DR. VIRENDRA SWARUP INSTITUTE OF COMPUTER STUDIES

SYNOPSIS ON

ONLINE FIR REGISTRATION AND MANAGEMENT SYSTEM

SUBMITTED TO:

Mr. Manish Jain

Project Head (BCA Dept.)

SUBMITTED BY:

Name : Shefali Goel

University Roll no. : 0903718

Section: C

Semester: 6th

INDEX

1.INTRODUCTION

The crime rate is increasing at an alarming rate and there are no existing technical systems in our country for the purpose of registering a case and managing the activities related to the FIR. We intend to create a project which will help bridge the gap between the police department and the common man.

- ‘Online FIR Registration and Management System’ is a web-based application. This software provides the facility for reporting online crimes, complaints, missing persons, show most wanted person details, show snatchers, show unidentified dead bodies, stolen vehicles as well as messaging.
- Any Number of clients can connect to the server. Each user first makes their login to sever to show their availability. The server can be any Web Server.
- The Online FIR Registration and Management project is to provide all crime management solutions which are easily accessible to everyone. The FIR application starts with the common people who want to log a complaint through the website so it can be very useful for the police department to find out the problem in the society without people are coming to the police station every time.

2.OBJECTIVES

The objective is to build an effective FIR registration system which will have various sections and a proper notification system once an action has been taken.

- To have a robust authentication and registration system for users. Authentication would include scanning of valid documents so that there would not be any false cases registered by mischief mongers.
- To ensure early FIR registration of accident and assault victims so that that early treatment can be given to the victims, thus helping in saving lives.
- To build a system that is compact as well as efficient. One of the objectives is to build a database that will be properly integrated with the server and will hold all the details of the criminals.
- The software is made to work efficiently and effectively. It results in regular and timely action against crime reported. It can be observed that the information can be obtained easily and accurately.
- The product provides a framework within which a user can easily work with. That was our next objective. We know users are of many categories, like users who know how to work with computers very well to users who didn't know about computers. So all the categories can use the software. So it should be user-friendly.

3. PROJECT CATEGORY AND NEED

The project ‘Online FIR Registration and Management System’ comes under the Relational Database Management System (RDBMS).

The reason why web-based software was developed are as follow:

- ✓ No need to go to the police station for lodging the FIR.
- ✓ Tracking the status made easy.
- ✓ Ensure data accuracy.
- ✓ Provide security.
- ✓ Greater efficiency and better service.
- ✓ User-friendly and interactive.
- ✓ Provide security.
- ✓ Proper control of the higher officials.
- ✓ Online backup.

4. Drawbacks of Existing Systems

In the existing system only we can see the details of particular information about the police stations in our state, the existing system has more workload for the authorized person.

Some drawbacks written below:

- More man power.
- Time consuming.
- Consumes large volume of pare work.
- Needs manual calculations.
- No direct role for the higher officials.
- Damage of machines due to lack of attention.
- The size of the database increases day-by-day, increasing the load on the database.
- At present there is no back up and data maintenance activity.
- Training for simple computer operations is necessary for the users working on the system.

5. REQUIREMENT SPECIFICATIONS

5.1. HARDWARE REQUIREMENTS:

- Processor (CPU) with 2 gigahertz (GHz) frequency or above
- A minimum of 2 GB of RAM
- Monitor Resolution 1024 X 768 or higher
- A minimum of 20 GB of available space on the hard disk
- Internet Connection Broadband (high-speed) Internet connection with a speed of 4 Mbps or higher
- Keyboard and a Microsoft Mouse or some other compatible pointing device

5.2. SOFTWARE REQUIREMENTS:

- Operating System : Windows family
- Software : Web browser
- Data Base : SQL Server2005

5.3. TOOLS AND TECHNOLOGY USED:

- JetBrains Phpstorm, Xampp server
- For front end language used: HTML, CSS, Jquery
- For back end language used: php, MySql

5.4. PLATFORM:

- Windows 7, Windows 8 or Windows 10.

4.5. FUNCTIONAL REQUIREMENTS:

4.5.1 **Requirement no 1**: FIR management

•Input: Fir ID, Fir Date, Fir details, essential documents, etc.

• Processing: After inputting data validation checks on various fields is performed. On submission of the information, the record is searched in the stored database on the basis of the information submitted.

• Output: If the information submitted by the user is valid it is stored in the database and displayed.

4.5.2 **Requirement No 2**: Add or Updation of user or administrator

• Input: Username, password.

•Processing: After entering the required information the various validation checks are performed on submission of the information, the Updation is made to the database.

•Output: The updated information is reflected in the stored database

4.5.3 **Requirement No 3:** Viewing

• Input: none.

• Processing: on clicking the view button the system search for the specified database stored.

