A
Project Report
on

"Image Based Criminal Data Retrieval System"

SUBMITTED FOR PARTIAL FULFILLMENT FOR THE AWARD OF

DIPLOMA IN

COMPUTER ENGINEERING

SUBMITTED BY

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ALL(5) PROGRAMS ACCREDITED BY NBA NEW DELHI

CERTIFICATE

This is to certify that the Project Report entitled

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Students of final year of Diploma in Computer Engineering have completed the project assigned as per syllabus satisfactorily under the guidenece of Ms.Patil S.A. for the academic year 2017 - 2018.

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ABSTRACT

Content Based Image Retrieval (CBIR) is a signify cant and increasingly popular approach that helps in the retrieval of image data from a huge collection. Image representation based on certain features helps in retrieval process. Three important visual features of an image include Color, Texture and Shape. We propose an efficient image retrieval technique which uses dynamic dominant color, texture and shape features of an image.

We will encrypt content data(Color, Texture and Shape)in the hash algorithm is secure enough for critical purposes whether it is MD5 or SHA-1.This hashing algorithm used for only encryption this content cannot be decrypted. That is the image content data cannot be leaked or hacked. After this we will retrieve the criminal records using this encryption authentication.
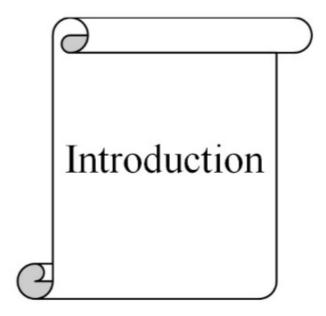
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Introduction

Chapter1

Introduction

In this project of ours we aim to create an application that is helpful the police department to identify criminals and store and retrieve their criminal record data conveniently. This is called Content Based Image Retrieval (CBIR).

Image retrieval with multiple features also known as Query by Image Content (QBIC) and the visual information is the application of computer vision to the image retrieval problem, that is, the problem of searching for digital images in large databases [4].

Image retrieval means that the search will analyze the actual contents of the image. The term 'content' in this context might refer colors, shapes, textures, or any other information that can be derived from the image itself. Without the ability to examine image content, searches must rely on metadata such as captions or keywords. Such metadata must be generated by a human and stored alongside each image in the database. Problems with traditional methods of image indexing have led to the rise of interest in techniques for retrieving images on the basis of automatically-derived features such as color, texture and shape a technology now generally referred to as Content-Based Image Retrieval (CBIR).

However, the technology still lacks maturity, and is not yet being used on a significant scale. In the absence of hard evidence on the effectiveness of CBIR techniques in practice, opinion is still sharply divided about their usefulness in handling real-life queries in large and diverse image collections.

The logical image representation in image databases systems is based on different image data models. An image object is either an entire image or some other meaningful portion (consisting of a union of one or more disjoint regions) of an image. The logical image description includes: Meta, semantic, color, texture, shape, and spatial attributes.

Requirement Analysis

Chapter2

Requirement Analysis

2.1   Requirement Specification

Provide the image based criminal data retrieval. To reduce the manual working of recording the data of criminal.Only admin can add the criminal records in the database. Searching the criminal data by both admin and client.

2.2   Hardware Requirements

- RAM: 4GB

- Hard Disk Drive: 1TB

- Processor: i3

2.3   Software Requirements

- operating system - Windows 10

- Language - PHP(5.5.6)

- Server - 17VGA Xampp(1.8.3)

- Database - MySQL(5.6.14)

- Web Technologies - HTML5, CSS3,JavaScript, Ajax, JQuery, PHP

- Web Browser - Google Chrome

Project Management

Chapter3

Project Management

Project management is the discipline of initiating, planning, executing, controlling, and closing the work of a team to achieve specic goals and meet specic success criteria.A project is a temporary endeavour designed to produce a unique product, service or result with a dened beginning and end (usually time-constrained, and often constrained by funding or deliverables) undertaken to meet unique goals and objectives, typically to bring about benecial change or added value.

The temporary nature of projects stands in contrast with business as usual (or operations), which are repetitive, permanent,or semi-permanent functional activities to produce products or services. In practice,the management of these two systems is often quite dierent, and as such requires the development of distinct technical skills and management strategies.

