**ACKNOWLEDGEMENT:**

I take this occasion to thank God, almighty for blessing me with his. I extend my sincere and heartfelt thanks to my honorable Teacher, for providing me with the right guidance and advice at the crucial junctures and for showing me the right way. Last but not the least, I would like to thank the faculty members also, at this occasion.

**ABSTRACT**

Hospital management system is a project which aims in developing a computerized system to maintain all the daily work of a general hospital. This project has many features which are generally not available in normal hospital management systems like facility of admin and receptionist login. It has also a facility where admin and receptionist after logging in their accounts can see list of patient and doctors and also the doctors can see the patient list.

Overall this project of mine is being developed to help the patient and doctors as well as staff of hospital to maintain the hospital in the best way possible and also reduce the human efforts.

**TABLE OF CONTENTS**

|  |  |
| --- | --- |
| CONTENTS | PAGE NO. |

1. INTRODUCTION 5

1.1 PROJECT AIMS AND OBJECTIVES 5

1.2 OPERATION ENVIRONMENT 5

2. SYSTEM ANALYSIS 6

2.1 SOFTWARE REQUIREMENT SPECIFICATION 6

2.1.1 GENERAL DESCRIPTION: 6

2.1.2 SYSTEM REQUIREMENTS 6

2.1.2.1 NON FUNCTIONAL REQUIREMENTS 6

2.1.2.2 FUNCTIONAL REQUIREMENTS 7

2.1.3 SOFTWARE AND HARDWARE REQUIREMENTS 8

2.1.3.1 SOFTWARE REQUIREMENTS 8

2.1.3.2 HARDWARE REQUIREMENTS 8

2.2 EXISTING VS PROPOSED 9

3. SYSTEM DESIGN 10

3.1 TABLE DESIGN 10

1 ADMIN TABLE 10

2 RECEPTIONIST TABLE 10

3 DOCTOR TABLE 11

4 PATIENT TABLE 11

5 COMMENT TABLE 11

4. SYSTEM IMPLEMENTATION 12

4.1 SCREEN SHOTS 12

1 HOME PAGE 12

2 ADMIN LOGIN PAGE 12

3 ADMIN FORGET PASSWORD PAGE 13

4 ADMIN PANEL 13

5 ADMIN’S DOCTORS OPTION PAGE 14

6 ADMIN’S PATIENTS OPTION PAGE 14

7 COMMENT PAGE 15

8 RECEPTIONIST LOGIN PAGE 15

9 RECEPTIONIST PANEL 15

10 ADD PATIENT PAGE 16

11 COMMENT SECTION 16

12 RECEPTIONIST FORGET PASSWORD PAGE 16

13 DOCTOR PANEL 17

14 PATIENT LIST 17

15 DOCTOR’S PROFILE 17

5. CONCLUSION & FUTURE SCOPE 18

5.1 CONCLUSION 18

5.2 FUTURE SCOPE 18

CHAPTER 1

**INTRODUCTION**

This chapter gives an overview about the aim, objectives, background and operation environment of the system.

1.1 PROJECT AIMS AND OBJECTIVES:

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

 Home page where all the operation are linked.

 Add doctors

 Add patient

 login page where admin can login

 login page where receptionist can login

 Add patient and search patient.

 Add doctor and search doctor.

 Release patient.

 See patient list

and so on.

1.2 OPERATION ENVIRONMENT:

|  |  |
| --- | --- |
| PROCESSOR | INTEL CORE PROCESSOR OR BETTER PERFORMANCE |
| OPERATING SYSTEM | WINDOWS 10 |
| MEMORY | 1GB RAM OR MORE |
| HARD DISK SPACE | MINIMUM 1GB FOR DATABASE USAGE FOR FUTURE |
| DATABASE | SQLITE DATABASE |

CHAPTER 2

**SYSTEM ANALYSIS**

In this chapter, I will discuss and analyze about the developing process of Hospital Management System including software requirement specification (SRS) and comparison between existing and proposed system. The functional and nonfunctional requirements are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out. Besides that, existing vs proposed provides a view of how the proposed system will be more efficient than the existing one.

**2.1** SOFTWARE REQUIREMENT SPECIFICATION

2.1.1 GENERAL DESCRIPTION:

* PRODUCT DESCRIPTION: Hospital Management System is a computerized system which helps user to manage the hospital’s daily activity in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming.

It can help user to manage the transaction or record more effectively and time-saving.

* PROBLEM STATEMENT: The problem occurred before having computerized system includes:

 File lost: When computerized system is not implemented file is always lost because of human environment. Sometimes due to some human error there may be a loss of records.

 File damaged: When a computerized system is not there, file is always lost due to some accident like spilling of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.

2.1.2 SYSTEM REQUIREMENTS:

2.1.2.1 NON FUNCTIONAL REQUIREMENTS

1. EFFICIENCY REQUIREMENT:

When a hospital management system will be implemented Admin, Doctor and Receptionists will easily access hospital will be very faster.

1. RELIABILITY REQUIREMENT:

The system should accurately perform member registration.

1. USABILITY REQUIREMENT:

The system is designed for a user friendly environment so that user and staff of hospital can perform the various tasks easily and in an effective way.

1. IMPLEMENTATION REQUIREMNTS

In implementing whole system, it uses java in front end with Sqlite database which will be used for database connectivity and the backend i.e. the database part is developed using Sqlite Manager.