• Output: if the specified database is stored then the whole database is displayed in the tabular form. The data displayed is the updated and current information of the user personal and academic details. It also displays the status of the FIR.

4.6 NON- FUNCTIONAL REQUIREMENTS:

- Secure access to confidential data (user's details).
- 24 X 7 availability.
- Better component design to get better performance at peak time.
- Flexible service based architecture will be highly desirable for future extension.

5 SCOPE OF THE PROJECT

The system ‘ONLINE FIR REGISTRATION AND MANAGEMENT’ will be a Reporting application that will be used for automating the manual process of register different case in the police Department.This system will manage the details of all the crimes that get registered in police Department. The system provides an interface to store the crime details of criminals or prisoners and allows the user to search and view records. The system should have a login. The system should support for Data Entry module for Nominal Roll, Case register for each prisoner entering the prison The system will greatly simplify the overall procedure of crime files.

The proposed system includes the following features:

- Login for user and admin
- Complaint registration
- View complaint status
- Give reviews

At its core, the system should offer the following basic functionalities:

- The system requests that the administrator/user to enter his/her username, password.
- The administrator/user enters his/her username, password.
- The system validates the entered username and password, logs the actor into the system.
- The administrator maintains the record of information of various fir, crimes, and related objects, whereas the user, can file the fir by giving valid details and check his/her previously lodged fir’s and their status.
- If in the basic flow, the actor enters an invalid name, password, the system displays an error message. The actor can return to the beginning of the basic flow.

6 SYSTEM ATTRIBUTES

- *Reliability*: This system is designed to have a very simple database just to cater to the exact need of Online FIR management. It is tested for all the constraints at the development stage.

- Availability: This system will be available until the system on which it is installed is running.

- Security: This system is provided with authentication without which no user can pass. So only the legitimate users are allowed to use the application. If the legitimate users share the authentication information then the system is open to outsiders.

- Maintainability: There will be maintenance required for the software.

- Portability: The system is portable.

7 MODULES

7.5 ADMIN MODULE:

The module helps the admin in the following ways:

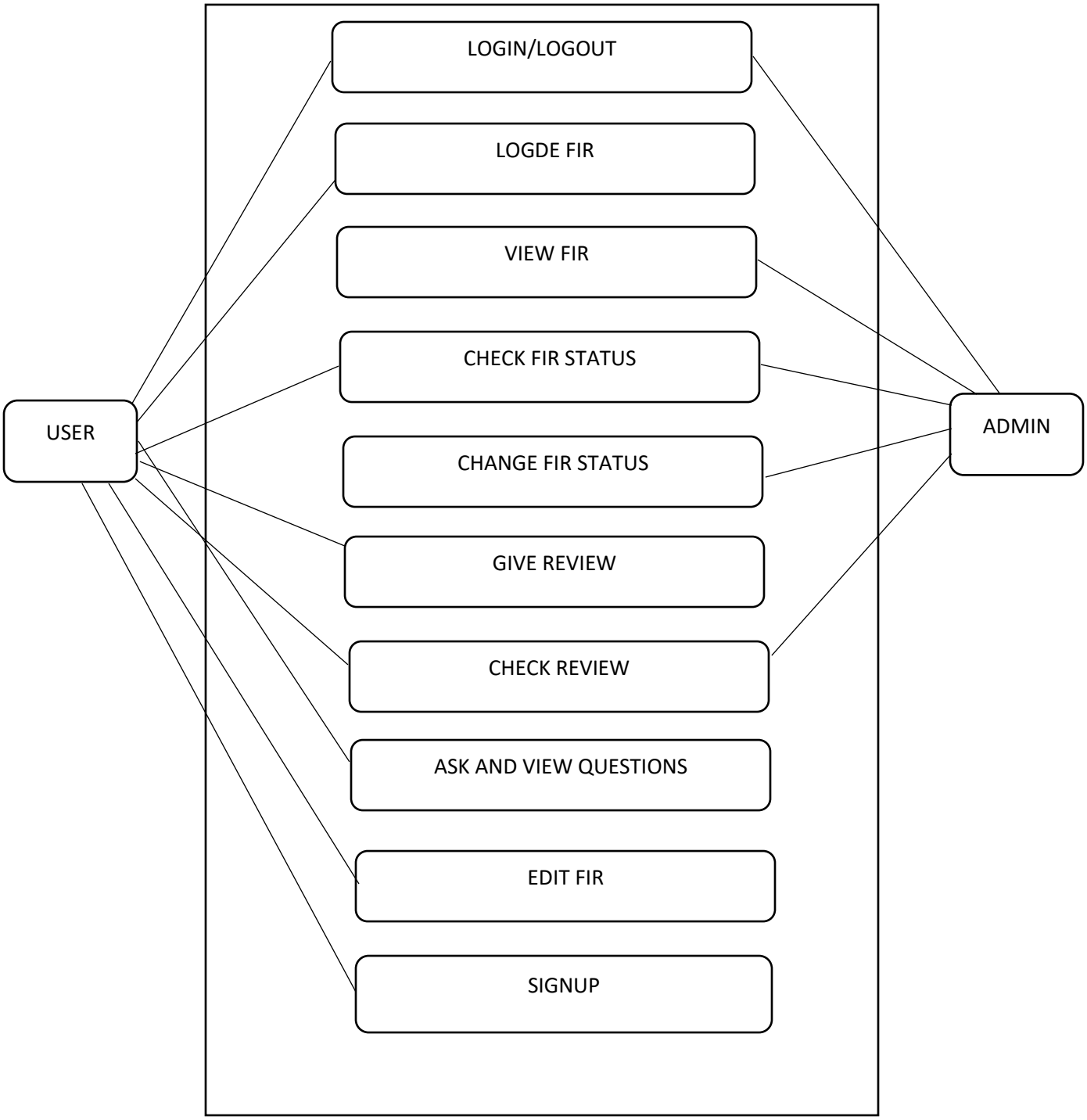
- Viewing and analyzing user complaint.
- Changing complaint status.
- Viewing and deleting the user's review.