The primary challenge of project management is to achieve all of the project goals and constraints.This information is usually described in a user or project manual, which is created at the beginning of the development. The primary constraints are scope, time,quality and budget. The secondary and more ambitious challenge is to optimize the allocation of necessary inputs and integrate them to meet pre-dened objectives.

3.1 Project Plan

A project plan is a formal document designed to guide the control and execution of a project. A project plan is the key to a successful project and is the most important document that needs to be created when starting any business project. A project plan is used for the following purposes: To document and communicate stakeholder products and project expectations To control schedule and delivery To calculate and manage associated risks.

Table 3.1: Effort Estimation

Sr. No	Name Of Activity	Conducted By	Proposed Schedule
1.	Requirement gathering	All Members	10 Dec to 29 Dec
2.	Requirement Analysis	All Members	1 Jan to 14 Jan
3.	Designing	Akshta Sutar	15 Jan to 24 Jan
4.	Coding	Pooja Jinkeri Akshada Patil	25 Jan to 14 Feb
5.	Testing	Megha Karjol	15 Feb to 19 Feb
6.	Documentation	All Members	20 Feb to 28 Feb

Table 3.2: Cost Estimation (COCOMO Model)

Sr. No	Expence Discription	Value
1.	Number of Programmers	2
2.	Number of hours in per Programmer/week	10
3.	Coding Cost per hour	60Rs.
4.	Remuneration per programmer	40*60=2400Rs.
5.	Total requirement of project	1500*4=6000Rs.
6.	Documentation cost	800
7.	Total cost	Rs.9200

Problem Statement

Chapter4

Problem Statement

In the existing system the criminal record keeping system is completely manual. Records of criminal are written in book. They have to stick the image of the criminal into that book. Whenever they want the any criminal record then they have to search the details in that record keeping booking. Every time they have to write the records of criminal into that book, which takes lots of time and energy. They have to maintain the each and every record keeping book.

4.1 Objective

- The project will help in retrieving criminal records by image.

- This will be useful to store all criminal data under same roof (Database)

- This project reduces manual work and as well as time required search existing criminal record.

4.2 Scope

- Police Station
- Commissioner Office

System Design

Chapter5

System Design

The proposed system architecture of our project will be like given diagram. The admin panel will send the request for criminal register record, after that cloud server will permit the admin for receiving registered criminal. In the criminal data search panel i.e. User panel sends the request for criminal data to cloud server and cloud server will response with data related to search
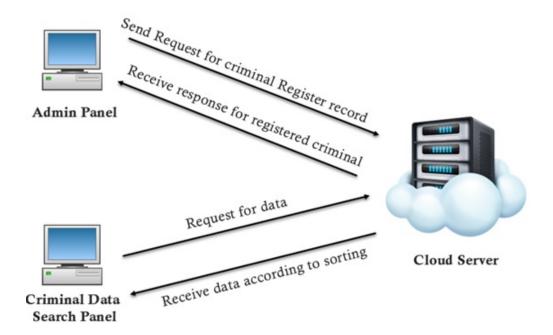

Figure 5.1: System Architecture.

5.1 Methodology

In this Part of the Report, we describe the methods undertaken by us for our project Image Based criminal data retrieval system.
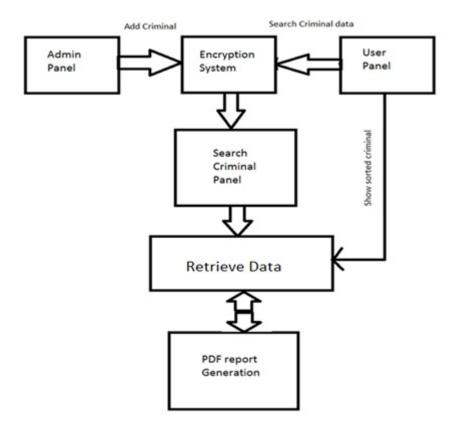

