#### **PROJECT REPORT**

ON

#### **ISCANIMAGE SYSTEM**

FOR

#### **ISYNERGY SYSTEMS**

BY

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# **Chapter 1: Introduction**

### 1.1 Company profile:

### Introduction-

iSynergy Systems solves mission critical problems for our customers with practical and pragmatic approach. We specialize in creating innovative business applications using right technologies. We have consistently delivered highest quality software within the prescribed timelines. We have offices in Atlanta, USA and Johannesburg, South Africa. We offer our services from our delivery center at Pune, India.

### About Us-

iSynergy Systems was founded in 2006 with the aim of providing product development services to customers all over the world. iSynergy is engaged in developing innovative solutions in

- Product development services to Technology companies.
- Leading edge software development.
- Plug-N-play incubation services to startups

iSynergy Systems ensures strong industry focus with execellent domain and technical skills, leveraging its experience

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in delivering end-to-end solutions and services.

Our founders are pioneers of offshore product developement and leading edge technology work. We offer the right solutions at right price points. iSynergy is an exciting place to work amonst colleagues with deep experience of several successful product engineering efforts.

#### Our Vision-

iSynergy's vision is to increase capital efficiency of investment and reduce the risk of product delivery for our customers, by providing innovative solutions to their mission critical problems. We specialize in and focus on Technology startups and SMEs from all around the world. We take pride in working with distributed, split-shore teams and in loosly defined emerging environments.

#### Our goals are-

- Become a versatile and agile software service delivery organization competing with the best in the industry.
- Strive to assimilate latest technologies to offer the best

options to our customers.

- Build an organization based on values that employs highlynetworked, knowledge-driven, talented and professional engineers
- Consistently maintain quality of work by enforcing standards without compromising on the deliverables or the delivery dates.
- Sustain growth both at the organization level and at the personal level for each and every employee.
- Remain a fully self funded organization with no debt.

### Our Accomplishments-

Since our inception, we have focused on creating value for our customers by offering our experience in what we would do in a situation that the customer faces. We have worked closely with our customers to define product architecture, choice of technology platforms and important milestones to ensure market ready product. We are technology agonistic and have worked in diverse domains like micro lending, real estate management and healthcare.

### 1.2 Existing system and need for system:

### Existing system:

- In manual advertising system, advertisers have to give all content regarding to product in advertisement.
- Advertisement of all the content is costly.
- Advertising media might be for limited period. So no one can easily access advertisement after the limited period of advertising media. (example – Advertisement given in newspaper can be easily accessible for a day only)
- Advertisers do not get statistics about hits of advertisement. It is major drawback because, statistics would be key to decide that same advertisement should continue or it is time to change advertisement.
- All advertisements cannot be manageable from one place.
   Advertisers have to record details of all advertisements at one place which is hectic job.
- Advertiser cannot give video or audio clips in advertisement given at some advertising media like newspapers, magazines etc.

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## Need for system:

- To reduce cost of advertisement.
- To manage all advertisements from one place.
- To give statistics about hits of all advertisements.
- To store large amount of data about each advertisement.
- To access advertisement content until advertiser keeps it.
- To provide audio, video clips along with advertisement.

## 1.3 Scope of work:

- Advertiser can register on web application.
- Advertiser can login into his account on web application.
- After login, advertiser can upload content (video file, audio file, description) along with an image to identify and access that content. (Example – Advertiser can upload a photo of any product with its description. Where photo is used to identify and access the content related to that photo)
- Advertiser can view, edit and delete any contents uploaded by him.
- Advertiser can view and download image which belongs to some content.
- Customer will have mobile application.
- No need to register on mobile application. Customer can directly use it.
- Customer can take photo of image from advertisement and submit it to collect content belonging to that image.
- Server gets request of customer and sends back the contents related to image submitted by customer.

- Mobile application then collects contents from server and displays it to customer.
- Reports will generate for advertiser.
  - Report of most recent uploaded contents.
  - Report of all uploaded contents.
  - Report of hits for images.
    - Total hits.
    - Hits count for certain period.
  - Report of most active images.
    - All time most active.
    - Most active for certain period (example –

Most active in last 24 hours).

## **1.4 Operating environment:**

Hardware requirements

### Minimum requirements

- 1. Processor: Core 2 duo with 2 GHz speed.
- 2. RAM: 1 GB.

### For optimum performance

- 1. Processor: Core 2 duo with 2 GHz speed.
- 2. RAM: 2 GB.

### Software requirements

- 1. Tomcat web server 6 or higher
- 2. Mysql database server
- 3. Web browser Chrome, Firefox, Opera, Internet explorer

### 1.5 Technology used:

#### <u>Java</u>

Java is a general purpose, concurrent, class-based, objectoriented computer programming language that is specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere" (WORA), meaning that code that runs on one platform does not need to be recompiled to run on another. Java applications are typically compiled to bytecode (class file) that can run on any Java virtual machine (JVM) regardless of computer architecture. Java is, as of 2012, one of the most popular programming languages in use, particularly for clientserver web applications, with a reported 10 million users. Java was originally developed by James Gosling at Sun Microsystems (which has since merged into Oracle Corporation) and released in 1995 as a core component of Sun Microsystems' Java platform. The language derives much of its syntax from C and C++, but it has fewer low-level facilities than either of them

#### Java platform:

One characteristic of Java is portability, which means that computer programs written in the Java language must run similarly on any hardware/operating-system platform. This is achieved by compiling the Java language code to an intermediate representation called Java bytecode, instead of directly to platform-specific machine code. Java bytecode instructions are analogous to machine code, but they are intended to be interpreted by a virtual machine (VM) written specifically for the host hardware. End-users commonly use a Java Runtime Environment (JRE) installed on their own machine for standalone Java applications, or in a Web browser for Java applets.

Standardized libraries provide a generic way to access host-specific features such as graphics, threading, and networking.

A major benefit of using bytecode is porting. However, the overhead of interpretation means that interpreted programs almost always run more slowly than programs compiled to native executables would. Just-in-Time (JIT) compilers were introduced from an early stage that compile bytecodes to machine code during runtime

#### **Performance:**

Programs written in Java have a reputation for being slower and requiring more memory than those written in C++. However, Java programs' execution speed improved significantly with the introduction of Just-in-time compilation in 1997/1998 for Java 1.1, the addition of language features supporting better code analysis (such as inner classes, the StringBuffer class, optional assertions, etc.), and optimizations in the Java virtual machine itself, such as HotSpot becoming the default for Sun's JVM in 2000. As of December 2012, microbenchmarks show Java 7 is approximately 44% slower than C++.

#### Automatic memory management:

Java uses an automatic garbage collector to manage memory in the object lifecycle. The programmer determines when objects are created, and the Java runtime is responsible for recovering the memory once objects are no longer in use. Once no references to an object remain, the unreachable memory becomes eligible to be freed automatically by the garbage collector. Something similar to a memory leak may still occur if a programmer's code holds a reference to an object that is no longer needed, typically when objects that are no longer needed are stored in containers that are still in use. If methods for a nonexistent object are called, a "null pointer exception" is thrown

#### Servlet:

Java Servlet technology provides Web developers with a simple, consistent mechanism for extending the functionality of a Web server and for accessing existing business systems. Servlets are server-side Java EE components that generate responses (typically HTML pages) to requests (typically HTTP requests) from clients. A servlet can almost be thought of as an applet that runs on the server side—without a face.

#### **JavaServer Pages:**

JavaServer Pages (JSP) are server-side Java EE components that generate responses, typically HTML pages, to

HTTP requests from clients. JSPs embed Java code in an HTML page by using the special delimiters <% and %>. A JSP is compiled to a Java *servlet*, a Java application in its own right, the first time it is accessed. After that, the generated servlet creates the response.

#### <u>Struts</u>

Apache Struts is an open-source web application framework for developing Java EE web applications. It uses and extends the Java Servlet API to encourage developers to adopt a model–view–controller (MVC) architecture. It was originally created by Craig McClanahan and donated to the Apache Foundation in May, 2000. Formerly located under the Apache Jakarta Project and known as Jakarta Struts, it became a top-level Apache project in 2005.

#### **Design goals and overview:**

In a standard Java EE web application, the client will typically call to the server via a web form. The information is then either handed over to a Java Servlet which interacts with a database and produces an HTML-formatted response, or it is given to a JavaServer Pages (JSP) document that intermingles HTML and Java code to achieve the same result. Both approaches are often considered inadequate for large projects because they mix application logic with presentation and make maintenance difficult.

The goal of Struts is to separate the *model* (application logic that interacts with a database) from the *view* (HTML pages presented to the client) and the *controller* (instance that passes information between view and model). Struts provides the controller (a servlet known as ActionServlet) and facilitates the writing of templates for the view or presentation layer (typically in JSP, but XML/XSLT and Velocity are also supported). The web application programmer is responsible for writing the model code, and for creating a central configuration file struts-config.xml that binds together model, view and controller.

Requests from the client are sent to the controller in the form of "Actions" defined in the configuration file; if the controller receives such a request it calls the corresponding Action class that interacts with the application-specific model code. The model code returns an "ActionForward", a string telling the controller what output page to send to the client. Information is passed between model and view in the form of special JavaBeans. A powerful custom tag library allows it to read and write the content of these beans from the presentation layer without the need for any embedded Java code.

### JQuery

jQuery is a multi-browser JavaScript library designed to simplify the client-side scripting of HTML. It was released in January 2006 at BarCamp NYC by John Resig. It is currently developed by a team of developers led by Dave Methvin. Used by over 55% of the 10,000 most visited websites, jQuery is the most popular JavaScript library in use today.

jQuery is free, open source software, licensed under the MIT License. jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. This enables developers to create abstractions for low-level interaction and animation, advanced effects and high-level, theme-able widgets. The modular approach to the jQuery library allows the creation of powerful dynamic web pages and web applications.

Microsoft and Nokia have announced plans to bundle jQuery on their platforms. Microsoft is adopting it initially within Visual Studio for use within Microsoft's ASP.NET AJAX framework and ASP.NET MVC Framework while Nokia has integrated it into their Web Run-Time widget development platform

#### <u>MySQL</u>

MySQL is (as of 2008) the world's most widely used open source relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases. The SQL phrase stands for Structured Query Language.

The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation.

MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other 'AMP' stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python." Free-software-open source projects that require a full-featured database management system often use MySQL. **Chapter 2: Proposed system** 

### 2.1 Proposed system:

- System will provide web application for advertiser and mobile application for customer.
- Web application will require registration; mobile application will not require registration.
- Advertiser will upload an image of product for which he wants to give advertisement. Along with image its contents should be uploaded.
- Now, advertiser may give advertisement which contains an image uploaded on web application.
- Customer may take photo from our mobile application and submit it to server to receive contents related to that image.
- Server(Web application) will receive request(image) from client(Mobile application). Then server will search best matching image present on server and contents related to that image would be send back to client.
- Client will receive contents and display it on mobile device. Description will be displayed as text, if audio or video clips are present, it will be played.

- Server will maintain hits for each request received from client. It will be used in generation of reports.
- Various reports will be provided to advertiser.