7.6 USER MODULE:

The module helps the user in the following ways:

- Add online complaints.
- Check complaint status.
- Ask questions.
- Give review.
- Edit complain.
- Viewing previously lodged complains.
- Logging in.

8 USE CASE DIAGRAM

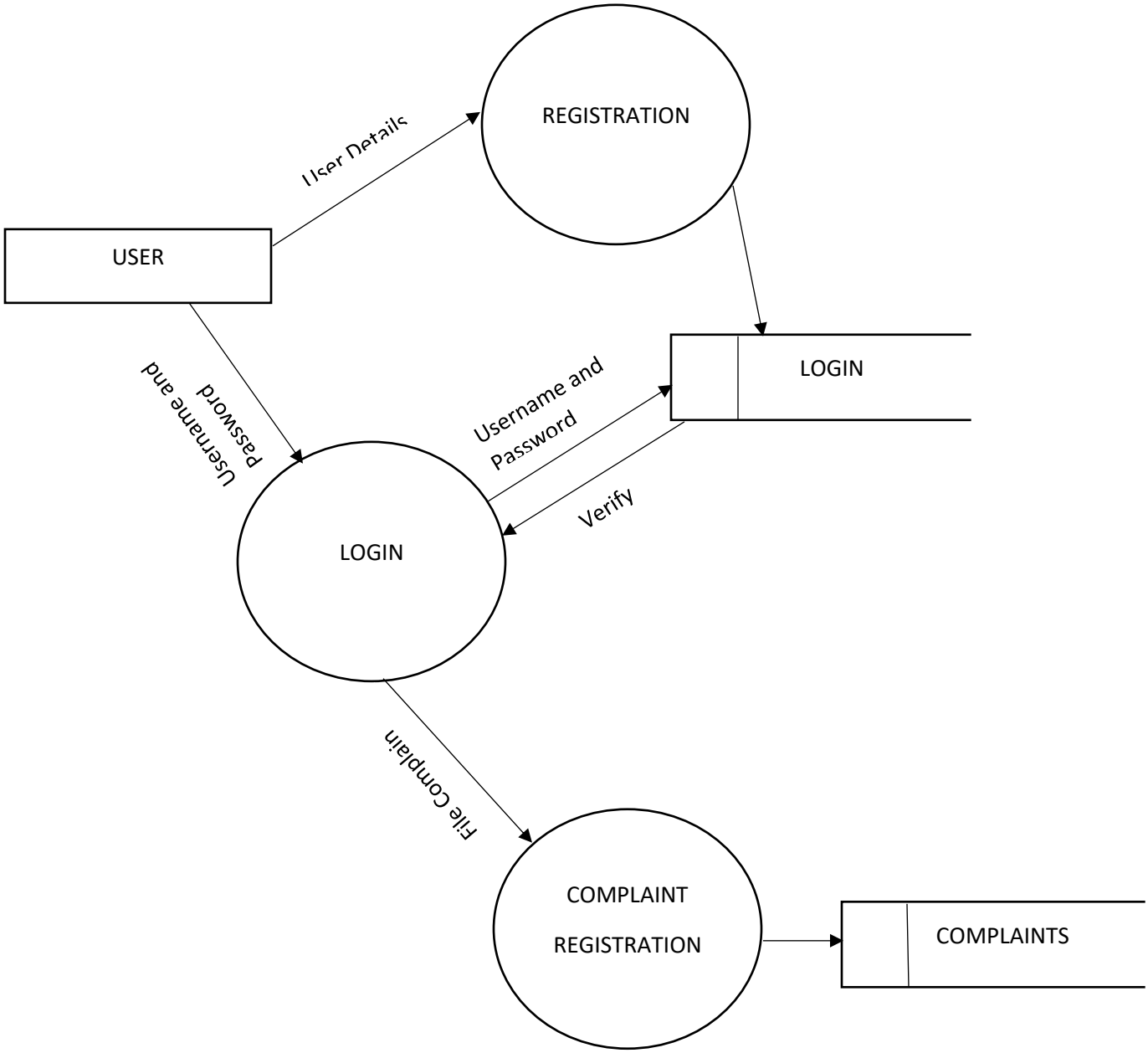


9 DATA FLOW DIAGRAM

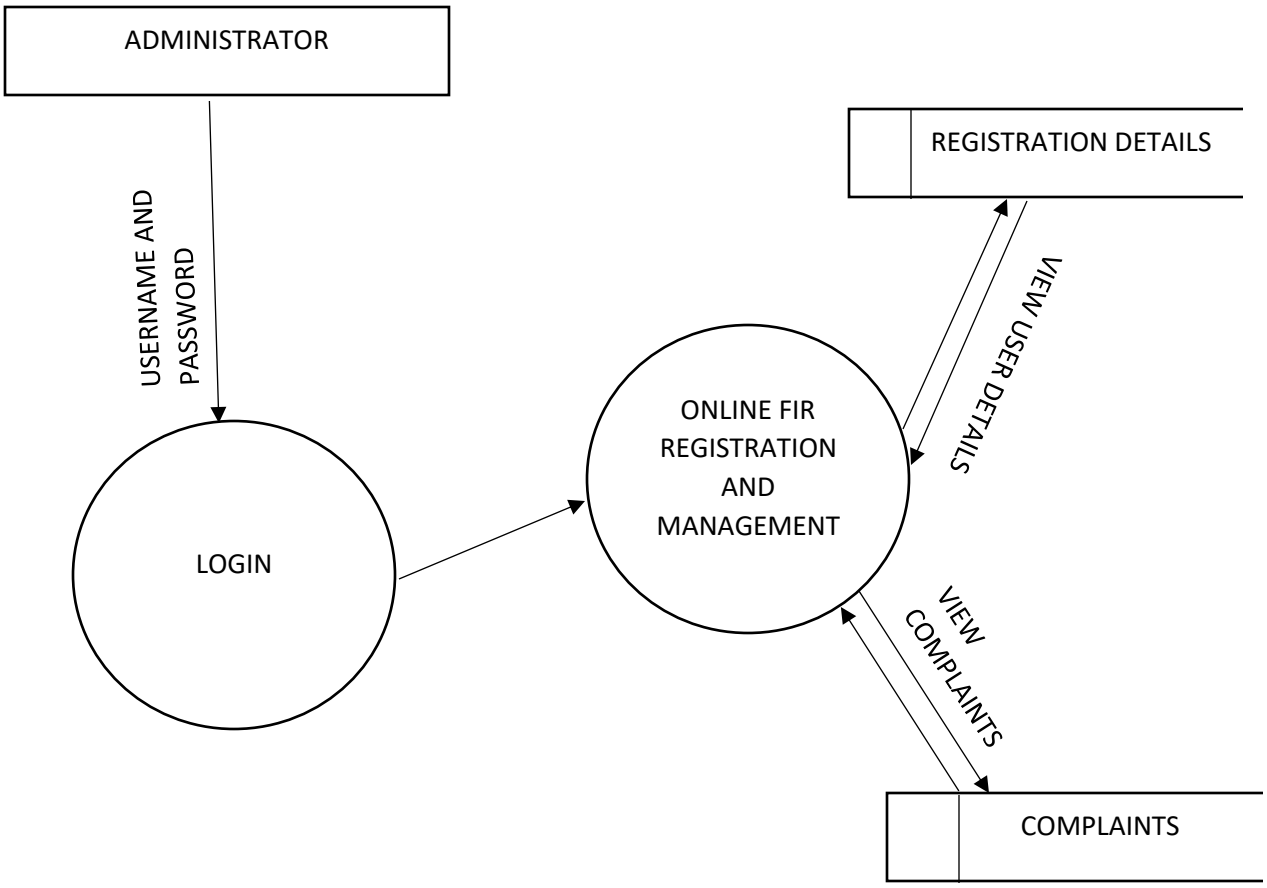
The data flow diagram enables the software engineer to develop models of the information domain and functional domain at the same time. As the DFD is defined into a greater level of details, the analyst performs as implicit functional decomposition of the system, thereby accomplishing the fourth operational analysis principle for functions. At the same time, the DFD refinement results in a corresponding refinement of data as it moves through the processes that embody the application.