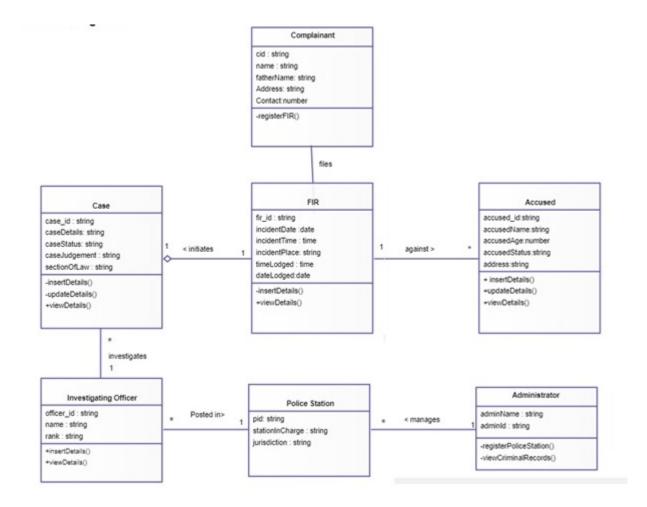Figure 5.2: Methodology

5.2   Class Diagram

Figure 5.3: Class Diagram

5.3   Data Flow Diagram

A data flow diagram (DFD) is a graphical representation of the "flow" of data through an information system, modelling its process aspects. A DFD is often used as a preliminary step to create an overview of the system, which can later be elaborated.
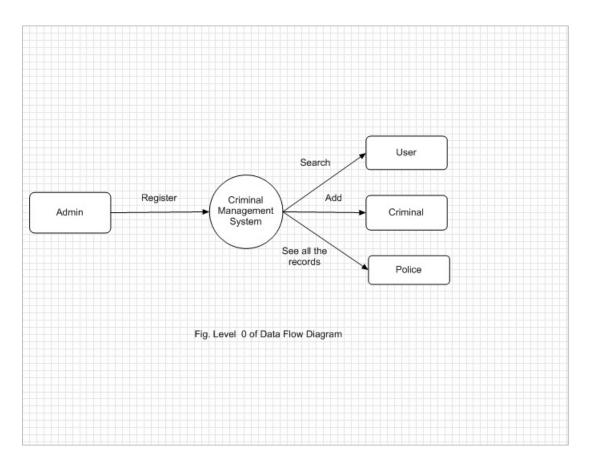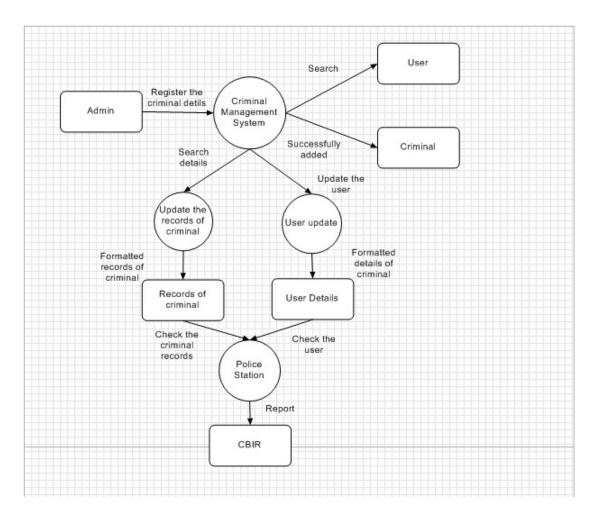

Figure 5.4: DFD level 0

Figure 5.5: DFD level 1

5.4   ER Diagram

An entity-relationship diagram (ERD) is a data modeling technique that graphically illustrates an information system's entities and the relationships between those entities. An ERD is a conceptual and representational model of data used to represent the entity framework infrastructure.
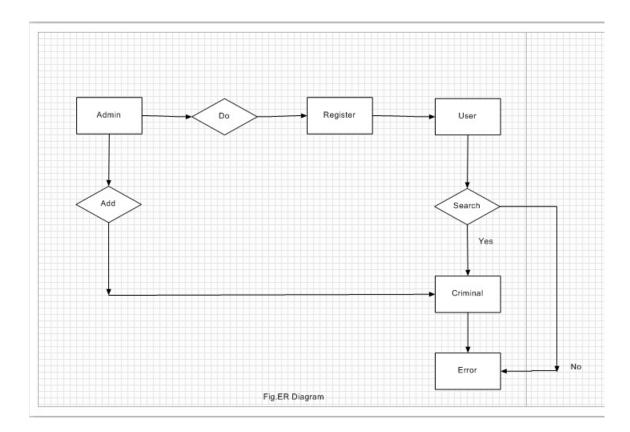

Figure 5.6: ER Diagram

5.5 UML Diagram

The Unified Modeling Language (UML) is a standard visual modeling language intended to be used for