## 2.2 Objectives of system:

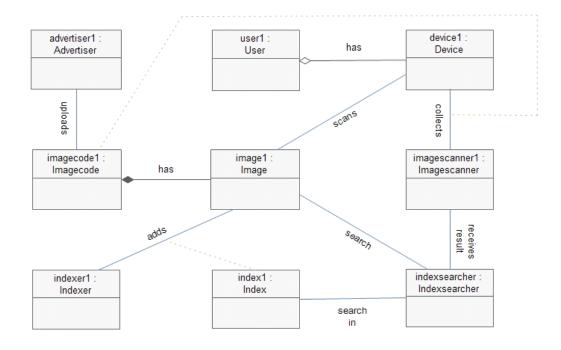
- To automate the manual system.
- To reduce cost of advertisement.
- To provide management of all advertisements from one place.
- To give statistics about hits of all advertisements.
- To store large amount of data about each advertisement.
- To access advertisement content until advertiser keeps it.
- To provide audio, video clips along with advertisement.

## 2.3 User requirements:

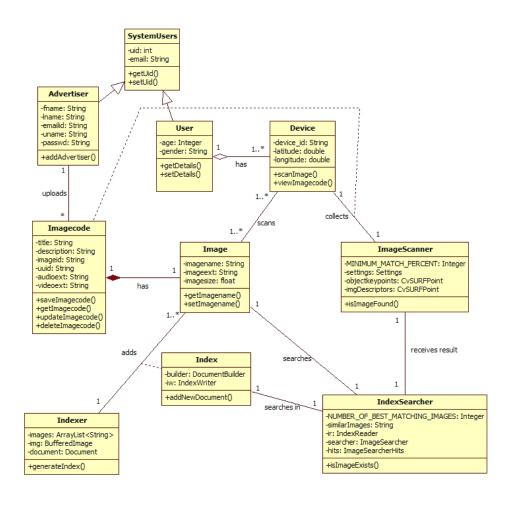
- System should reduce cost of advertisement.
- System should provide management of all advertisements from one place.
- System should give statistics about hits of all advertisements.
- System should store large amount of data about each advertisement.
- System should allow advertiser to keep content of advertisements until advertiser wants to keep it.
- System should provide to store audio, video clips along with advertisement.

# **Chapter 3: Analysis and Design**

## 3.1 Object diagram:

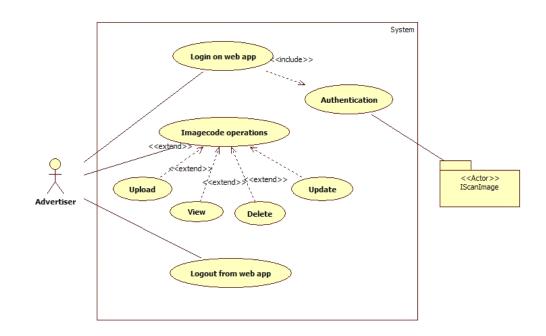


## 3.2 Class diagram:

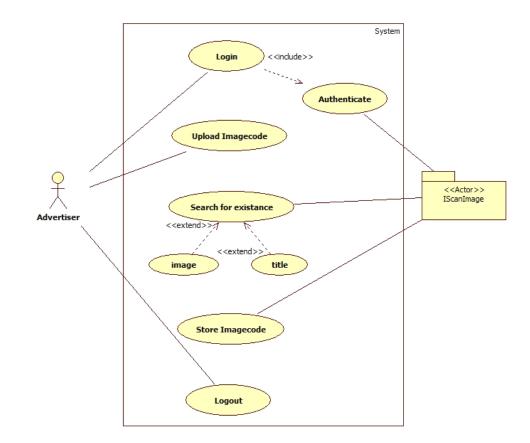


## 3.3 Use Case diagrams:

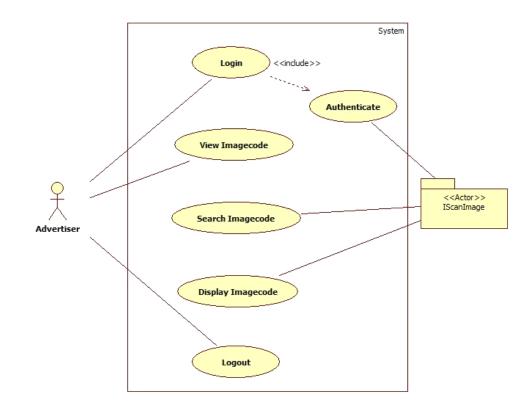
3.3.1 Combined usecase



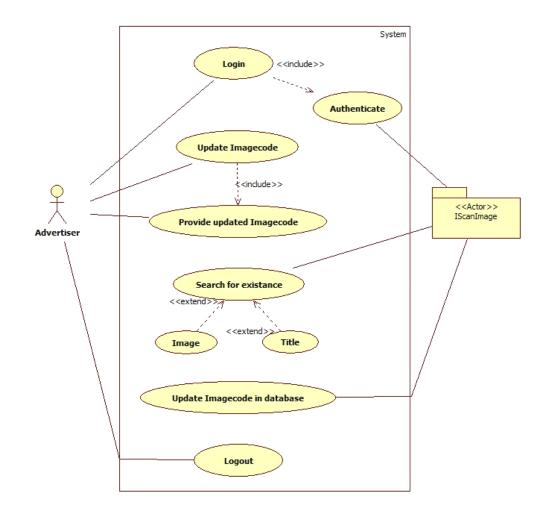
## 3.3.1 Upload Imagecode usecase



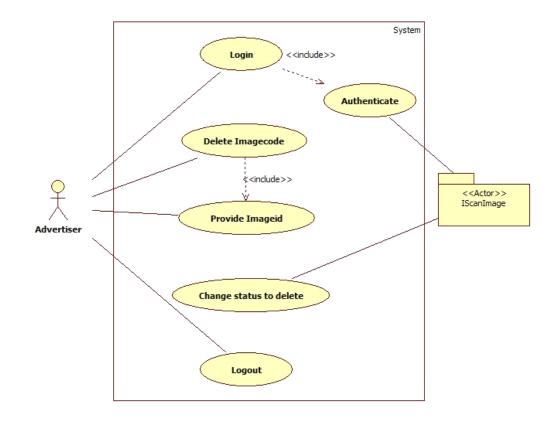
## 3.3.2 View Imagecode usecase



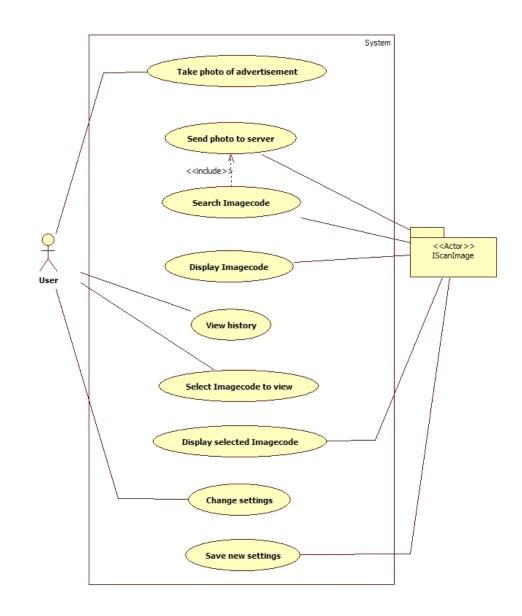
## 3.3.3 Update Imagecode usecase



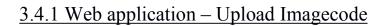
## 3.3.4 Delete Imagecode usecase

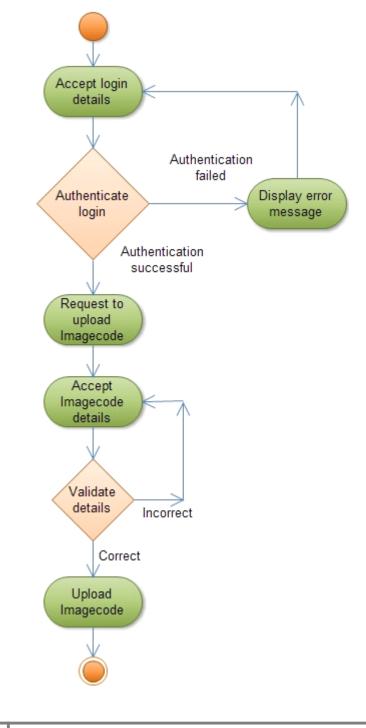


## 3.3.5 Mobile application usecase

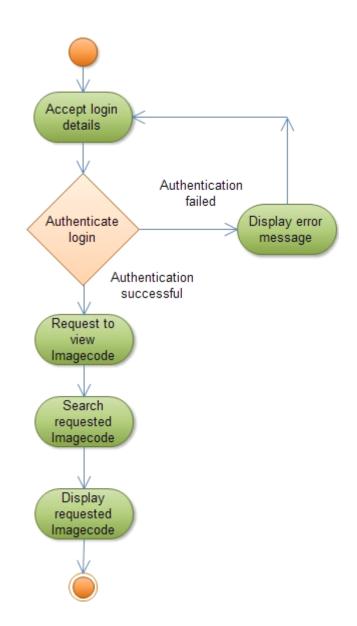


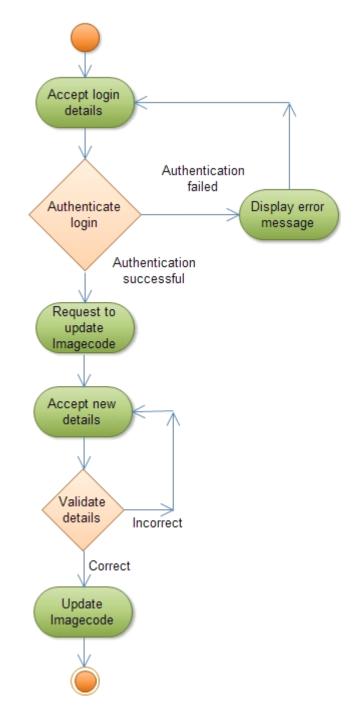
# 3.4 Activity diagram:



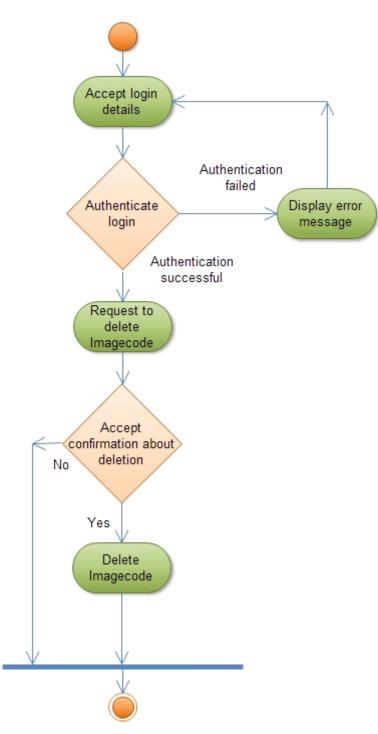


# 3.4.2 Web application – View Imagecode



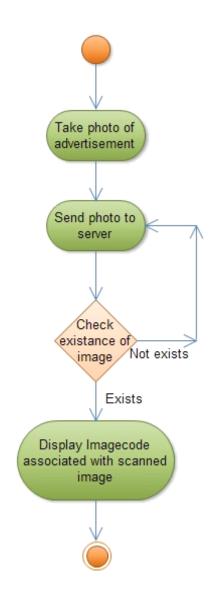


# <u>3.4.3 Web application – Update Imagecode</u>

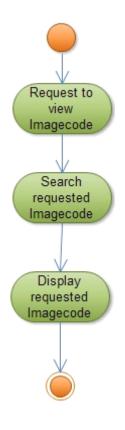


# <u>3.4.4 Web application – Delete Imagecode</u>

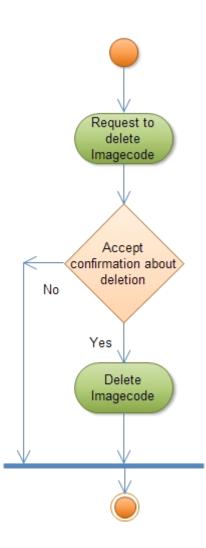
# <u>3.4.5 Mobile application – Upload Imagecode</u>



