

Hospital Appointment Booking System

Submitted in partial fulfillment of the requirements

of the

JAVA LAB
DATABASE LAB

by

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INTRODUCTION:

Traditionally, medical appointments have been made with schedulers over the telephone or in person. These methods are based on verbal communications. However, because these traditional methods require the intervention of schedulers, the ability to get a timely appointment is not only limited by the availability of appointment slots, but also by the schedulers and phone lines. Patient's satisfaction with appointment booking is influenced by their ability to book at the right time with the right health service providers.

The Internet has recently emerged as another means to make appointments. Web-based appointment scheduling has been a popular research topic. Several studies conducted satisfaction surveys and found that Web-based appointment scheduling is an extremely important feature, and most patients would use the service again.

OBJECTIVE:

The main objective of the project on Hospital Appointment Booking System is to manage the details of Doctor, Appointment, Patient, Booking, etc. It manages all the information about Doctor, Patient, and Booking history. The project is totally built at administrative (i.e. admin) end and thus only the administrative (i.e. admin) is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Doctor, Appointment, and Patient. It tracks all the details about the Patient, Doctor, Appointment, etc.

Functionalities provided by the Hospital Appointment Booking System are as follows:

- Provides the searching facilities based on various factor such as Doctor Name, Doctor Category, Doctor Address (i.e. City).
- Hospital Appointment Booking System also manages the details for booking doctor appointment and viewing them any time.
- It tracks all the information of Doctor appointment, booking time of appointment.
- Manage the information of appointment.
- Shows the information and description of the Doctor and all the Patient.

- To increase the efficiency of managing the Doctor appointment.
- It deals with monitoring the information of booking.
- Manage the information of Doctor, by adding any Doctor.
- Manages the information of booking.

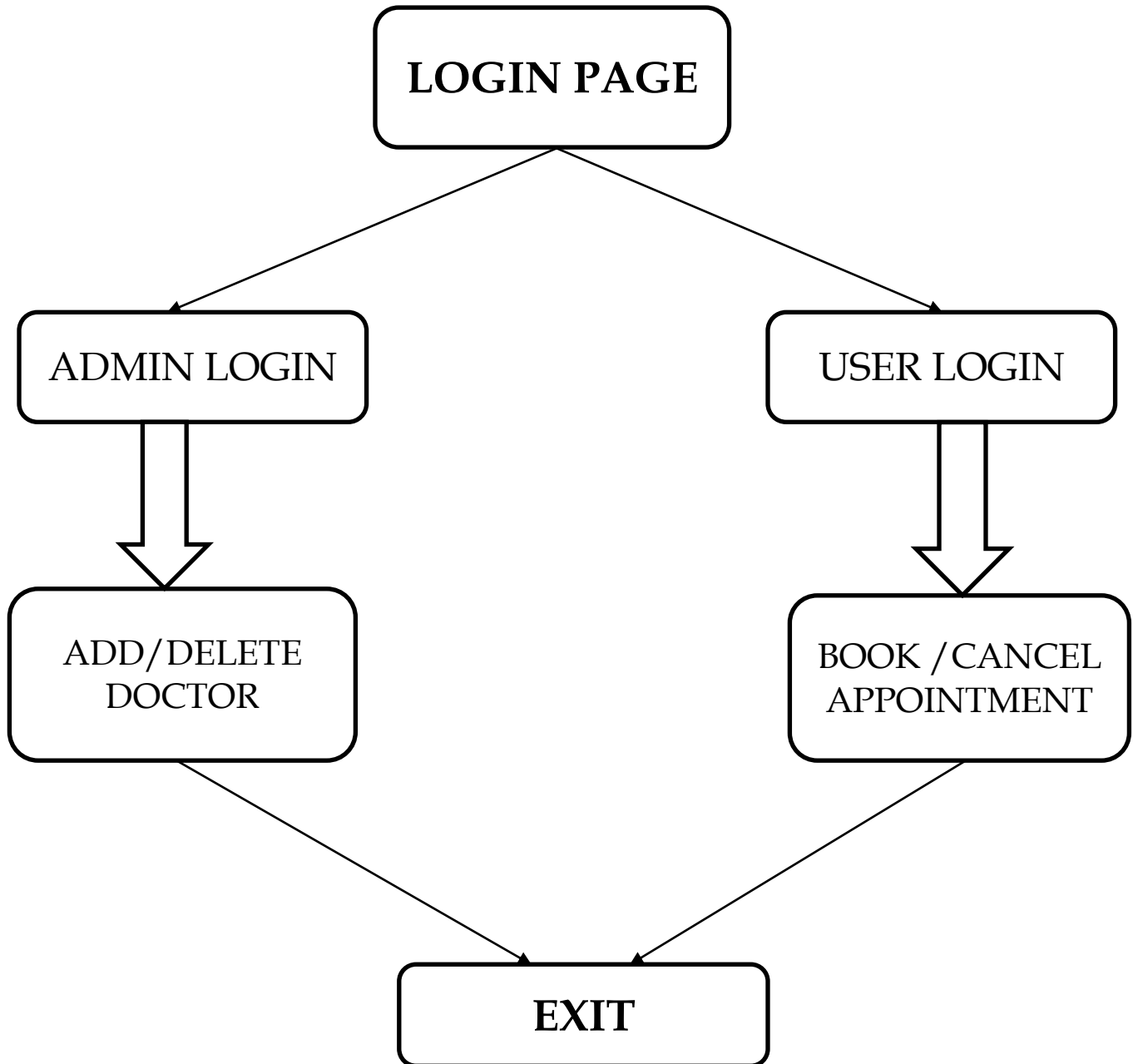
PROBLEM STATEMENT:

In the current marketplace there are several apps for communication between doctors and patients but most of their functionalities are commercial, and not really helpful to the users. There are no apps which actually meet the patient's basic needs and no such apps that fulfill the patient's expectations from the doctors. Though these apps have publicized themselves as the best service providers but all the service is just limited to money making by making appointments with doctors, tracking the visit history, patient billings, and very minimal interaction related to disease condition of the patients. This project aims at changing this kind of misleading and unnecessary interaction between doctors and patients, with a new initiative which focuses more on patient benefits relating to his/her disease treatment and facilitating the doctors with an easy and optimal way to treat the patients.