- Modeling business and similar processes

- Analysis, design and implementation of software based systems

UML is common language for business analysts, software architects and developers used to Describe, specify, design, and document existing or new business processes, structure and behavior of artifacts of software systems. There are two broad categories of and then are again divided into sub-categories:

- Structural Diagrams

- Behavioral Diagrams

UML is a standard language for specifying, visualizing, constructing, and documenting the Artifacts of software systems.
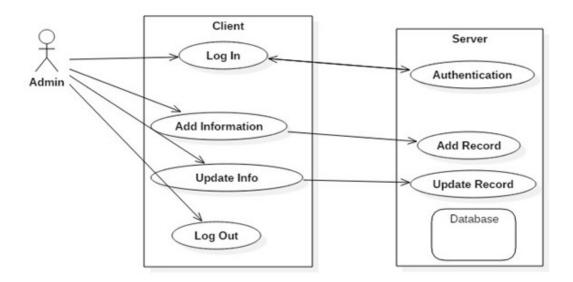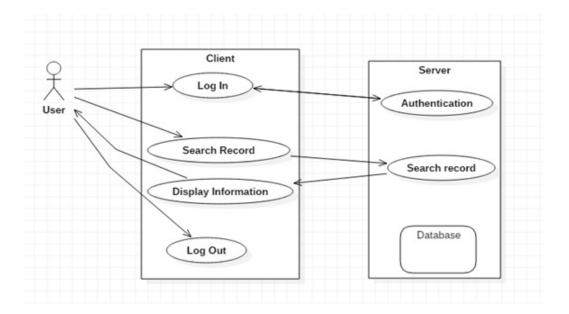
Figure 5.7: Admin Panel

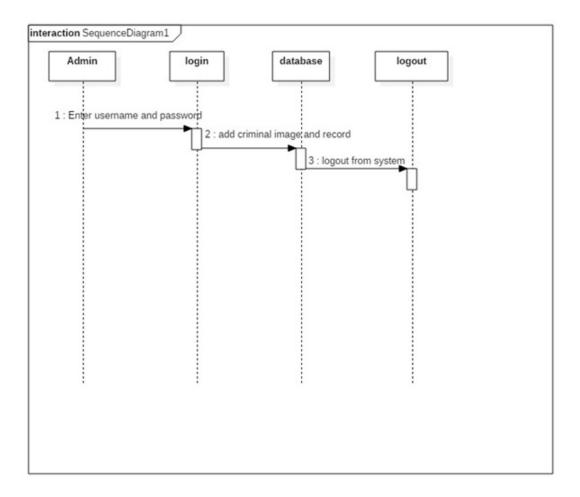Figure 5.8: User Panel

5.6   Sequence Diagram
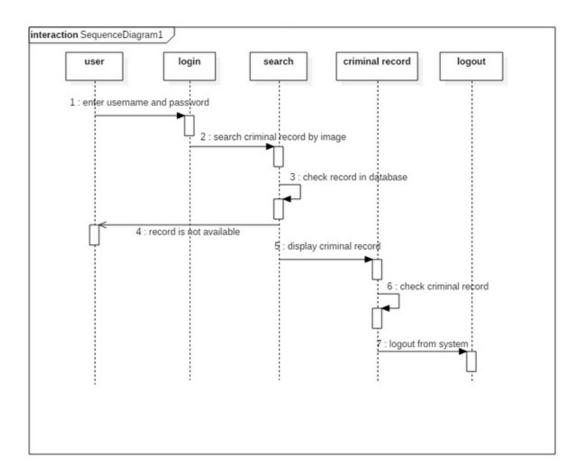

Figure 5.9: Admin Panel

Figure 5.10: User Panel

Implementation Details

Chapter6

Implementation Details

- **Programming Language: PHP**

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Group. While PHP originally stood for Personal Home Page, it now stands for the recursive backronym PHP: Hypertext Preprocessor.

PHP code may be embedded into HTML code, or it can be used in combination with various Web template systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable.

The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standalone graphical applications. 10 standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge. The PHP language evolved without a written formal specification or standard until 2014, leaving the canonical PHP interpreter as a de facto standard. Since 2014 work has been ongoing to create a formal PHP specification.

- **Server:XAMPP**

It is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing purposes. Everything needed

to set up a web server server application (Apache), database (MariaDB), and scripting language (PHP) is included in an extractable file.

XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server extremely easy as well. XAMPP is regularly updated to incorporate the latest releases of Apache, MariaDB, PHP and Perl. It also comes with a number of other modules including OpenSSL, phpMyAdmin, MediaWiki, Joomla, WordPress and more. Self-contained, multiple instances of XAMPP can exist on a single computer, and any given instance can be copied from one computer to another. XAMPP is offered in both a full and a standard version (Smaller version).

Officially, XAMPP's designers intended it for use only as a development tool, to allow website designers and programmers to test their work on their own computers without any access to the Internet. To make this as easy as possible, many important security features are disabled by default. XAMPP has the ability to serve web pages on the World Wide Web. A special tool is provided to password-protect the most important parts of the package.

XAMPP also provides support for creating and manipulating databases in MariaDB and SQLite among others. Once XAMPP is installed, it is possible to treat a localhost like a remote host by connecting using an FTP client. Using a program like FileZilla has many advantages when installing a content management system (CMS) like Joomla or WordPress. It is also possible to connect to localhost via FTP with an HTML editor. The default FTP user is "newuser", the default FTP password is "wampp". The default MariaDB user is "root" while there is no default MariaDB password.

- **Database:MySQL**

MySQL is an open-source relational database management system (RDBMS), in July 2013, it was the world's second most widely used RDBMS, and the most widely used open-source clientserver model RDBMS. It is named after co-founder Michael Widenius's daughter, My. The SQL acronym 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. For proprietary use, several paid editions are available, and offer additional functionality.

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. Applications that use the MySQL database include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, Drupal and other software. MySQL is also used in many high-profile, large-scale websites, including Google (though not for searches), Facebook, Twitter, Flickr, and YouTube.

On all platforms except Windows, MySQL 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 install MySQL Workbench via a separate download. Many third party GUI tools are also available. MySQL is written in C and C++. Its SQL parser is written in yacc, but it uses a home-brewed lexical analyzer. MySQL works on many system platforms, including AIX, BSDi, FreeBSD, HP-UX, eComStation, i5/OS, IRIX, Linux, OS X, Microsoft Windows, NetBSD, Novell NetWare, OpenBSD, OpenSolaris, OS/2 Warp, QNX, Oracle Solaris, Symbian, SunOS, SCO OpenServer, SCO UnixWare, Sanos and Tru64. A port of MySQL to OpenVMS also exists.

- **Web browser: Google Chrome**

Google Chrome is a freeware web browser developed by Google. It used the WebKit layout engine until version 27 and with the exception of its iOS releases, from version 28 and beyond uses the WebKit fork Blink. It was first released as a beta version for Microsoft Windows on September 2, 2008, and as a stable public release on December 11, 2008.

As of December 2015, StatCounter estimates that Google Chrome has a 58 percent worldwide usage share of web browsers as a desktop browser. It is also the most popular browser for smartphones, and combined across all platforms at about 45 percent. Its success has led to Google expanding the 'Chrome' brand name on various other products

such as the Chromecast.Google releases the majority of Chrome's source code as an open-source project Chromium.
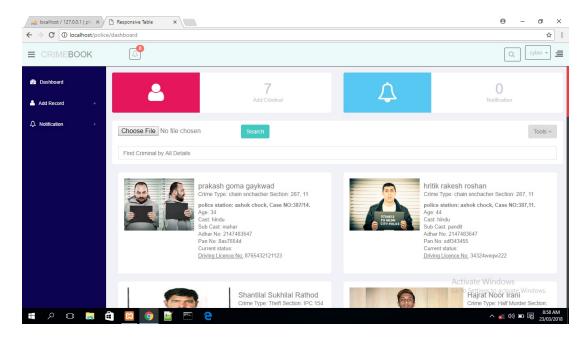
- **Screenshots**