# <u>3.4.6 Mobile application – View Imagecode</u>

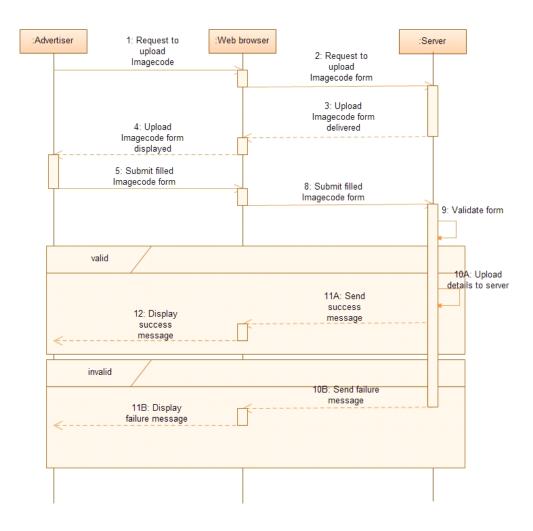


# <u>3.4.7 Mobile application – Delete Imagecode</u>

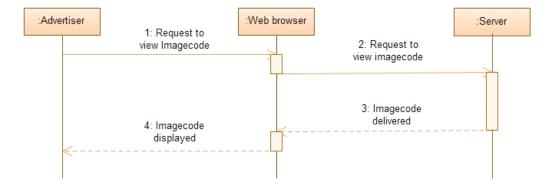


# 3.5 Sequence diagram:

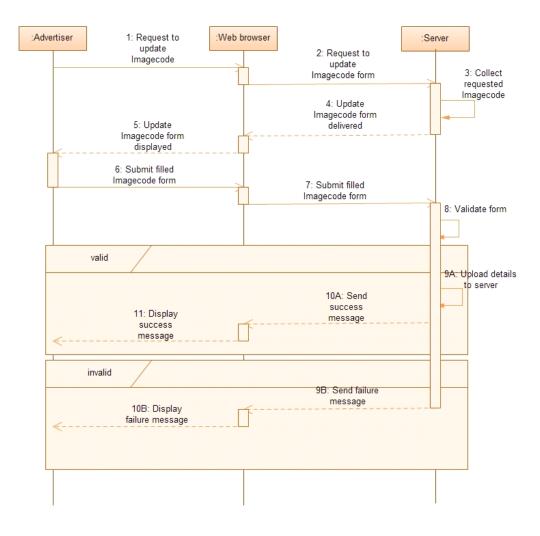
## 3.5.1 Upload Imagecode



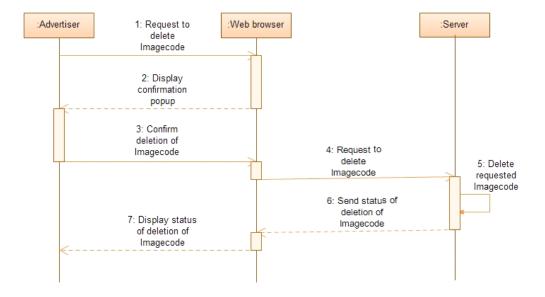
# 3.5.2 View Imagecode



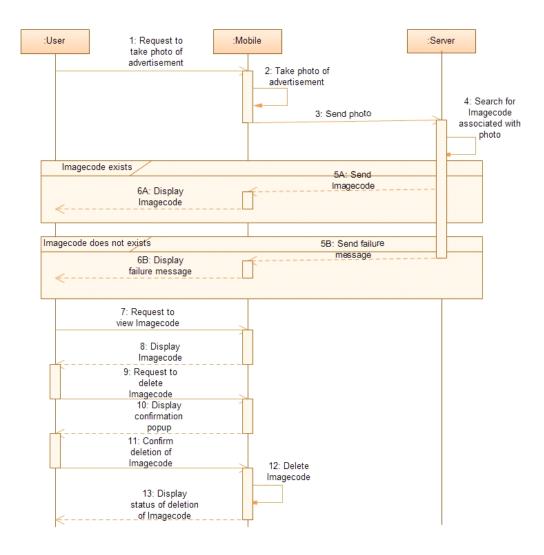
# 3.5.3 Update Imagecode



# 3.5.4 Delete Imagecode

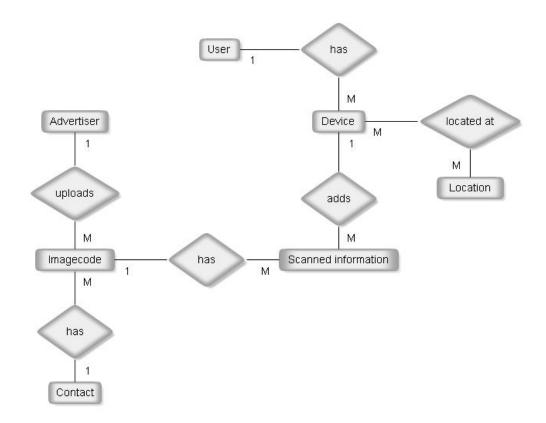


# 3.5.5 Mobile application

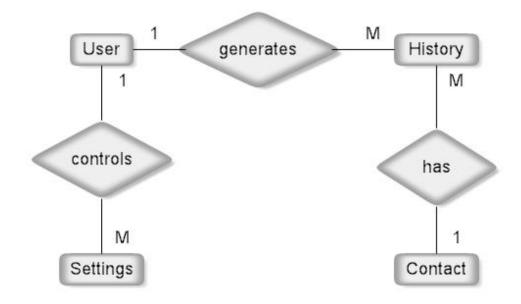


# 3.6 Entity Relationship diagram:

3.6.1 Web application

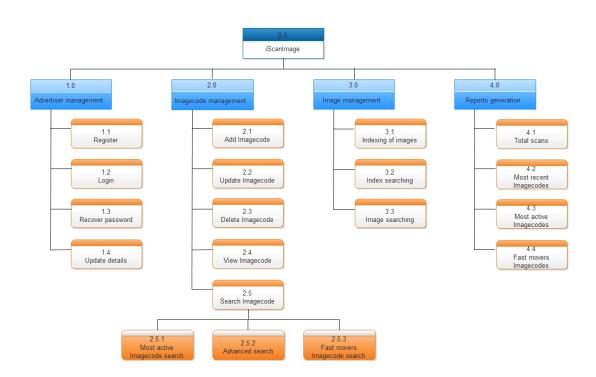


# 3.6.2 Mobile application

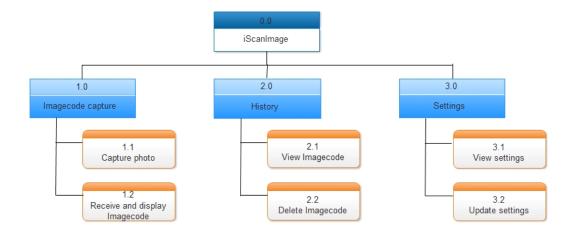


# 3.7 Module Hierarchy diagram:

3.7.1 Web application

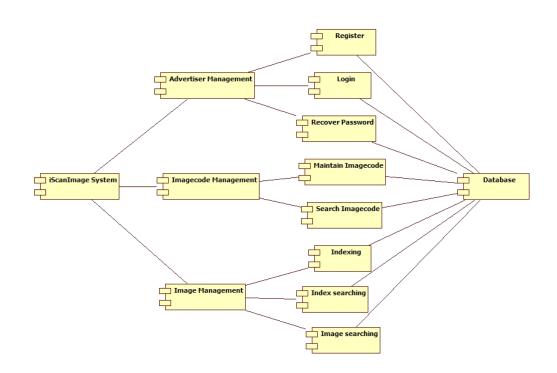


# 3.7.2 Mobile application

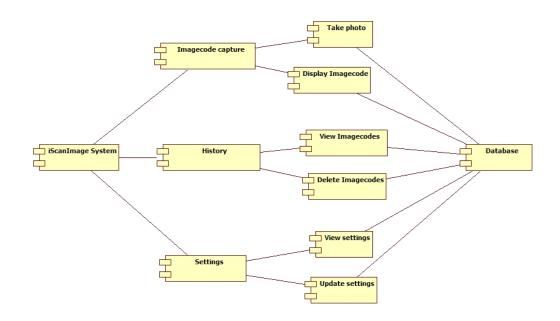


# 3.8 Component diagram:

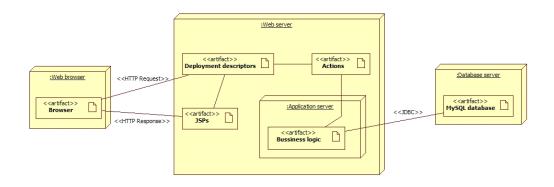
3.8.1 Web application



# 3.8.2 Mobile application



# 3.9 Deployment diagram:



## **3.10 Modules specification:**

## Web Application

### 1.0 Advertiser management

In this module, advertiser management is done which includes various submodules as follows-

### 1.1 Register

In this module, registration of new advertiser is done. First name, Last name, Email id, Gender, Username, Password is accepted from advertiser to register a new account. Username and Email id are unique fields.

### 1.2 Login

In this module, username and password is collected from advertiser to login. After submitting correct username and password, advertiser will redirect to Home page of his/her account.

### 1.3 Recover password

In this module, recovery of password is provided for advertiser. Advertiser needs to submit his/her email id (provided at the time of registration). Email id is searched in user table, if it exists, corrosponding username and password are sent on email id.

#### 1.4 Update details

In this module, advertiser can update his/her profile and can change account password. Advertiser can only change his/her first name and last name in profile. Other details can not be changed. Change password module accepts current password and new password, if current password is correct, password will be changed.

### 2.0 Imagecode management

In this module, imagecode management is done which includes various submodules as follows-

#### 2.1 Add imagecode

In this module, imagecode is accepted from advertiser and stored into database. It accepts title, image, description, website address, contact details, audio file and video file. Audio file and video file is not mandatory, other details are mandatory to provide. After accepting these details, it checks for existance of image and title. If image or title exists, details are not stored and error message is given to advertiser.

#### 2.2 Update imagecode

In this module, current details of imagecode are displayed. Advertiser can update details except image and title.

#### 2.3 Delete imagecode

In this module, imagecode id is provided by advertiser and corresponding imagecode is deleted from database after confirmation by advertiser.

#### 2.4 View imagecode

In this module, imagecode id is provided by advertiser and corresponding imagecode is displayed on screen. Advertiser can play video and audio file if present, also can get reports about hits to that imagecode. Advertiser can also download data as csv file.

#### 2.5 Search imagecode

In this module, advertiser can search imagecode by various filters as follows-

#### 2.5.1 Most active imagecodes search

In this search, advertiser will provide period like as last 24 hours or 1 week or total and according to period selected, list of most active imagecodes for that period will be displayed.

#### 2.5.2 Advanced search

In this search, advertiser can provide title and/or description and/or date period and/or contact type, according to it imagecodes will be displayed.

#### 2.5.3 Fast movers imagecodes search

In this search, advertiser will provide period like as last 24 hours or 1 week or total and according to period selected, list of fast movers imagecodes for that period will be displayed.

