Doctors Appointment Booking System

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Abstract- *Life is getting too busy to get medical movables in person and to maintain a proper health care. The main idea of this work is to give ease and comfort and it also resolves the problems that the cases have to face while making an appointment. The health shadowing system are helpful in good way. This design works as easy platform for the cases to bespeak an appointment. This system provides an easy interface for the cases for reserving the appointment and easy for doctors too for checking the reserved movables.*

Keywords- Appointment, Hospital, Healthcare, Tracking.

I. INTRODUCTION

The "Doctor Appointment System" has been developed to stamp the problems prevailing in the rehearsing homemade system. This Design is supported to exclude and, in some cases, reduce the rigors faced by the being system. Also, this system is designed for reserving the appointment with the doctor hard the user.

The operation is reduced as important as possible to avoid mistakes while entering the data. It also provides error communication while entering invalid data. No formal knowledge is demanded for the user to use this system, as described over can lead to error free, secure, reliable and fast operation system. It can help the user to concentrate on their other exertion rather to concrete on the record keeping. Thus, it will help association in better operation of resources.

II. METHODOLOGY

2.1 Proposed Techniques or Methods to be implemented

The project is built up from the Object-Oriented Programming Language JAVA.The basic concepts of Core Java are used to build up this project.

As Java is a high-level, general-purpose, object-oriented, and secure programming language developed by James Gosling at Sun Microsystems, Inc. in 1991. It is formally known as OAK. In 1995, Sun Microsystem changed the name to Java. In 2009, Sun Microsystem takeover by Oracle Corporation.

Features of Java

- Simple: Java is a simple language because its syntax is simple, clean, and easy to understand. Complex and ambiguous concepts of C++ are either eliminated or re-implemented in Java. For example, pointer and operator overloading are not used in Java.
- Object-Oriented: In Java, everything is in the form of the object. It means it has some data and behavior. A program must have at least one class and object.
- Secure: Java is a secure programming language because it has no explicit pointer and programs runs in the virtual machine. Java contains a security manager that defines the access of Java classes.
- Platform-Independent: Java provides a guarantee that code writes once and run anywhere. This byte code is platform-independent and can be run on any machine.

OOPs (Object Oriented Programming System)

Object-oriented programming is a way of solving a complex problem by breaking them into a small sub-problem. An object is a real-world entity. It is easier to develop a program by using an object. In OOPs, we create programs using class and object in a structured manner.

- Class: A class is a template or blueprint or prototype that defines data members and methods of an object. An object is the instance of the class. We can define a class by using the class keyword.
- Object: An object is a real-world entity that can be identified distinctly. For example, a desk, a circle can be considered as objects. An object has a unique behavior, identity, and state.
- Encapsulation: An encapsulation is the process of binding data and functions into a single unit. A class is an example of encapsulation. In Java, Java bean is a fully encapsulated class.

2.2 Tentative Project Flowchart

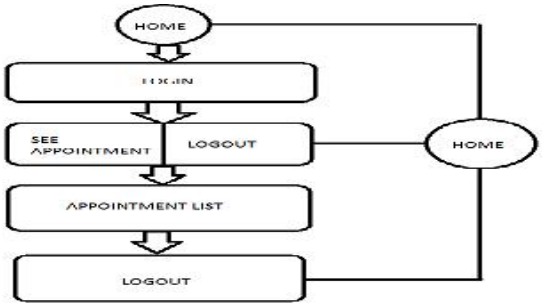

Figure 1: Doctors Module

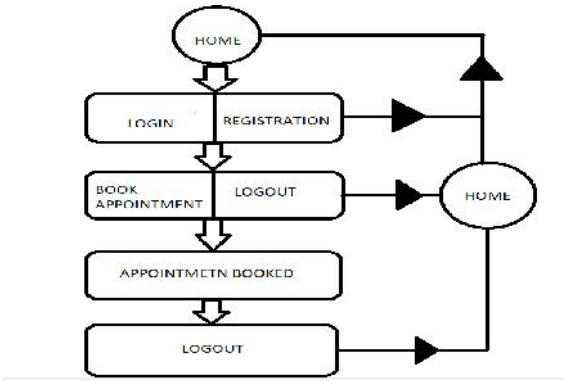

Figure 2: Patients Module

2.3 Advantages

1. Convenient and Easy:

This provide an ease way to book the appointment and ease form filling and give error messages if any error or mistake is done by the user or the doctor while booking and while viewing the appointments. This project is very convenient for the users for making less errors while doing the job.

2. Money and Time saving:

As it is an easy way to book the appointment it saves lots of time and efforts of the user and the patients who are in emergency. It helps to find out the nearest doctor among them.

2.4 Application

The application of this project is simply to book the appointment by the patients. For doctors the project is used to see the pending appointments.

III. MODELING AND ANALYSIS

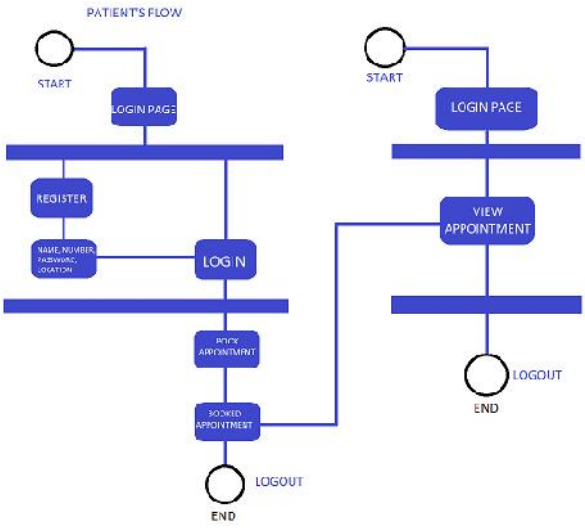

Figure3: Flow of the Patients and Doctors.

IV. RESULTS AND DISCUSSION

The proposed project will make the user easier for booking the appointment on this system.

Hence there will be no need of standing in lines for booking appointments. One can book appointment according to their time and location.

V. CONCLUSION

This proposed strategy is for booking the appointments in easy way. Where patients will login and book the appointment. The future development will be of multicity doctors in the system.

The future scope is the important part for this project. While the future aspects will be:

1. Doctors from multiple cities will be added in the system.
2. The forgot password setting will be added to the system after converting the full project in ANDROID format(application).
3. Doctor can register themselves in that application

REFERENCES

[1] Application of Intelligent Agents in Hospital Appointment Scheduling System. January 2012. International Journal of Computer Theory and Engineering. DOI:10.7763/IJCTE.2012.V4.545.

[2] Adaptive dynamic programming algorithms for sequential appointment for scheduling with patient preferences. December 2014. Artificial Intelligence in Medicine 63(1). DOI:10.1016/J.artmed.2014.12.002.
[3] Mobile health interventions in developing countries: A systematic review.July 2020. Health Informatics Journal 26(3):146045822093710. DOI:10.1177/1460458220937102
[4] Mr. Doc: A Doctor Appointment Application System. December 2016. International Journal of Computer Science and Information Security, 14(12):452-460.