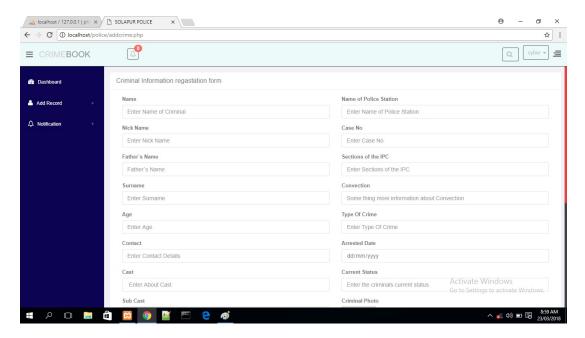Figure 6.1: Admin Panel

Figure 6.2: Admin Home Page

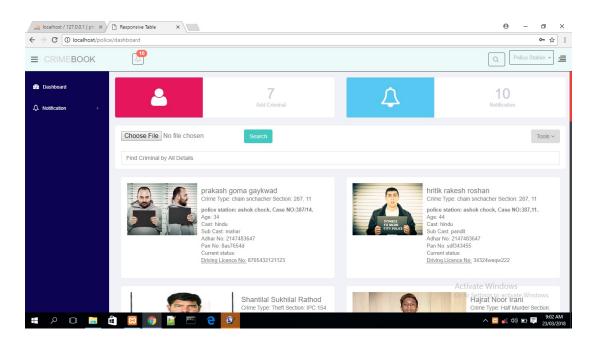Figure 6.3: Criminal Registration Form

Figure 6.4: User Login

Figure 6.5: User Home Page

System Testing

Chapter7

System Testing

7.1   Test Cases

A test case is a set of conditions or variables under which a tester will determine whethera system under test satisfies requirements or works correctly. The process of developing test cases can also help and problems in the requirements or design of an application.

7.1.1   Unit Testing Test Cases

Unit Testing

Test case ID	Test Objectives	Condition	Steps	Input Data	Expected Result	Actual result	Status
TC_1	Case Number	Accept only number	1.Go to case number field 2.Enter case Number	Case Number:12	Should be Accept Only number	It accepts only number	Pass
TC_2	Police station name	Accept only characters	1.Go to police station name field 2.Enter police station name	Police station name:Jodhbhavi peth police station	Should be Accept only character	It accepts only character	pass
TC_3	name of criminal	Accept only characters	1.Go to criminal name field 2.Enter the criminal name	criminal name: xyz	Should be Accept only character	It accepts only character	Pass
TC_4	Nick name of criminal	Accept only characters	1.Go to criminal nick name field 2.Enter the nicj name of criminal	criminal nick name:abc	Should be Accept only character	It accepts only character	Pass
TC_5	Father name of Criminal	Accept only characters	1.Go to criminal father name field 2.Enter the father name of criminal	criminal father name:pqr	Should be Accept only character	It accepts only character	Pass
TC_6	Sirname name of Criminal	Accept only characters	1.Go to criminal sirname name field 2.Enter the father name of criminal	criminal sirname name:mno	Should be Accept only character	It can be accept only character	Pass
TC_7	Address of criminal	Accept only character and number	1.Go to criminal address field. 2.Enter the criminal address	criminal address:567,Karnik Nagar,Solapur	Should be accept only character and number	It accepts only character and number	Pass
TC_8	Age of criminal	Accept only positive number	1.Go to criminal age field 2.Enter the age of criminal	criminal age:25	Should be Accept only positive number	It accepts only positive number	Pass

TC_9	cast of criminal	Accept only characters	1.Go to cast field 2.Enter the cast of criminal	cast:muslim .	Should be Accept only characters	It accepts only characters	Pass
TC_10	Sub cast of criminal	Accept only characters	1.Go to the sub cast field 2.Enter the sub cast of criminal	Sub cast:muslim	Should be Accept only characters	It accepts only characters	Pass
TC_11	Arrested Date	Accept valid date	1.Go to the date field 2.Enter the sub cast of criminal	Date:20-1-2010	Should be Accept only characters	It accepts only characters	Pass
TC_12	Convection	Accept valid convection	1.Go to the Convection field 2.Enter the convection	covection:2year	Should be Accept only number and characters in year or month	It accepts number and characters in year or month	Pass
TC_13	Addhar Number	Accept only number	1.Go to Addhar number field 2.Enter Addhar Number	Addhar Number:3324 5643 6543	Should be Accept Only number	It accepts only number	Pass
TC_14	Pan number	Accept only number	1.Go to pan number field 2.Enter PanNumber	Pan number:234241235	Should be Accept Only number	It accepts only number	Pass