#### 3.0 Image management

In this module, image management is done.

#### 3.1 Indexing of images

When advertiser uploads an image with imagecode, image file is added to existing index or new index is created. Index makes searching the contents of image faster.

#### 3.2 Index searching

In this module, image is searched in index and best matching 25 images are sorted out to search most matching image with requested image.

#### 3.3 Image searching

In this module, image is searched in accepted best matching 25 images and best matching image is delivered.

### 4.0 Reports generation

In this module, various reports are generated.

#### 4.1 Total scans

In this module, total scans per day for all imagecodes report is generated and total scans per day for 1 imagecode report is generated.

### 4.2 Most recent imagecodes

In this module, most recent uploaded imagecodes are displayed.

#### 4.3 Most active imagecodes

In this module, most active imagecodes are displayed.

### 4.4 Fast movers imagecodes

In this module, fast movers imagecodes are displayed.

### Mobile Application

### 1.0 Imagecode capture

In this module, image capturing and accepting its corresponding imagecode is to be done.

#### 1.1 Capture photo

In this module, photo is captured by camera of mobile. It will send it to server to receive imagecode.

### 1.2 Receive and display imagecode

In this module, result from server will receive. If imagecode exists for submitted image, it will display, else error message will display and camera should open.

## 2.0 History

In this module, history of scanned imagecodes will be maintained.

### 2.1 View imagecode

In this module, imagecode can be selected to display. Selected imagecode will display on mobile.

### 2.2 Delete imagecode

In this module, user will provide imagecode id and it will be deleted after confirmation by user.

## 3.0 Settings

In this module, settings related to application will be maintained. Settings like send personal details, send location etc.

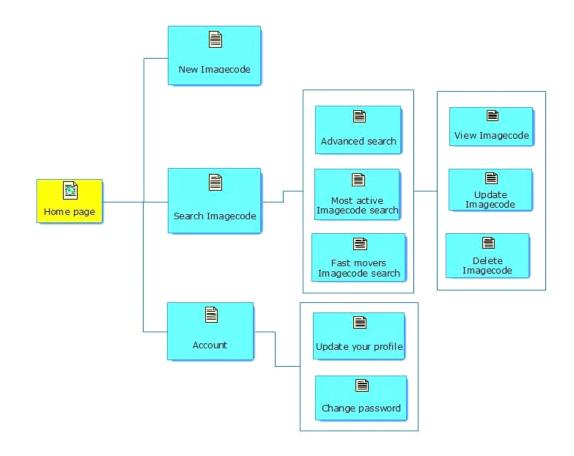
### 3.1 View settings

Settings can be viewed.

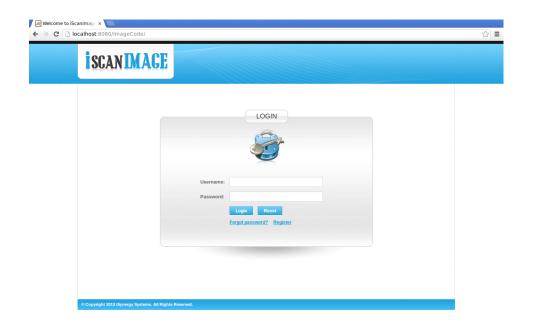
### 3.2 Update settings

Settings can be updated.

# 3.11 Web sitemap diagram:



# 3.12 User interface design:



<b>ISCANIMAGE</b>	Welcome: morakshay Logout
Home New Search Account	
Select Date:-         From:         0304/2013         To:         0904/2013         View           1	Table         Chart         Period         24 hrs         •           Title         Total Hits         Hits in last period         No Active Imagecodes
2013-04-03 2013-04-04 2013-04-05 2013-04-06 2013-04-07 2013-04-08 2013-04-09           Most Recent Uploaded Image Codes         Title         Date Create         Total Hits         Hits in Last 24 hours         Actions           No recent uploaded Imagecodes         No recent uploaded Imagecodes         No recent uploaded Imagecodes         Actions	Fast Movers ImageCodes           Table         Chart         Period         24 hrs         •           Title         Total Hits         Hits in last period         No Fast Movers Imagecodes
	Time Period Breakup Period : 24 hrs
	No Uata Available to snow time period breakup for selected period.

<b>ISCANIMACE</b>	Welcome: morakshay Logout
Home New Search Account	
Create New ImageCode	
* Title :	
* Image to Upload :	Choose File No file chosen
* Description :	
• Go to Website :	
Contact Type :	Select Type •
Audio to upload :	Choose File No file chosen
Video to Upload :	Choose File No file chosen
	Upload Clear

# iScanImage System

ISCANIMACE	Welkome: merakshay Logout
Home New Search Accou	
Seach ImageCodes	
Advanced Search Most Active	Fast Movers
Title	Containing •
Description	: Containing
Date	From: To:
Contact Type	Call Email SMS
	search
Search Result	

2

ISCAN IMAGE	Welcome: moralshay Logour
Home New Search	Account
Seach ImageCodes	
Advanced Search Most A	ctive Fast Movers
Most	Active: 24 hrs •
	search
Search Result	

		Welcome: morakshay
ISCANIMACE		
Home New Search Acco	nt	
Seach ImageCodes		
Advanced Search Most Active	Fast Movers	
Fast Mover	24 hrs 🔻	
	search	
Search Result		

<b>ISCANIMACE</b>	Welcome: morakshay Logou
Home New Search Account	
Account	
Update Profile Change Password	
* First Name :	akshay
• Last Name :	morgaonkar
Email ID :	akshay.morgaonkar@yahoo.com
Gender :	Male     Female
Username :	morakshay
* Current password :	
	Submit Clear

iScanImage System

2

R

<b>İSCANIMACE</b>		Welcome: morakshay
Home New Search	Account	
Account		
Update Profile Change I	Password	
* Current pa	ssword :	
* New pa	ssword :	
* Re-type new pa	ssword :	
	Submit Clear	

Welcome to iScanImag	y × ↓     st 8080/ImageCode/ForgotPassword.action     st 8080/ImageCode/ForgotPassword.action	
i	SCAN IMAGE	
	Recover your account password	
	Enter your email id. We will send your password by email.	
	• Email id :	
	Submit	
	Login Register	

# iScanImage System

<b>iscanIMACE</b>			
Register			
• First Name :			
* Last Name :			
* Email ID :			
* Gender :	0	Male Female	
• Username :			
* Password :			
* Re-type Password :			
	Register Clear		
	Login Forgot passw	ord?	

# **3.13 Table specifications:**

# 3.13.1 Tables in Web application

#### Table name : Advertiser

Name	Data type	Length	Constraints	Description
uid	int	-	Primary key	Userid
user_name	varchar	25	-	User_name
passwd	varchar	25	-	Password
fname	varchar	20	-	First name
lname	varchar	20	-	Last name
email	varchar	100	-	Email id
gender	varchar	1	-	Gender

#### Table name : Contact

Name	Data type	Length	Constraints	Description
contact_id	int	-	Primary key	Contactid
contact_type	varchar	10	-	Contact type
contact_value	varchar	30	-	Contact value

## Table name : Imagecode

Name	Data type	Length	Constraints	Description
image_id	int	-	Primary key	Imagecodeid
contact_id	int	-	Foreign key	Reference to
				Contact
uid	int	-	Foreign key	Reference to
				Advertiser
uuid	varchar	256	-	uuid is unique
				name of
				image, audio,
				video
title	varchar	256	-	Title of
				Imagecode

uploaded_ima ge	varchar	10	-	Extension uploaded image	of
description	varchar	800	-	Description Imagecode	of
upload_date	date	-	-	Imagecode uploaded dat	e
website	varchar	30	-	Website Imagecode	of
audio	varchar	10	-	Audio f	ile
video	varchar	10	-	Video fi extension	ile
status	varchar	1	-	Existance status Imagecode	of

## Table name : Scanned\_Information

Name	Data type	Length	Constraints	Description
scanned_id	int	-	Primary key	Imagecode
				scanid
imagecode_sca	int	-	Foreign key	Reference to
nned_image_i				Imagecode
d				
device_id	int	-	Foreign key	Reference to
				Device
imagecode_sca	date	-	-	Imagecode
nned_date				scanned date
imagecode_sca	time	-	-	Imagecode
nned_time				scanned time

### Table name : User

Name	Data type	Length	Constraints	Description
user_id	int	-	Primary key	User_id
user_email	varchar	100	-	User email
user_age	int	-	-	User age
user_gender	varchar	1	-	User gender

### Table name : Device

Name	Data type	Length	Constraints	Description
scanned_devic	int	-	Primary key	Device id key
e_key				
user id	int	-	Foreign key	Reference to
				User
scanned_devic	varchar	256	-	Device id
e_id				

### Table name : Location

Name	Data type	Length	Constraints	Description
location_id	int	-	Primary key	Location id
latitude	double	-	-	Latitude
longitude	double	-	-	Longitude

## Table name : location\_device

Name	Data type	Length	Constraints	Description
device_id	int	-	Foreign key	Reference to
				Location table
location id	Int	-	Foreign key	Reference to
				Device table

# 3.13.2 Tables in Mobile application

#### Table name : User

Name	Data type	Length	Constraints	Description
user_id	int	-	Primary key	Userid
user_email	varchar	100	-	User email
user_age	int	-	-	User age
user_gender	varchar	1	-	User gender

#### Table name : Settings

Name	Data type	Length	Constraints	Descriptio	n
setting_id	int	-	Primary key	Settingid	
user_id	int	-	Foreign key	Reference	to
				User	
setting_name	varchar	30	-	Name	of
				setting	
setting_value	varchar	5	-	Value	of
				setting	

#### Table name : Contact

Name	Data type	Length	Constraints	Description
contact_id	int	-	Primary key	Contactid
contact_type	varchar	10	-	Contact type
contact_value	varchar	30	-	Contact value

## Table name : History

Name	Data type	Length	Constraints	Description
history_id	int	-	Primary key	Userid
user_id	int	-	Foreign key	Reference to
				User
contact_id	int	-	Foreign key	Reference to
				Contact
uuid	varchar	256	-	uuid is unique
				name of
				image, audio,
				video
title	varchar	256	-	Title of
				Imagecode
uploaded_ima	varchar	10	-	Extension of
ge				uploaded
				image
description	varchar	800	-	Description of
				Imagecode
website	varchar	30	-	Website of
				Imagecode
audio	varchar	10	-	Audio file
				extension
video	varchar	10	-	Video file
				extension
status	varchar	1	-	Existance
				status of
				Imagecode

# **3.15 Test procedures and implementation:**

Test case ID	1
Test case name	Validate login

Test ease		Test steps		
Test case Description	Input	Expected output	Actual output	Status
To verify that	Do not enter username and password on login page and submit form	An error message "Please enter username and password" should display	An error message "Please enter username and password" is displayed	Pass
username and password on login page should not be empty	Do not enter username on login page and submit form	An error message "Please enter username" should display	An error message "Please enter username" is displayed	Pass
	Do not enter password on login page and submit form	An error message "Please enter password" should display	An error message "Please enter password" is displayed	Pass
To verify that username and password on login page is exists in database	Enter username and password where username and/or password not exists in	An error message "Incorrect username and/or password" should display	An error message "Incorrect username and/or password" is displayed	Pass

database Enter username and password	Should redirect to	Redirected to Home page	Pass
which exists in database	Home page	Home page	