* + - 1. FUNCTIONAL REQUIREMENTS

1 ADMIN LOGIN

This feature used by the admin to login into system. They are required to enter user name and password before they are allowed to enter the system. The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

-The system must only allow admin with valid username and password to enter the system

-The system performs authorization process which decides what admin level can access to.

-The admin must be able to logout after they finished using system.

1. RECEPTIONIST LOGIN

This feature used by the receptionist to login into system.

-System must be able to verify information

-System must be able to delete information if information is wrong

1. ADD NEW DOCTOR AND PATIENT

This feature allows to add new doctors and patient to the hospital.

-System must be able to verify information

- System must be able to not allow two doctors and two patient having same id.

1. SEARCH AND RELEASE A PATIENT

This feature allows to find and release patient and also view list of patient list.

-System must be able to enter information in database.

-System must be able to update list of patient.

- System must be able to search if available or not before operation.

2.1.3 SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

2.1.3.1 SOFTWARE REQUIREMENTS:

 Operating system- Windows 10 is used as the operating system as it is stable and supports more features and is more user friendly

 Database: Sqlite is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.

 Development tools and Programming language- Java is used to write the whole code java SQL for database.

2.1.3.2 HARDWARE REQUIREMENTS

 Intel core i3 6th generation or more is used as a processor because it is fast than other processors provide reliable and stable and we can run our pc for longtime. By using the processor, we can keep on developing our project without any worries.

 Ram 4 GB is used as it will provide fast reading and writing capabilities and will in turn support in processing

2.2 EXISTING VS PROPOSED SYSTEM

i. Existing system does not have any facility of admin and receptionist login whereas proposed system will have a facility of this.

ii. Existing system does not have a facility of search patient whereas proposed system has a facility of this.

iii. Existing system does not have any option of showing list of issue patient and add, search new patient whereas proposed system will have this facility

iv. Existing system does not have any facility to add doctors as well as search doctors whereas proposed system provides admin with a property of add doctors and search doctors.

vi. Existing system does not have any facility for release patients where as in proposed system after logging in to admin’s accounts they can add doctor as well as search doctors to improve service.

CHAPTER 3

**SYSTEM DESIGN**

This chapter show all about the design of the system of my application

3.1 TABLE DESIGN**:**

1. Admin Table:

|  |
| --- |
|  |

1. Receptionist Table:

|  |
| --- |
|  |

1. Doctor Table

|  |
| --- |
|  |

1. Patient Table

|  |
| --- |
|  |

1. Comment Table:

|  |
| --- |
|  |

CHAPTER 4

**SYSTEM IMPLEMENTATION**

This chapter shows that how I implement the system with screenshots of each interfaces of my project.

4.1 SCREENSHOTS:

1. HOME PAGE:

|  |
| --- |
|  |

This is the first page appears when one opens the application. There are 3 buttons that are links with 3 operations.

1. Admin login page:

Admin can login in his/her account with this page.

|  |
| --- |
|  |

If they enter a wrong username or password, a message will be shown just like bellow

|  |
| --- |
| C:\Users\Captain Sparrow\Downloads\asif\Hospital_Management_System\screanshots\3.PAssword wromg.png |

1. Admin Forget Password page:

Admin can retrieve his/her password from using this page when they forget their password.

|  |
| --- |
|  |

When one opens an account, the data goes to account database which is shown in section 3.1

1. ADMIN PANEL:

After a successful login of admin, admin panel opened.

|  |
| --- |
|  |

1. Admin’s doctors option page:

Admin can add new doctor and search an existing doctor by using this page.

|  |
| --- |
|  |

1. Admin’s patients option page:

Admin can search a patient and release a patient by using this page.

|  |
| --- |
|  |

1. Comment Table:

This page shows the list of comments done by the users.

|  |
| --- |
|  |

Added student will add into student database which is shown in section 3.1.

1. Receptionist Login Page

Receptionist Enter into his/her operation by log in by this page.

|  |
| --- |
|  |

1. Receptionist Panel:

Receptionist’s operations after he/she logged in into his/her account appeared in this page.

|  |
| --- |
|  |

1. Add Patient Page:

Receptionist can add or register new patient into the hospital’s database by this page.

|  |
| --- |
|  |

1. Comment Section:

User can post a comment about the application or the system by this page.

|  |
| --- |
|  |

1. Receptionist Forget Password Page:

If receptionist forget the password to login, then he/she can retrieve it by using this page.

|  |
| --- |
|  |

1. Doctor Panel:

Doctor’s operations are appeared in this page.

|  |
| --- |
|  |

1. Patient List Page:

|  |
| --- |
| C:\Users\Captain Sparrow\Downloads\asif\Hospital_Management_System\screanshots\Screenshot (57).png |

1. Doctor’s Profile Page:

|  |
| --- |
| C:\Users\Captain Sparrow\Downloads\asif\Hospital_Management_System\screanshots\Screenshot (58).png |

CHAPTER 5

**CONCLUSION & FUTURE SCOPE**

5.1 CONCLUSION:

This application provides a computerized version of hospital management system which will benefit the patients as well as the staff of the hospital.

It makes entire process easier where patient can take service, staff can give service to patient and doctors can stay in touch with patients easily. It also has a facility for admin login where admins can login and can see status of whole system as well patient searching and releasing. There is a future scope of this facility that many more features such as Password changing for admin, receptionist, Doctor Login and patient login can be added.

5.2 FUTERE SCOPE:

1. Doctor login page can be added.
2. Doctors can directly communicate with the registered patients through the system.
3. Record all data about a patient.
4. Messaging system can be added.