9.5 LEVEL – 0

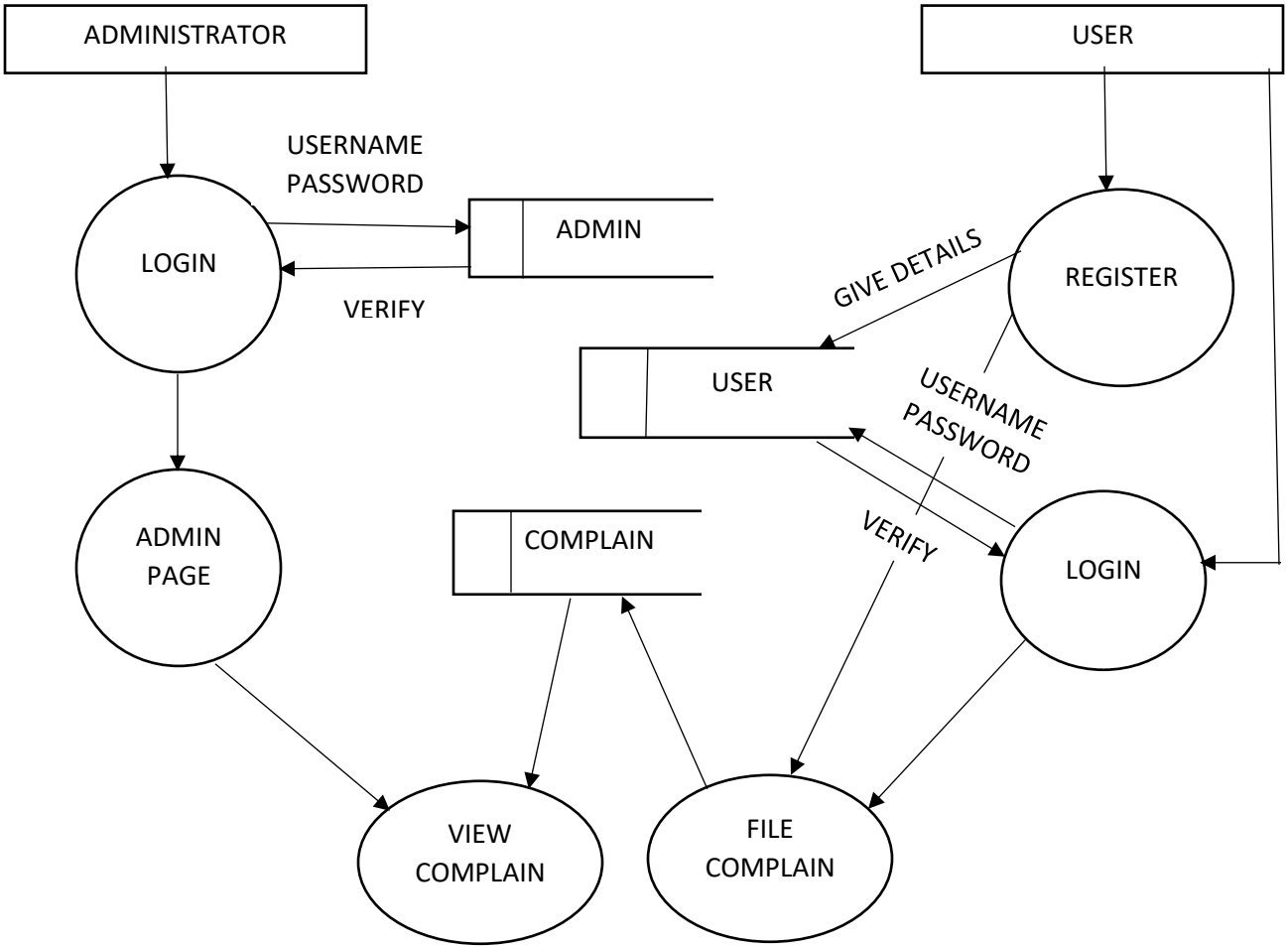
9.2.1 LEVEL - 1 DFD (USER MODULE):