Test case ID	2
Test case name	Validate registration

Tost aga				
Test case Description	Input	Expected output	Actual output	Status
	Do not enter any data and submit registration form	An error message "Please enter your details" should display	An error message "Please enter your details" is displayed	Pass
Mandatory fields validation	Leave mandatory fields as blank one at a time and submit registration form	An error message for empty mandatory field should display	An error message for empty mandatory field displayed	Pass
Email id existance validation	Enter email id which exists in database	An error message "Account for ' <email id="">' already exists. Please use another email id to register"</email>	An error message "Account for ' <email id="">' already exists. Please use another email id to register" is</email>	Pass

		should display	displayed	
	Enter email id which does not exists in database	Registration should be successful	Registration is successful	Pass
Username existance validation	Enter username which exists in database	An error message "Username already exists" should display	An error message "Username already exists" is displayed	Pass
vandation	Enter username which does not exists in database	Registration should be successful	Registration is successful	Pass

Test case ID	3
Test case name	Validate forgot password

Tost coso	Test steps			
Test case Description	Input	Expected output	Actual output	Status
To verify that email id to recover password should not be empty	Do not enter email id on forgot password page and submit form	An error message "Please enter email id" should display	An error message "Please enter email id" is displayed	Pass
To verify that email id to recover password should exists in	Enter email id which does not exists in database	An error message "Account for ' <email id="">' does not</email>	An error message "Account for ' <email id="">' does not</email>	Pass

database		exists" should display	exists" is displayed	
	Enter email id which exists in database	Email containing username and password should be send to entered email id	Email containing username and password is successfully sent to entered email id	Pass
To verify recovered username and password is correct	Enter username and password accepted by email	Login should be successfull	Login is successfull	Pass

Test case ID	4
Test case name	Validate insertion of new
	Imagecode

Test	Test steps			
Test case Description	Input	Expected output	Actual output	Status
To verify mandatory fields validation	Click on upload button without entering data	An error message "Please enter mandatory fields" should be displayed	An error message "Please enter mandatory fields" is displayed	Pass
To verify Title	Enter existing title	An error message "Title already	An error message "Title already	Pass

	Enter non existing title	exists" should be displayed Must allow uploading of	exists" is displayed Allowed uploading of	Pass
	Select existing image to upload	Imagecode An error message "Image already exists" should be displayed	Imagecode An error message "Image already exists" is displayed	Pass
To verify Image	Select file other than jpg and png to upload	An error message "Please upload jpeg or png image file" should be displayed	An error message "Please upload jpeg or png image file" is displayed	Pass
	Select image file of type jpg or png to upload which is not exists	Must allow uploading of Imagecode	Allowed uploading of Imagecode	Pass
To verify website address	Enter invalid website address	An error message "Please enter valid website address" should be displayed	An error message "Please enter valid website address" is displayed	Pass
	Enter valid website address	Must allow uploading of Imagecode	Allowed uploading of Imagecode	Pass
To verify contact	Select "sms" type and	An error message	An error message	Pass

information	enter invalid number	"Please enter valid contact infomation" should be displayed	"Please enter valid contact information" is displayed	
	Select "sms" type and enter valid number	Must allow uploading of Imagecode	Allowed uploading of Imagecode	Pass
	Select "call" type and enter invalid number	An error message "Please enter valid contact infomation" should be displayed	An error message "Please enter valid contact information" is displayed	Pass
	Select "call" type and enter valid number	Must allow uploading of Imagecode	Allowed uploading of Imagecode	Pass
	Select "email" type and enter invalid email id	An error message "Please enter valid contact infomation" should be displayed	An error message "Please enter valid contact information" is displayed	Pass
	Select "email" type and enter valid email id	Must allow uploading of Imagecode	Allowed uploading of Imagecode	Pass
To verify insertion of imagecode	Fill all information correctly and upload it	Must save imagecode and should give message "Imagecode saved successfully"	Imagecode saved and message displayed "Imagecode saved successfully"	Pass

Test case ID	5
Test case name	Validate deletion of imagecode

Testesse	Test steps			
Test case Description	Input	Expected output	Actual output	Status
To verify deletion of imagecode	Click on delete link displyed for imagecode on various pages	Must delete corrosponding imagecode after taking confirmation	Confirmation message displyed and corrosponding imagecode deleted after confirmation	Pass

Test case ID	6
Test case name	Validate searching of Imagecodes

Test esse	Test steps			
Test case Description	Input	Expected output	Actual output	Status
To verify advanced search	Leave all fields blank and select any contact type(s) to search. Enter title and select containing option then click on search	All imagecodes satisfying contact types must be displayed All imagecodes having entered title in there title names must	All imagecodes which satisfies contact type are displyed All imagecodes having entered title in there title names are	Pass
	Enter title and select	be displayed All imagecodes	displayed All imagecodes	Pass

	exactly option then click on search	having title exactly same as entered title must be displayed	having title exactly same as entered title are displayed	
	Enter description then click on search	All imagecodes having entered description in there descriptions must be displayed	All imagecodes having entered description in there descriptions are displayed	Pass
	Enter from date greater than to date and click on search	An error message "From date must be less than or equal to to date" must be displyed	An error message "From date must be less than or equal to to date" is displyed	Pass
	Enter from date less than or equal to to date and click on search	All imagecodes uploaded in given date range must be displayed	All imagecodes uploaded in given date range are displayed	Pass
	Enter all details with different combinations	All imagecodes which satisfies given search criteria must be displyed	All imagecodes which satisfies given search criteria are displyed	Pass
To verify most active imagecodes search	Select period from drop down list and click on	All imagecodes must be displayed in	All imagecodes must be displayed in	Pass

	search	descending order where most active imagecode for selected period must be at first position All	descending order where most active imagecode for selected period is at first position	
To verify fast movers imagecodes search	Select period from drop down list and click on search	All imagecodes must be displayed in descending order where fast mover imagecode for selected period must be at first position	All imagecodes must be displayed in descending order where fast mover imagecode for selected period is at first position	Pass

Test case ID	7
Test case name	Validate update profile

Test case Description	Test steps			
	Input	Expected output	Actual output	Status
To verify update profile	Enter letters other than alphabets in first name and last name	An error message "Only alphabets are allowed in first name and last name" must be displayed	An error message "Only alphabets are allowed in first name and last name" is displayed	Pass
	Enter	Updation	Updation is	Pass

alphabets in first name and last name and click update	should be successfull	successfull	
Enter incorrect password to update profile	An error message "Password is incorrect" must be displayed and should not update profile	An error message "Password is incorrect" is displayed and profile is not updated	Pass
Enter correct password to update profile	Updation should be successfull	Updation is successfull	Pass

Test case ID	8
Test case name	Validate change password

Test case Description	Test steps			
	Input	Expected output	Actual output	Status
To verify change	Enter incorrect current password	An error message "Password is incorrect" must be displayed	An error message "Password is incorrect" is displayed	Pass
password module	Enter new password less than 6 or greater than 25 characters	An error message "Password must be between 6 to 25	An error message "Password must be between 6 to 25	Pass

1		1	1	l .
		characters"	characters" is	
		should be	displayed	
		displayed		
-		An error		
		message	An error	
	Enter new	"Retyped	message	
	password	password did	"Retyped	
	and enter	not match	password did	
	retyped	with new	not match	
	password	password"	with new	Pass
	which do not	should be	password" is	
	match with	displayed	displayed	
	new	and	and	
	password	password	password did	
		must not	not changed	
		changed	C	
		Password	D 1.	
	Enter all	must be	Password is	
	correct	updated to	updated to	Pass
	details	new	new	
		password	password	

Test case ID	9
Test case name	Validate view imagecode

Test case Description	Test steps			
	Input	Expected output	Actual output	Status
To verify website link	Click on website address	Website of given website address should be loaded	Website of given website address is loaded	Pass
To verify view link of image	Click on button of	Image associated	Image associated	Pass

I		with	with	
	view image	with imagecode should be displayed	with imagecode is displayed	
To verify download link of image	Click on button of download image	Zip file containing image should be allowed to download	Zip file containing image is allowed to download	Pass
To verify download raw	Enter from date greater than to date and click on download	An error message "From date must be less than or equal to to date" must be displyed	An error message "From date must be less than or equal to to date" is displyed	Pass
data for imagecode	Enter from date less than or equal to to date and click on download	CSV file containing imagecode scanned data must be allowed to download	CSV file containing imagecode scanned data is allowed to download	Pass
To verify total scans report	Enter from date greater than to date and click on view	An error message "From date must be less than or equal to to date" must be displyed	An error message "From date must be less than or equal to to date" is displyed	Pass
	Enter from date less than or equal to to date and click on view	Area chart of total scans of imagecode for given period must be displayed	Area chart of total scans of imagecode for given period is displayed	Pass
To verify time	Select period	Pie chart of	Pie chart of	Pass

period breakup report	from drop down list	time period breakup for selected period should be displayed	time period breakup for selected period is displayed
--------------------------	------------------------	--	--

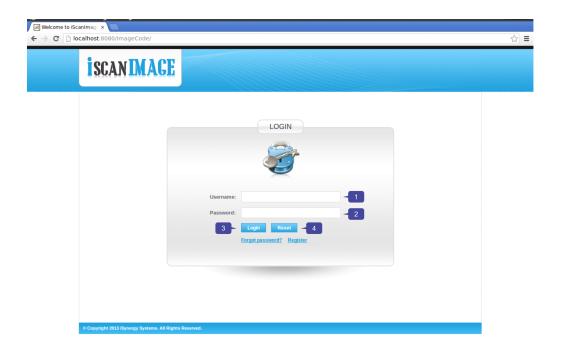
Test case ID	10
Test case name	Validate reports displayed on
	homepage

Test case	Test steps			
Description	Input	Expected output	Actual output	Status
To verify total	Enter from date greater than to date and click on view	An error message "From date must be less than or equal to to date" must be displyed	An error message "From date must be less than or equal to to date" is displyed	Pass
scans report	Enter from date less than or equal to to date and click on view	Area chart of total scans of all imagecodes for given period must be displayed	Area chart of total scans of all imagecodes for given period is displayed	Pass
To verify most recent uploaded imagecodes	-	All imagecodes must be displayed in descending order where most recent uploaded	All imagecodes are displayed in descending order where most recent uploaded	Pass

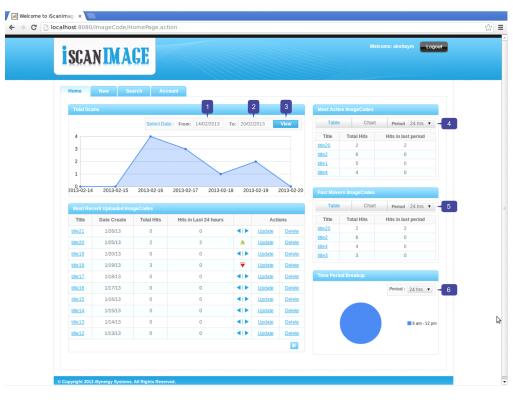
		imagecode should be at first position	imagecode is at first position	
To verify most active	Select period from drop down list and click on table tab	Table of top 4 most active imagecodes should be displayed	Table of top 4 most active imagecodes is displayed	Pass
imagecodes report	Select period from drop down list and click on chart tab	Chart of top 4 most active imagecodes should be displayed	Chart of top 4 most active imagecodes is displayed	Pass
To verify fast movers	Select period from drop down list and click on table tab	Table of top 4 fast movers imagecodes should be displayed	Table of top 4 fast movers imagecodes is displayed	Pass
imagecodes report	Select period from drop down list and click on chart tab	Chart of top 4 fast movers imagecodes should be displayed	Chart of top 4 fast movers imagecodes is displayed	Pass
To verify time period breakup report	Select period from drop down list	Pie chart of time period breakup for selected period for all imagecodes should be displayed	Pie chart of time period breakup for selected period for all imagecodes is displayed	Pass