TC_15	Election ID	Accept only number	1.Go to Election ID field 2.Enter Pan Election ID	Election ID number:432	Should be Accept Only number	It accepts only number	Pass
TC_16	Mobile Number	Accept only number	1.Go to mobile number field 2.Enter Mobile Number	Mobile number:7772459982	Should be Accept Only number	It accepts only number	Pass
TC_17	Mobile Number	It can accept only 10 digit number	1.Go to mobile number field 2.Enter Mobile Number	Mobile number:7772459982	Should be Accept Only 10 digit number	It accepts only 10 digit number	Pass
TC_18	Type of Criminal	Accept only characters	1.Go to type of criminal field 2.Enter Mobile Number	type of criminal: Murder	Should be Accept Only character	It accepts only character	Pass
TC_19	Image	Accept image	1.Click on the browse button 2.Then choose the image then it save into the data base	Image	Should accept image	It accepts image	Pass

TC_20	Username	Accept the username	1.Click on the username. 2.Enter the username	Username:admin	Should be accept username	It accepts the username	Pass
TC_21	Password	Accept correct password	1.click on the password field 2.Then enter the password	Password:12345	Should be accept the password	It accept the correct password	Pass
TC_22	Notification	It can accept the notification	1. Go to message section 2.type message whatever you want	notificatio: criminal is found	It should be accept the notification	Accept the notification	Pass
TC_23	Police station name	In notification section police station name only accept character	1.Go to destination police station name 2.Type police station name	destination name: jodhbhavi peth	In notification section police station name should be accept character	It can accept only chractor	Pass
TC_24	send time	notification send time is stored in data base	stored in data base	N.A	time should be storted in data base	It stored send time	Pass
TC_25	Notification data	All the notification data is stored in the data base	stored in data base	N.A.	All the notification data should be stored in the data base	All the notification data stored in the data base	Pass

| TC_26 | criminal count | In data base how much criminal data is stored its count is display on the home page | display the count in the home page | N.A. | In data base how much criminal data is stored its count is display on the home page | It is display the correct count | Pass |
| TC_27 | criminal data | In the home page all the criminal data is display | Display the all criminal data in the home page | N.A. | In the home page all the criminal data is display | It can be display the all information of criminal. | Pass |

Figure 7.1: Unit Testing Test Cases

7.1.2 Integration Testing Test Cases

Test case ID	Test Objectives	Condition	Steps	Input Data	Expected Result	Actual result	Status
TC_1	Submit Button	If all data is filled click on Submit button then it insert message displayed	1. Click on submit Button	N.A.	It should accept that data and insert message will be displayed	It accepts that data and insert message will be displayed	Pass
TC_2	Submit Button	If all data is filled click on add button then it go to the data base	1. Click on submit Button	N.A.	All data save into the database	All data save into the database	Pass
TC_3	Choose file button	when click on Choose file button then open the images of criminal then choose image and save into the database	1.Click on Choose file button 2.Then choose the criminal image	N.A.	when click on Choose file button then open the images of criminal then choose image and save into the database	Image stored into the database	Pass
TC_4	Upload button	When click on upload button then it display the criminal information and criminal image	1. click on upload button	N.A.	When click on upload button then it display the criminal information and criminal image	It displayed the criminal image and criminal information	Pass
TC_5	Login	When click on login then open the home page	1. click on login	N.A.	When click on login then open the home page	It opens the home page	Pass
TC_6	Admin Login	when admin username and password is given then the admin panel is open	1.Give the username and password. 2. Then click on login.	username : abc password:12345	It should be open the admin panel	It open the admin panel.	Pass
TC_7	client Login	when client username and password is given then the admin panel is open	1.Give the username and password. 2. Then click on login.	username : xyz password:12345	It should be open the client panel	It open the client panel.	Pass
TC_8	Criminal photo	When click on criminal photo then display the all information of criminal	1. click on the criminal photo	N.A.	When click on criminal photo then display the all information of criminal	It display the all information of criminal	Pass
TC_9	Notification	click on notification the open the notification page	1. Click on notification	N.A.	It should be open the notification page	open the notification page	Pass
TC_10	Notification	All the notification is stored in the data base	1. click on the add button	N.A.	All the notification should be stored in the data base	Notifications is stored in the data base	Pass

Figure 7.2: Integration testing Test Cases

7.1.3   System Testing Test Cases

Test case ID	Test Objectives	Condition	Steps	Input Data	Expected Result	Actual result	Status
TC_1	Registrartion form	Fill the right information into the form	1.Go to registration form 2.Fill the form	N.A.	It should be right data is fill in the form	The right data is fill in the form	Pass
TC_2	Registrartion form	When all the data is filled then all data will be stored into the database	1.Fill the all data 2.Then click on the add button	N.A.	All data should be save into the database	All data saved into the database	Pass
TC_3	Login page	It can ask the username and password	1.Go to the login page 2.Fill the user name and password	user name:admin and password:12345	If the username and password valid then it should be authenticate	The username and password valid then it can be authenticate	Pass
TC_4	Login page	It can ask the username and password	1.Go to the login page 2.Fill the user name and password	user name:admin1 and password:12345	If the username and password not valid then it can not be authenticate	The username and password not valid then it is not authenticating the user	Pass

