.setBounds(490,300,150,40);
    cancelButton.setFont(new java.awt.Font
("Arial",Font.BOLD,20));
    cancelButton.addActionListener(this);

    datepick.setIcon(calendar);
//    nextButton.setIcon(next);
//    finishButton.setIcon(finish);
//    cancelButton.setIcon(cancel);

```

```

        browseButton.setIcon(browse);

        frame.setBounds(120,150,720,400);
        frame.setSize(720,400);
        frame.setResizable(false);
        frame.setVisible(true);

        frame.setDefaultCloseOperation(JFrame.DO_NOTHING_ON_CLOSE);
    }

    public void actionPerformed(ActionEvent e)
    {
        if(e.getSource()==datepick)
        {
            String lang=null;
            final Locale locale=getLocale(lang);
            DatePicker1 dp=new
DatePicker1(establishDateTxt,locale);
            Date
selectedDate=dp.parseDate(establishDateTxt.getText());
            dp.setSelectedDate(selectedDate);
            dp.start(datepick);
        }

        else if(e.getSource()==browseButton)
        {
            JFileChooser chooser=new JFileChooser();
            chooser.addChoosableFileFilter(new
ImageFileFilter());
            int returnVal= chooser.showOpenDialog(null);

```



```
if(returnVal==JFileChooser.APPROVE_OPTION)
    {
        file=chooser.getSelectedFile();
        path=file.getPath();
        // ImageIcon icon=new ImageIcon(path);
        // label.setIcon(icon);
        companyLogoTxt.setText(path);
//
        repaint();
    }
}
```