Chapter 4: User manual

# 4.1 User manual



1	Enter username in this field
2	Enter password in this field
3	Login button to login into your account
4	Reset button to clear entered username and password



1	Select from date for report of total scans of Imagecodes
2	Select to date for report of total scans of Imagecodes
3	View button to view total scans of imagecodes report for given
3	date range
1	Select period from drop down list which contains values - 24 hrs
4	and 1 week to view most active Imagecodes for selected period
5	Select period from drop down list which contains values - 24 hrs
5	and 1 week to view fast movers Imagecodes for selected period
	Select period from drop down list which contains values - 24 hrs
6	and 1 week to view time period breakup for scanning of
	Imagecodes for selected period

<b>ISCANIMACE</b>		Welcome: akshaym Logout
Home New Search Account		
Create New ImageCode		
• Title :	title22 -1	
* Image to Upload :	Choose File 1d5106af-b07defa9f.jpg	
* Description :	desc of title22	
		\$
	le la	M2
• Go to Website :	www.web.com	
Contact Type :	Call • 9890987678 - 5	
Audio to upload :	Choose File No file chosen - 6	
Video to Upload :	Choose File No file chosen - 7	
	Upload Clear	

1	Enter title for imagecode
2	Choose image to upload along with imagecode
3	Enter description of imagecode
4	Enter website address for imagecode
5	Enter contact type as sms, email or call. For sms, enter mobile number or 5 digit number. For call, enter mobile number and for email, enter email id.
6	Enter audio file for imagecode. It is not mandatory to upload audio file.
7	Enter video file for imagecode. It is not mandatory to upload video file.
8	Button to upload imagecode
9	Button to clear all details

SCAN	IMAGE						me: akshaym 🛛 📕 Lo
Home N	ew Search Account						
Seach Image	Codes						
Advance	d Search Most Active	Fast Movers					
	Title :	Containing  title2				- 1	
	Description :	Containing				- 2	\$
		From:	To:		3		
	Contact Type :	Call Email S	_	-			
		search - 5					
Search Res							
title2	desc of title2	1/3/13	6	0		Update	Delete
title20	desc of title20	1/25/13	2	2	<b>A</b>	Update	Delete
title21	desc of title21	1/26/13	0	0		Update	Delete
title22	desc of title22	2/20/13	0	0	< I >	Update	Delete

1	Enter title to search. Select option from containing and exactly. Containing will display result which contains entered title in there title. Exactly will display result which has entered title as same as there title.
2	Enter description to search. Imagecodes which contains entered description in there description will be displayed.
3	Enter from date and to date to search. Imagecodes uploaded in the given date range will be displayed.
4	Select contact type to search. At least one contact type must be selected.
5	Button to display all imagecodes fullfilling submitted criteria

N - / N	IMAGE						shaym Log
JUNIT							
Home Ne	w Search /	Account					
Seach ImageC	Codes						
Advanced	Search Most A	tive Fast Mover	rs				
	Most	Active : 24 hrs 🔻	-11				
					N		
		search	2		3		
Search Resu	itt						
Title	Description	Date Create	Total Hits	Hits in last period		Act	ions
<u>title20</u>	desc of title20	25/01/2013	2	2	<b></b>	<u>Update</u>	Delete
title2	desc of title2	03/01/2013	6	0		<u>Update</u>	Delete
<u>title1</u>	desc of title1	01/01/2013	5	0		<u>Update</u>	Delete
<u>title4</u>	desc of title4	05/01/2013	4	0		<u>Update</u>	Delete
title18	desc of title18	19/01/2013	3	0	▼	Update	Delete
<u>title3</u>	desc of title3	03/01/2013	3	0		<u>Update</u>	Delete
title22	desc of title22	20/02/2013	0	0		<u>Update</u>	Delete
title21	desc of title21	26/01/2013	0	0		Update	Delete
title19	desc of title19	20/01/2013	0	0		<u>Update</u>	Delete
title17	desc of title17	18/01/2013	0	0		Update	Delete

1		Select period from drop down list which contains values - 24 hrs, 1 week and all time to view most active Imagecodes for selected period
	2	Button to display most active imagecodes for selected period

SCAN	IMAGE						shaym Log
lome N	lew Search	Account					
Seach Image	Cadaa						
	d Search Most A	ctive Fast Move					
	Fast N	overs: 24 hrs	2				
Search Res							
Title	Description	Date Create	Total Hits	Hits in last period		Act	lons
title20	desc of title20	25/01/2013	2	2	<b></b>	Update	Delete
<u>title2</u>	desc of title2	03/01/2013	6	0		Update	Delete
<u>title4</u>	desc of title4	05/01/2013	4	0		Update	Delete
title3	desc of title3	03/01/2013	3	0		<u>Update</u>	Delete
title22	desc of title22	20/02/2013	0	0		Update	Delete
title21	desc of title21	26/01/2013	0	0		Update	Delete
title19	desc of title19 desc of title17	20/01/2013	0	0		Update	Delete
title17	desc of title16		0	0		Update	Delete
title16	desc of title15	17/01/2013	0	0		<u>Update</u> Update	Delete Delete
title15						opuate	Delete

	Select period from drop down list which contains values - 24 hrs and 1 week to view fast movers Imagecodes for selected period
2	Button to display fast movers imagecodes for selected period

ISCANIMACE				Logout
19041 UNAGE				
Home New Search Account				
Account				
Update Profile Change Password				
• First Name :	Akshay	- 1		
• Last Name :	Morgaonkar	- 2		
Email ID :	akshay.morgaonkar@gmail.com	- 3	\$	
Gender :	•	Male - 4	W2	
Username :	akshaym	- 5		
* Current password :		- 6		

1	Enter first name to update
2	Enter last name to update
3	Your email id which can not be changed
4	Your gender which can not be changed
5	Your username which can not be changed
6	Your current password which required to update your profile
7	Button to submit new details
8	Button to clear all details

<section-header></section-header>	₩ Welcome to iScanIn ← → C ြ local		Code/ImageDetails.action?imageId=1	
Detail Information Alcoult manageGold         Table:       uited         Description:       Description:         Date:       1/1/3         Contact Type:       cdl         Total Hitts:       f         Select Date:       Frem:       10/2/2013 Tre:       Conzolitie         Select Date:       Frem:       0/10/2/2013 Tre:       Conzolitie       Frem:       f         Select Date:       Frem:       0/10/2/2013 Tre:       Conzolitie       F       f       f         Select Date:       Frem:       0/10/2/2013 Tre:       Conzolitie       F       f       f         Select Date:       Frem:<		SCAN L	NAGE	
Tite: titel.   Description: desc of titel.   Description: 1/1/3   Centact Type: call   Centact Type: call   Centact Type: call   Centact Type: call   Description: 1/1/3   Description: 1/1/3   Centact Type: call   Centact Type: call   Centact Type: call   Centact Type: call   Description: 1/1/3   Description: 1/1/3   Centact Type: call   Total Hea: 5   Description: 1/1/3/2013   Total Hea: 5   Description: 1/1/3/2013   Centact Type: 1/1/3/2013   Description: 1/1/3/2013   Total Hea: 5   Description: 1/1/3/2013   Description: 1/1/3/2013   Description: 1/1/3/2013   Centact Type: 1/1/3/2013   Description: 1/1/3/2013   Centact Type: 1/1/3/2013   Description:		Home New	Search Account	
desc of titel Description:		Detail Information	About ImageCode	
Description: Det: 1/1/3 Contact Type: call Contact Type: call		Title:	title1	
Contact Type: call Contact Value: 989999998 Webste: www.HBel.com Total His: 5 Image Code: C 2 1 2 3 Download Raw Data: Select Date:- Prom: 1402/2013 To: 2002/2013 View Select Date:- From: 0102/2013 To: 2002/2013 View		Description:	desc of UH01	
Contact Type : call Contact Value : 9999999999 Webste: www.Bile Loom Total His: 5 mage Code: Q 2 1 2 3 Download Raw Data : Select Date:- From: 1402/2013 To: 2002/2013 View Select Date:- From: 01/02/2013 To: 2002/2013 View Select Date:- From: 01/02/2013 To: 2002/2013 View		Date :	1/1/13	0:13
Website:     www.title1com       Total Hits:     5       Image Code:     1     2     3       Download Raw Data:     Select Date:     From:     14/02/2013     To:     20/02/2013       Total Scans     4     5     6       Select Date:     From:     01/02/2013     To:     20/02/2013     View		Contact Type :	call	
Total Hits:     5       Image Code:     Image Code:       Download Raw Data:     Select Date:       From:     1402/2013       Total Scans     Image Code:       Select Date:     From:       Select Date:     From:       Output data     Select Date:       Select Date:     From:       Select Date:     From:       Output data     Select Date:		Contact Value :	98989898	Time Period Breakup
Image Code:     Imag		Website:	www.title1.com	Period : Total 🔻 - 7
Download Raw Data: Select Date: From: 1402/2013 To: 2002/2013 Download Total Scans 4 5 6 Select Date: From: 0102/2013 To: 2002/2013 View		Total Hits:	5	
Select Date: From: 01/02/2013 To: 20/02/2013 View		Download Raw I	Data: Select Date: From: 14/02/2013 To: 20/02/2013	6 am - 12 pm 12 am - 6 pm
	N	Total Scans	φφ	
© Copyright 2013 ISyneray Systems. All Rights Reserved.	13	1		
	© C	opyright 2013 iSynergy	Systems. All Rights Reserved.	

1	Select from date to download information of hits of imagecode
2	Select to date to download information of hits of imagecode
3	Button to download scanning data for imagecode for given date
3	range
4	Select from date for report of total scans of Imagecode
5	Select to date for report of total scans of Imagecode
6	View button to view total scans of imagecodes report for given date
0	range
	Select period from drop down list which contains values - 24 hrs, 1
7	week and total to view time period breakup for scanning of
	Imagecode for selected period

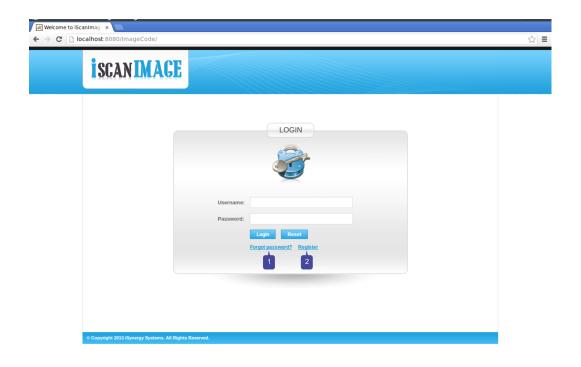
ISCANIMACE		ne: akshaym 🛛 Logout
130AN LINAGL		
Home New Search Acco	int	
Update ImageCode		
Tit	e: title20	
Uploaded Imag	e: 🔍 🛃	
* Descriptio	title20 new	
Go to Websit	e: www.title20.com	
Contact Typ	Email Info@title20.com	
Audio to uploa	1: Choose File No file chosen -4	
Video to Uploa	1: Choose File No file chosen - 5	

1	Enter description of imagecode
2	Enter website address for imagecode
	Enter contact type as sms, email or call. For sms, enter mobile
3	number or 5 digit number. For call, enter mobile number and for
	email, enter email id.
4	Enter audio file for imagecode. It is not mandatory to upload
4	audio file.
5	Enter video file for imagecode. It is not mandatory to upload
3	video file.
6	Button to update imagecode data
7	Button to clear all details

Welcome to iScanImag ×  ♦ → C □ localhost:8080/ImageCode/ForgotPassword.act	ion	☆ =
iscan IMACE		
Recover your account password		
	Enter your email id. We will send your password by email.	
• Email id :	akshay.morgaonkar@gmail.com	
	Submit - 2	
	Login Register	
© Copyright 2013 iSynergy Systems. All Rights Reserved.		