9.2.2. LEVEL 1 DFD (ADMIN MODULE):

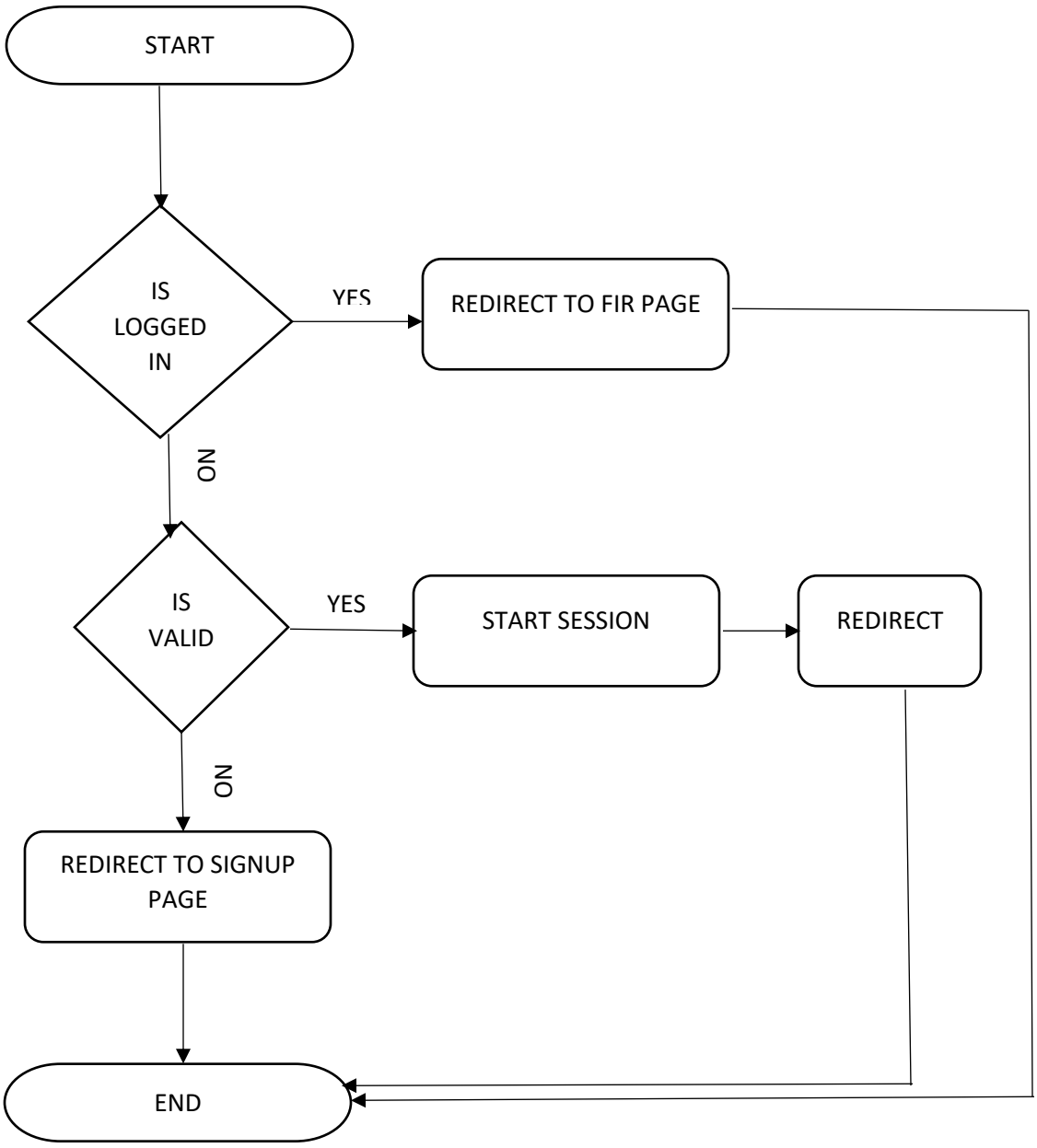


9.3. LEVEL 2 DFD:

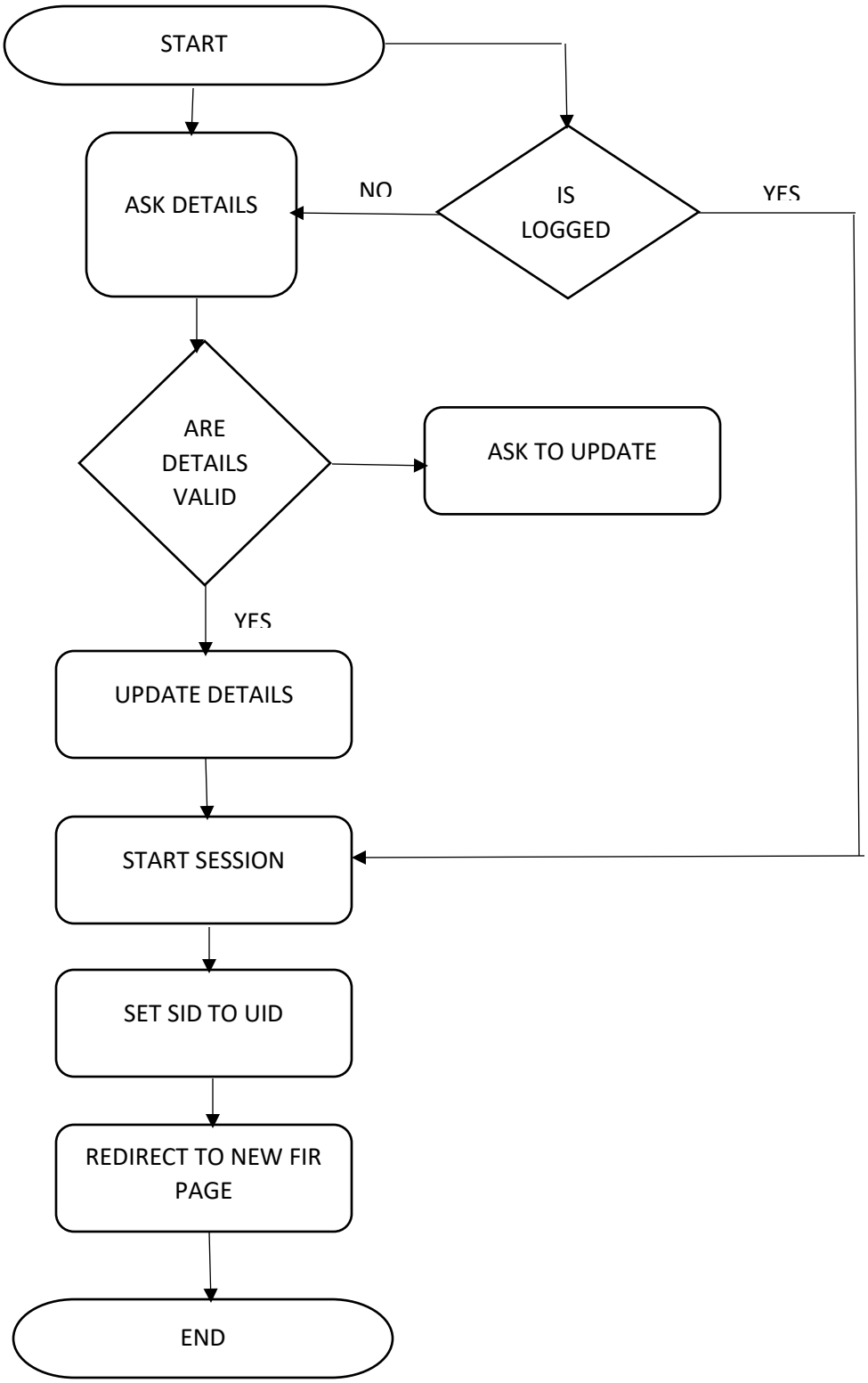


10. FLOWCHART

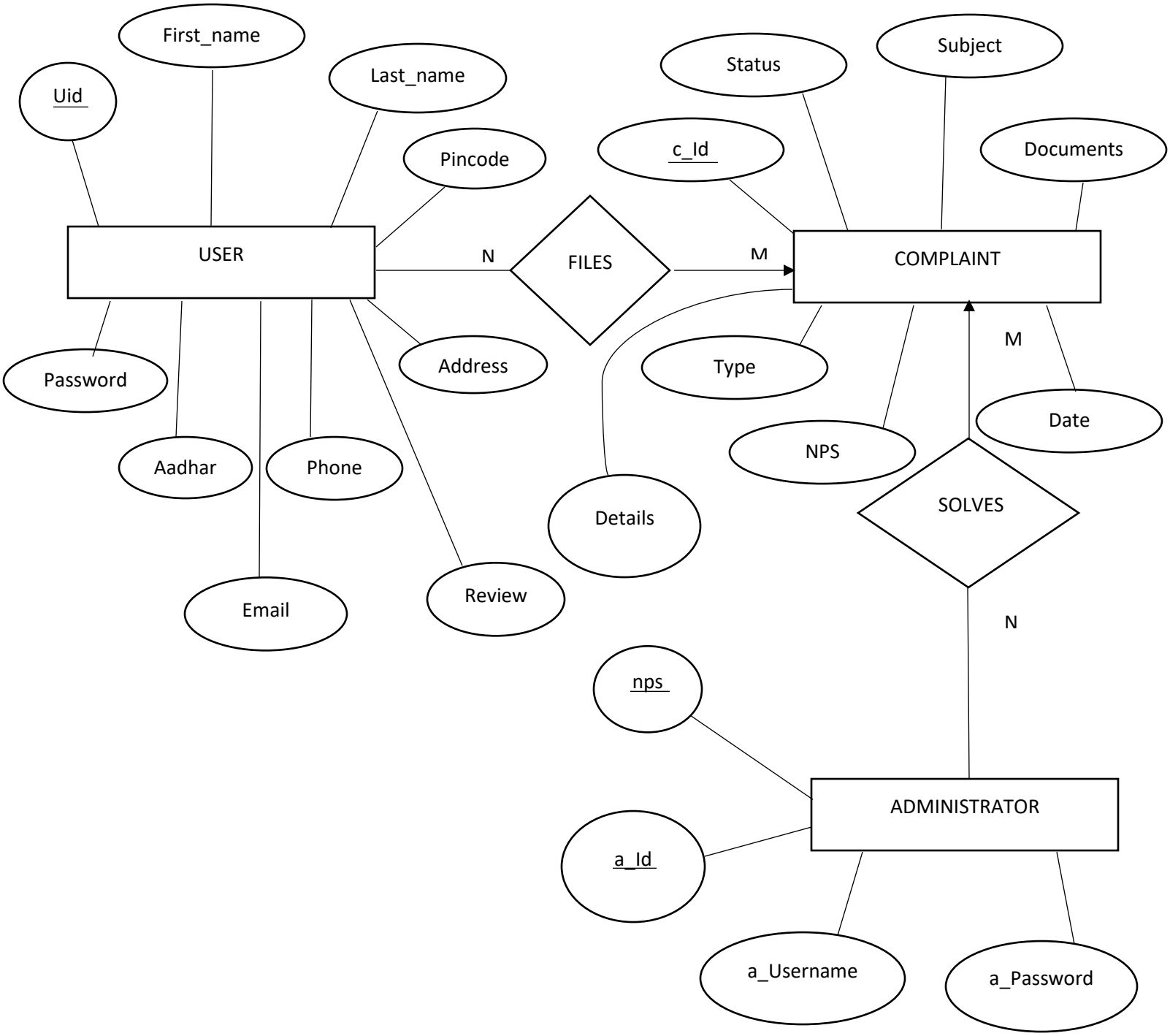
10.1. User Login/ Signup



10.2. Administrator Login



11.ER DIAGRAM



12. SCHEMA

USER(uid, First_name, Last_name, Pincode, Address, Phone, Aadhar, Password, Email, Review).

ADMINISTRATOR(a_Id, a_Username, a_Password,nps).

COMPLAINT(c_Id, Status, Subject, Documents, Details, Date, NPS, Type).

FILES(uid, c_Id).

SOLVES(a_Id, c_Id,nps).

13. DATABASE STRUCTURE

13.1. USER

NAME	TYPE	
Uid	Int(11)	(Auto-Increment Primary Key)
First_name	Varchar(20)	
Last_name	Varchar(20)	
Pincode	Int(6)	
Password	Varchar(10)	
Email	Varchar(30)	
Address	Varchar(40)	
Phone	Int(10)	
Review	Text	
Aadhar	Int(12)	

13.2. ADMIN

ITEM	NEEDED	
A_id	int(30)	(Auto-Increment Primary Key)
A_username	varchar(20)	
A_password	varchar(20)	
nps	Text	(Primary Key)

13.3. ABOUT FIR

NAME	TYPE	
C_id	int(11)	(Auto-Increment Primary Key)
Uid	int(11)	(Foreign Key)
Status	varchar(20)	
Subject	varchar(20)	
Documents	Text	
Date	date	
Nps	Text	(Primary Key)
Type	varchar(10)	
Details	varchar(150)	

14.RISK MANAGEMENT

During the analysis of our application, we discovered some of the risks that could affect our application while developing and also while using.