TC_5	Image choose page	when click on Browse button then open the images of criminal then choose one image and then click on open button again come on to the that search page	1.Click on brows button 2.Then choose image 3.click pn open 4.then again come on to that page	Image	when click on Browse button then open the images of criminal then choose one image and then click on open button again come on to the that	It is same as the Expected result	Pass
TC_6	Image search page	When click on upload button then it display the criminal information and criminal image	1. click on upload button	N.A.	When click on upload button then it display the criminal information and criminal image	It displayed the criminal image and criminal information	Pass
TC_7	Display criminal name and image	Display only criminal name and image		N.A.	Should be display only criminal name and image	It display only criminal name and image	Pass
TC_8	all information of criminal	Display all information of criminal	1. click on view button	N.A.	Should be display all information of criminal	It display all information of criminal	Pass
TC_9	Password	Store the encrypted password in database	1.Click on the passowrd field 2.Then enter the password	Password:12345	Should store the encrypted password in database	It stores the encrypted password in databse	Pass
TC_10	Add record	When click on add record then open the registration form	1. Click on add record	N.A.	Should be open registration form	It open registration form	Pass

Figure 7.3: System Testing test Cases

7.1.4   Acceptance Testing Test Cases

Test case ID	Test Objectives	Condition	Steps	Input Data	Expected Result	Actual result	Status
TC_1	Registration form	Registration form should be filled by admin side only	1 Fill the registration form	criminal data	Registration form should be filled by admin side only	Registration form should be filled by admin side only	Pass
TC_2	search by image	The details of criminal should be display when the image is choosed for searching.	1. Click on choose file 2. Select criminal photo 3.Click on submit	Image	The details of criminal should be displayed when image is choosed for searching.	The details are displayed when the image of criminal is choosed for searching.	Pass
TC_3	Registration form	Registration form should not be filled by client side		N.A.	should not be filled by the client side	can not be filled by the client side	Pass
TC_4	search by image	search by image is done by the both side	1. Click on choose file 2. Select criminal photo 3.Click on submit	image	The details of criminal should be displayed when image is choosed for searching on both side	The details are displayed when the image of criminal is choosed for searching on both side	Pass

TC_5	search by the all information of the criminal	search by the all information of the criminal	1. click on serch field 2. Then search whatever you want	criminal data	Should be display all the data of the criminal	It display all the data of the criminal	Pass
TC_6	Notification	Notification is goes from admin side to client side	1. Fill the notification 2. click on add button	notification data	notification should be go from admin side to client side	Notification is goes from admin side to client side	Pass
TC-7	Print the criminal data	When click on print option then open the print view	1. click on print option	N.A.	It should be open the print view	It open the print view	Pass
TC_8	criminal count	In data base how much criminal data is stored its count is display on the home page	display the count in the home page	N.A.	In data base how much criminal data is stored its count is display on the home page	It is display the correct count	Pass
TC_9	criminal data	In the home page all the criminal data is display	Display the all criminal data in the home page	N.A.	In the home page all the criminal data is display	It can be display the all information of criminal.	Pass

Figure 7.4: Acceptance Testing test Cases

Chapter8

Advantages and Limitations

8.1 Advantages

- Reduce the manual work of criminal recording.

- Standalone application.

- Saves the time

- The application which is we create it is device independent it means that we can open this website in laptop, tablet, mobile, PC.

- To avoid the duplication of records.

8.2 Limitations

- We can not search criminal by their biometrics.

Chapter9

Conclusion and Future Scope

9.1   Conclusion

The proposed project allows us to search criminal records and add new records of criminals. This will avoid wastage of papers and big files and mainly man work to find old criminal records .It will be Beneficial for users as it provide exact information regarding criminals by using image search.

9.2   Future Scope

With recent development in application, we can add some extra features in application to give more accurate criminal search. We will add some real time features such as biometric fingerprint scanner, so the criminals old record can be searched by it.

Chapter10

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