1	Enter email id associated with your account to recover your account. Email containing username and password will be sent to your email id
2	Button to submit email id to recover account

# 4.2 Operations manual



1	Link to account recovery form
2	Link to register new account

001		01							elcome: akshaym
SCA	NIMA	<b>GE</b>							
1			4						
Home	New Se	arch Aco	count						
Total Sc	ans						Most 9	re ImageC 10	
		Select Do	te:- From: 14/02/2013	To: 20/03	2/2013	View	Table	Char	t Period 24 hrs 🔻
		Sciection	14/02/2013	10. 20101	12010	view.	Title	Total Hits	
4						[11		Total Hits	Hits in last period
3							title2	6	0
2							title1	5	0
1	/						<u>title4</u>	4	0
2013-02-1							<b>East</b> 12	ars Imager 13	
2013-02-1	4 2013-02-15	2013-02-16	2013-02-17 2013-02-1	18 201	3-02-19	2013-02-20	Fast	ers ImageC	
Most Re	cent Uploaded Ima	ageCodes					Table	Char	t Period 24 hrs 🔻
Title	Date Create	Total Hits	Hits in Last 24 hours		6 Act	ions 7	Title	Total Hits	Hits in last period
5 <u>title21</u>	1/26/13	0	0		Update	Delete	title20	2	2
<u>title20</u>	1/25/13	2	2		Update	Delete	title2	6	0
title19	1/20/13	0	0		Update	Delete	title4	4	0
title18	1/19/13	3	0	<b>T</b>	Update	Delete	<u>title3</u>	3	U
title17	1/18/13	0	0		Update	Delete		od Breakup	
title16	1/17/13	0	0		Update	Delete			Period : 24 hrs 🔻
title15	1/16/13	0	0		Update	Delete			24 1115
	1/15/13	0	0		Update	Delete			
title14	1/14/13	0	0		Update	Delete			
title13	1/13/13	0	0		Update	Delete			6 am - 12 pm
title13		U	U		opuate	Delete			

1	Link to home page
2	Link to upload new imagecode
3	Link to search imagecodes
4	Link to change profile details and change password
5	Click on title name to view details of imagecode
6	Link to update imagecode form
7	Link to delete imagecode
8	Link to view next page
9	Button to view table of most active imagecodes for selected period
10	Button to view chart of most active imagecodes for selected period
11	Click on title name to view details of imagecode
12	Button to view table of fast movers imagecodes for selected period
13	Button to view chart of fast movers imagecodes for selected period
14	Click on title name to view details of imagecode
15	Button to logout from account

SCAN	MAGE						Welcor	ne: akshaym 🛛 📕 Log
Home New	Search Account		3					
Advanced Se	arch Most Active	Fa	st Movers					
	Title :	Conta	ining T title2					
	Description :	Contair	ing					\$
	Date :	From:		Го:				
	Contact Type :	Cal	I 🗹 Email 🗷 S	MS				
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Search Result							5	6
title2	desc of title2		1/3/13	6	0		Update	Delete
title20	desc of title20		1/25/13	2	2	<b>A</b>	Update	Delete
title21	desc of title21		1/26/13	0	0		Update	Delete
title22	desc of title22		2/20/13	0	0		Update	Delete

1	Button for advanced search
2	Button for most active imagecodes search
3	Button to fast movers imagecodes search
4	Click on title name to view details of imagecode
5	Link to update imagecode form
6	Link to delete imagecode

er a M	IMAGE						shaym Log
<b>JUAN</b>	TWACT						
lome N	ew Search /	Account					
Seach Image	Codes						
	d Search Most A	ctive Fast Mover	s				
	Most	Active : 24 hrs 🔻					
		search			$\Im$		
Search Res	ult					2	
Title	Description	Date Create	Total Hits	Hits in last period		Act	ions 3
title20	desc of title20	25/01/2013	2	2	<b>A</b>	<u>Update</u>	Delete
title2	desc of title2	03/01/2013	6	0		<u>Update</u>	Delete
<u>title1</u>	desc of title1	01/01/2013	5	0		<u>Update</u>	Delete
<u>title4</u>	desc of title4	05/01/2013	4	0		<u>Update</u>	Delete
title18	desc of title18	19/01/2013	3	0	▼	<u>Update</u>	Delete
title3	desc of title3	03/01/2013	3	0		<u>Update</u>	Delete
title22	desc of title22	20/02/2013	0	0		Update	Delete
title21	desc of title21	26/01/2013	0	0		<u>Update</u>	Delete
title19	desc of title19	20/01/2013	0	0		Update	Delete
title17	desc of title17	18/01/2013	0	0		Update	Delete

1	Click on title name to view details of imagecode
2	Link to update imagecode form
3	Link to delete imagecode
4	Link to view next page

SEA N	IMACE						shaym Log
XXCH)	HILCEXH						
Home N	lew Search	Account					
	Search	Account					
Seach Image	Codes						
Advance	d Search Most A	ctive Fast Mover	S				
	Fast M	Aovers: 24 hrs 🔻					
		search		\$			
Search Res	Description	Date Create	Total Hits	Hits in last period		2	ions 3
title20	desc of title20	25/01/2013	2	2	<b>A</b>	Update	Delete
title2	desc of title2	03/01/2013	6	0		Update	Delete
title4	desc of title4	05/01/2013	4	0	< >	Update	Delete
title3	desc of title3	03/01/2013	3	0		Update	Delete
title22	desc of title22	20/02/2013	0	0		Update	Delete
title21	desc of title21	26/01/2013	0	0		<u>Update</u>	Delete
title19	desc of title19	20/01/2013	0	0		<u>Update</u>	Delete
	desc of title17	18/01/2013	0	0		<u>Update</u>	Delete
title17	desc of title16	17/01/2013	0	0		<u>Update</u>	Delete
title17 title16	desc of utero					Update	Delete

1	Click on title name to view details of imagecode
2	Link to update imagecode form
3	Link to delete imagecode
4	Link to view next page

Ihost:8080/ImageCode/Account.action		
ISCAN IMAGE		Welcome: akshaym Logout
Home New Search Account		
Update Profile Change Password		
* First Name :	Akshay	
* Last Name :	Morgaonkar	
Email ID :	akshay.morgaonkar@gmail.com	\$
Gender :	Male     Female	м2
Username :	akshaym	
• Current password :		
	Submit Clear	

1	Link to open update profile form
2	Link to open change password form

localhost:80		Code/ImageDetails.action?imageId=1	
- ***	OH ) <del>H</del>		
Home	New	Search Account	
nome	New		
Detai		About ImageCode	
	Title:		
	Description:	desc of BEL	
	Date :	1/1/13	▶ ● 0:13 ◀ ) - ● - 5
Co	ntact Type :	call	
Cor	ntact Value :	98989898	Time Period Breakup
	Website:	www.title1.com	Period : Total 🔻
	Total Hits:	5 2 3	
6	mage Code:		
Do	wnload Raw I	Data : Select Date: From: 14/02/2013 Te: 20/02/2013	■ 12 am - 6 am ● 6 am - 12 pm ■ 12 am - 6 pm ■ 6 pm - 12 am
	Scans		
2		Select Date:- From: 01/02/2013 To: 20/02/2013 View	
2013	2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	and	

1	Link to open website submitted for imagecode
2	Button to view image uploaded for imagecode
3	Button to download image uploaded for imagecode
4	Control video uploaded for imagecode
5	Control audio uploaded for imagecode

<b>ISCANIMACE</b>		Welcome: akshaym
Home New Search Accou		
Update ImageCode	-	
Title	1 2	
Uploaded Image	TT	
* Description	desc of <u>title20</u> new	
Go to Website	www.title20.com	
Contact Type	Email  Info@title20.com	
Audio to upload	Choose File No file chosen	
Video to Upload	Choose File No file chosen	

1	Button to view image uploaded for imagecode
2	Button to download image uploaded for imagecode



1	Link to open login page
2	Link to open register page

# 4.3 Program specifications

### Registration :

This form accepts new user's details to register on web application.

### Login :

This form accepts username and password to login into application.

## Forgot password :

This form accepts email id from user and sends email of username and password to recover account.

## Upload imagecode :

This form accepts all details about imagecode i.e. Advertisement details and uploads it on server.

#### View imagecode :

In all reports and search results, imagecodes will be displayed. On all these results user can view imagecodes by clicking on title of imagecode.

#### <u>Update imagecode :</u>

In all reports and search results, imagecodes will be displayed. On all these results user can update imagecode by clicking on update link associated with imagecode. By clicking on update, update imagecode form will open and user can update details except title and image.

### Delete imagecode :

In all reports and search results, imagecodes will be displayed. On all these results user can delete imagecode by clicking on delete link associated with imagecode. By clicking on delete, program will ask for confirmation, if user confirms to delete, imagecode will be deleted. Search imagecode :

There are 3 types of search provided to user-

1. Advanced search-

In this search, user can set various search criteria and all imagecodes satisfying search criteria will be displayed.

2. Most active imagecodes search-

In this search, user can select period and most active imagecodes will be displayed for that period.

3. Fast movers imagecodes search-

In this search, user can select period and fast movers imagecodes will be displayed for that period.

## Maintain account :

1. Update profile-

In this form, user can update there details by providing current password of account.

### 2. Change password-

In this form, user can change password of account by providing current password of account.

**Chapter 5: Drawbacks and limitations** 

#### > Drawbacks

- Scanning contents of multiple images takes upto 50 seconds to respond which is much more time for an application.
- Advertiser can upload only one product out of two products if both products have same image ex. two products of different companies which are visually same.

### > Limitations

- Our mobile application is only for android phones. Therefore, advertisement can be viewed by upto 60% of mobile users.
- Advertiser can upload only one image per advertisement.

**Chapter 6: Proposed enhancements** 

- To develop mobile application for other platforms like iOS, java based mobile phones so that more users can take benefit of this process.
- To improve image processing techniques so that scanning of multiple images become faster.
- To allow advertiser to upload multiple images per advertisement.

**Chapter 7: Conclusion** 

- iScanImage automated manual advertisement system.
- iScanImage reduced cost of advertisement.
- iScanImage provided management of all advertisements from one place.
- iScanImage provides statistics about hits of all advertisements using attractive tables and charts.
- iScanImage allows to store large amount of data about each advertisement.
- iScanImage allows audio, video clips along with advertisement.