These are those risks:

14.1. Technical Risk

14.2. Project Risk

14.3. Political Risk

14.1. Technical Risks: First the application struck with the problem of the browser because it is depended on the browser technology as the website is going to be opened at the user side in the browser where any user can use any of the browsers available today. Our project is developed under the data documentation list of various hardware products of the user and according to their needs.

14.2. Project Risks: As this application is developed for crime reporting, security has been given special importance. Privacy is a basic requirement expected by the users of this application. In our project, there is very less requirement of the budget because the only concentration here is on the computer and the internet access when this project is used as the real application so economical risks do not matter so much in our application.

14.3. Political Risks: There is no need to worry about the political issues here because it is just a website where the political issues may not occur.

15.PROJECT BENEFITS

- OFRM initiates the objective of providing the user with customized and powerful complaint registration and process management system side software.
- This system will provide a better perspective for the enhancement of organization regarding quality and transparency.
- Ensure data accuracy.
- Reduce the damages of the machines.
- Minimize manual data entry.
- Greater efficiency.
- Better service.
- User-friendliness and interactive.
- Minimum time required.

16.FUTURE ENHANCEMENT

- We can upload video and audio of crime.
- It can make this application more hackproof.
- Users can view the progress of their complaints online.
- By the future technology, user can view the case details and progress of the complaints on their mobile phones.
- Face recognition technology can apply. User or witness of the crime can give the physical information of the thief.

17.CONCLUSION

ONLINE FIR REGISTRATION AND MANAGEMENT initiates the objective of providing the user with customized and powerful complaint registration and process management system side software. The software is built with all options such as complaint registration, prisoner's registration, and postmortem report generation, etc…All the requirements specified during the analysis and design phase are fully met, thus resulting in the formation of good software. The interface provided is very user-friendly and flexible for all times.