**Chapter 8: Bibliography** 

#### > Book referred-

Struts 2 in action - Donald Brown, Chad Michael Davis, Scott Stanlick

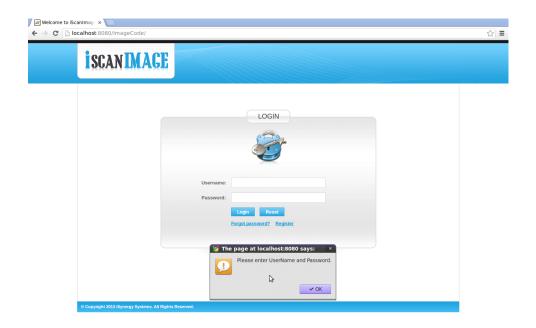
#### ≻ Web-

www.tutorialspoint.com www.w3schools.com www.google.com

#### > Documentations-

opency documentation (for image processing) google.visualisation api documentation (to draw charts) **Chapter 9: Annexures** 

# Annexure 1: User interface screens



is	CANIMACE			
	legister			
	* First Name :	akshay		
	* Last Name :	morgaonkar		
	• Email ID :	akshay.morgaonkar@gmail.com		
	• Gender :	The page at localhost:8080 says:	Male	
	• Userna	Account for 'akshay.morgaonkar@gmail. already exists. Please use another email	com' id	
	• Passw		id to register.	
	• Re-type Passw		✓ ОК	
		Register Clear		
		Login Forgot password?		

3

ISCANIMACE			
Register			
* First Name :	akshay		
* Last Name :	morgaonkar		
• Email ID :	akshay.morgaonkar@yahoo.com		
• Gender :	• •	Male Female	
• Username :	akshay		
* Password :	The page at localhost:8 ×		
* Re-type Password :	Username already exist		\$
	✓ OK		

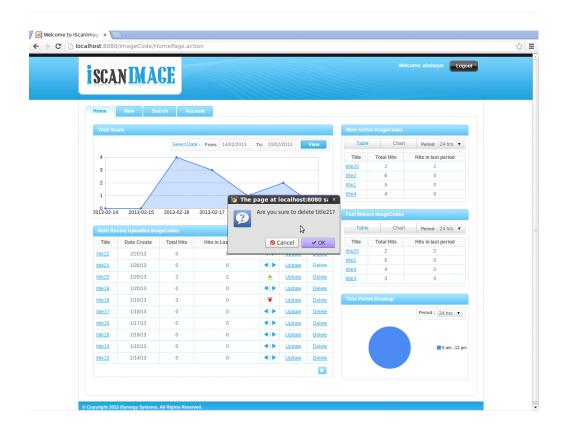
i	SCAN IMACE	Welcome: akshaym Eogout
	Home New Search Accour	
	• Title :	100621
	• Image to Upload : • Description :	
	Go to Website :     Contact Type :	
	Audio to upload	
	Video to Upload :	Choose File No file chosen Upload Clear

ISCANIMACE	Welcome: akshaym Logo
Home New Search Account	
Create New ImageCode	
	Image already exists. Please upload different image.
* Title :	title22
* Image to Upload :	Choose File No file chosen
* Description :	desc of title22
	Ø
* Go to Website :	www.web.com
Contact Type :	Call • 9890087678
Audio to upload :	Choose File No file chosen
Video to Upload :	Choose File No file chosen
	Upload Clear

<b>iscanIMAGE</b>	Welcome: akshaym Logout
Home New Search Account	
Create New ImageCode	
	Your Imagecode data successfully saved.
* Title :	
* Image to Upload :	Choose File No file chosen
Description :	
	5
	æ
* Go to Website :	
Contact Type :	Select Type •
Audio to upload :	Choose File No file chosen
Video to Upload :	Choose File No file chosen
	Upload Clear

İSCAN IMACE			Welcome: akshaym
Home New Search Account			
Account Update Profile Change Password			
* First Name :	Akshay		
• Last Name :	Morgaonkar		
Email ID :	akshay.morgaonkar@gmail.com		\$
Gender :	•	Male Female	
Username :	akshaym		
• Current password :			
	Submit Clear		

✓ Welcome to IScanimag: ×         ←       →       C       D localhost:8080/ImageCode/Account.action		☆ =
<b>iscanIMACE</b>	Welcome: akshaym Logout	
Home New Search Account		
Account		
Update Profile Change Password		
Current password :		
* New password :		
• Re-type new passyster		
Re-typed password does not matches with new password.		
Copyright 2013 (Synergy Systems. All Rights Res		

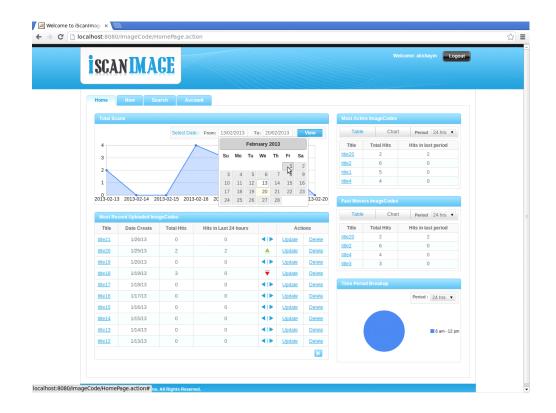


elcome to iScan				
		Code/ImageDetails.action?imageId=1		
	I SCAN L	AGE		
1	Home New	Search Account		
	Detail Information	About ImageCode		
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	Date :		▶ <b>●</b> 0:13 <b>♦</b>	
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	Total Hits:	5		
	Image Code: Download Raw I	Q         Image: Select Date: From: 14/02/2013         Te: 20/02/2013         Image: Select Date: From: 14/02/2013	2 2 an - 6 an 2 2 an - 6 pn 3 2 an - 6 pn 9 pn - 12 an	
	Total Scans			
Ø		Select Date:- From: 01/02/2013 To: 20/02/2013 View		
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	Convright 2013 iSvnerov	Systems. All Rights Reserved.		

ISCAN	Code/ImageDetails.action?imageId=1		ŕ
Home New	Search Account		
Detail Information	About ImageCode		
Title:	title1		
Description:	desc of titel		
Date :	1/1/13	▶ ●   0:13 ◀ )   ●	
Contact Type :	call	0.13	
Contact Value :	9898989898	Time Period Breakup	
Website:	www.title1.com	Period : Total	
Total Hits:	5		
Image Code:			
Download Raw I	Download Data: Select Date: From: 14/02/2013 To: 20/02/2013	12 am - 6 am 6 am - 12 pm 12 am - 6 pm 6 pm - 12 am	
Total Scans			
	Select Date:         From:         01/02/2013         To:         2002/2013         View           apa do and and and and and and and and and and		
20. 20. 20, 20,	∿ິ ທິ		

j	SCA	N <mark>IN</mark>	IACE		Welcome: akshaym Logoot
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	Update Ir	nageCode			
				Title :	title20
			Uplo	aded Image :	
			•	Description :	desc of <u>title20</u> new
			* Go	to Website :	www.title20.com
			• Co	ontact Type :	Email Info@title20.com
			Aud	io to upload :	Choose File No file chosen
			Vide	o to Upload :	Choose File No file chosen
					Update Clear

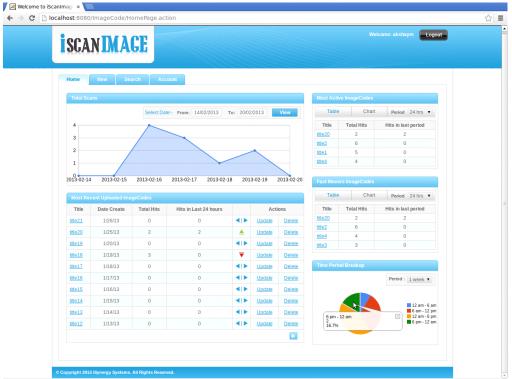
# Annexure 2: Output reports with data











SCAN <mark>IM</mark>	IACE							me: akshaym 📃 Lo
Home New	Search Account							
Seach ImageCodes								
Advanced Searc	h Most Active	Fast Movers						
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			0062					N
	Description :	Containing						\$
	Date :	From:	To:					
	* Contact Type :	🗹 Call 🕑 Ema	ail 🕑 SMS					
		search						
Search Result								
<u>title2</u>	desc of title2	1/3	8/13	6	0	< >	Update	Delete
title20	desc of title20	1/2	5/13	2	2		Update	Delete
title21	desc of title21	1/2	6/13	0	0		Update	Delete
title22	desc of title22	2/2	0/13	0	0		Update	Delete

00 J M	I A CE						e: akshaym
SCAN	MAGE						
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title1 title2	desc of title1 desc of title2	1/1/13	5	0		Update Update	Delete
title3	desc of title3	1/3/13	3	0		Update	Delete
title4	desc of title4	1/5/13	4	0		Update	Delete
title5	desc of title5	1/5/13	0	0		Update	Delete
title6	desc of title6	1/5/13	0	0		Update	Delete
title7	desc of title7	1/6/13	0	0		Update	Delete
title8	desc of title8	1/7/13	0	0	< I >	Update	Delete
title9	desc of title9	1/8/13	0	0		Update	Delete
title10	desc of title10	1/10/13	0	0	< I >	Update	Delete
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		Description :	Contair	ning							
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Search Res											
title14	desc	of title14		1/15/13	0	0		Update	Delete		
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title16	desc	of title16		1/17/13	0	0	< I >	<u>Update</u>	Delete		
title17	desc	of title17		1/18/13	0	0		Update	Delete		
title18	desc	of title18		1/19/13	3	0	▼	Update	Delete		

SCAN	IMAGE							ne: akshaym 🛛 Log			
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Seach Image	Codes										
Advance	Search Most Active	Fast	Movers								
	Title :	Contair	ning 🔻								
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<u>title1</u>	desc of title1		1/1/13	5	0		Update	Delete			
<u>title4</u>	desc of title4		1/5/13	4	0		Update	Delete			
<u>title7</u>	desc of title7		1/6/13	0	0		Update	Delete			
title10	desc of title10		1/10/13	0	0		Update	Delete			
title13	desc of title13		1/14/13	0	0		Update	Delete			
title16	desc of title16		1/17/13	0	0		Update	Delete			
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title18	desc of title18	19/01/2013	3	3	<b></b>	<u>Update</u>	Delete
title2	desc of title2	03/01/2013	6	2		<u>Update</u>	Delete
title4	desc of title4	05/01/2013	4	2	<b></b>	<u>Update</u>	Delete
<u>title3</u>	desc of title3	03/01/2013	3	2	<b>A</b>	<u>Update</u>	Delete
title20	desc of title20	25/01/2013	2	2	<b>A</b>	Update	Delete
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title22	desc of title22	20/02/2013	0	0		Update	Delete
title21	desc of title21	26/01/2013	0	0		Update	Delete
title19	desc of title19	20/01/2013	0	0		Update	Delete
title17	desc of title17	18/01/2013	0	0	Image: A in the second seco	Update	Delete

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title18	desc of title18	19/01/2013	3	3	<b></b>	Update	Delete
title20	desc of title20	25/01/2013	2	2	<b></b>	Update	Delete
title3	desc of title3	03/01/2013	3	2	<b></b>	Update	Delete
title4	desc of title4	05/01/2013	4	2		Update	Delete
title22	desc of title22	20/02/2013	0	0		Update	Delete
title21	desc of title21	26/01/2013	0	0		Update	Delete
title19	desc of title19	20/01/2013	0	0		Update	Delete
<u>title17</u>	desc of title17	18/01/2013	0	0		<u>Update</u>	Delete
title16	desc of title16	17/01/2013	0	0		Update	Delete
title15	desc of title15	16/01/2013	0	0		Update	Delete

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Recover y	our account password		
		Enter your email id. We will send your password by email.	
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