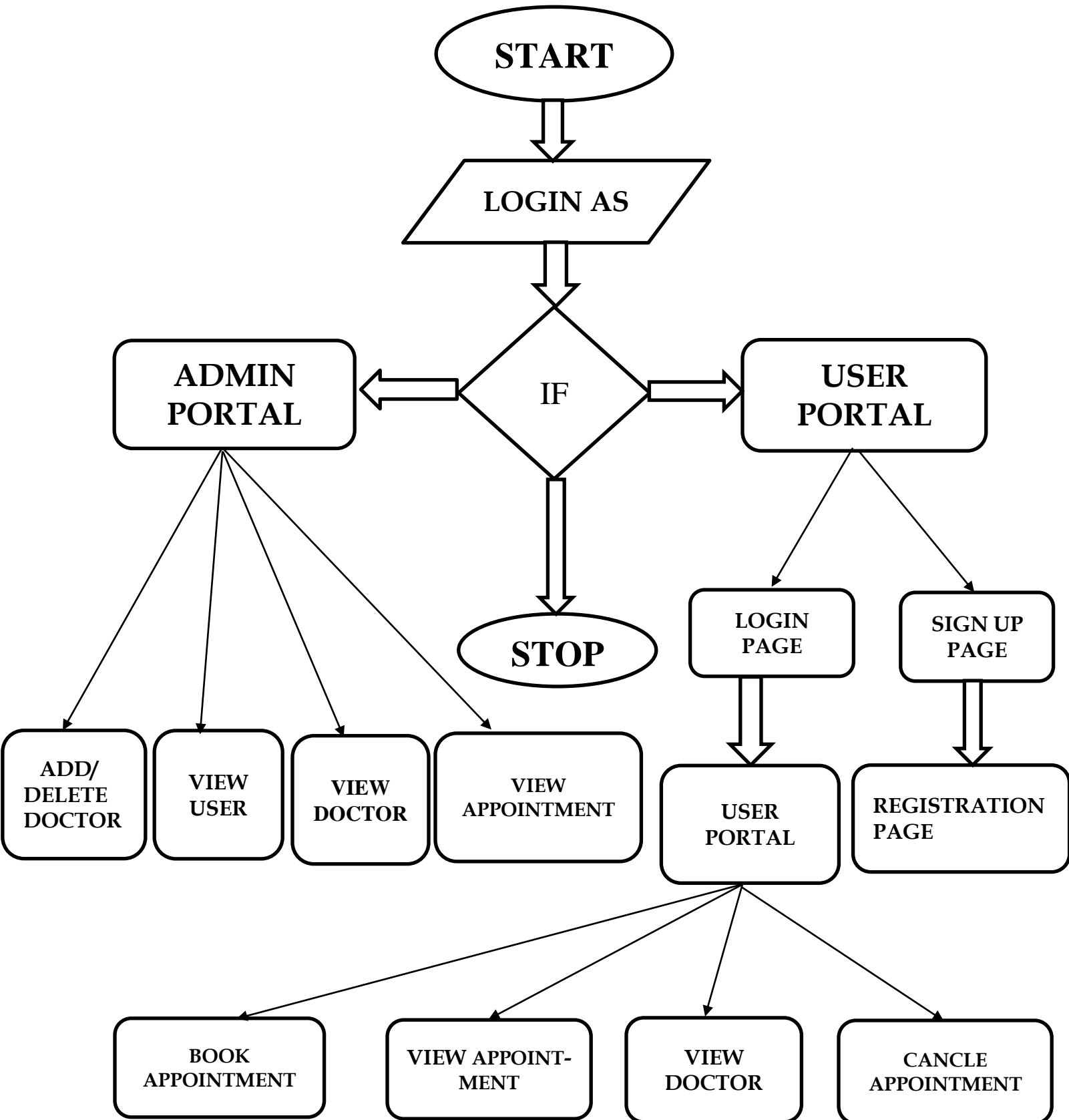
ABSTRACT:

The purpose of Hospital Appointment Booking System is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Hospital Appointment Booking System is an application which sets up online communication between a doctor and a patient. This application system is helpful to patients to book any available time slot with any available doctor as per their convenience. Similarly, this application is beneficial to doctors by providing the following functionalities: confirming appointments, viewing patient details, etc. Basically the project describes how to manage for good performance and better services for the clients.

BLOCK DIAGRAM:



FLOWCHART:



PROJECT DESCRIPTION:

This project Hospital Appointment Booking System has been developed in JAVA and MySQL database. The project Hospital Appointment Booking System is to provides patients an easy way of booking a doctor's appointment through our application. This is a system that overcomes the issue of managing and booking appointments according to patient's choice or requirements. The main purpose of this project Hospital Appointment System is to manage the details of Patient, Doctors, and Treatments. It manages all the information about Patient, Treatments, and Patient.

DETAILS OF HARDWARE AND SOFTWARE:

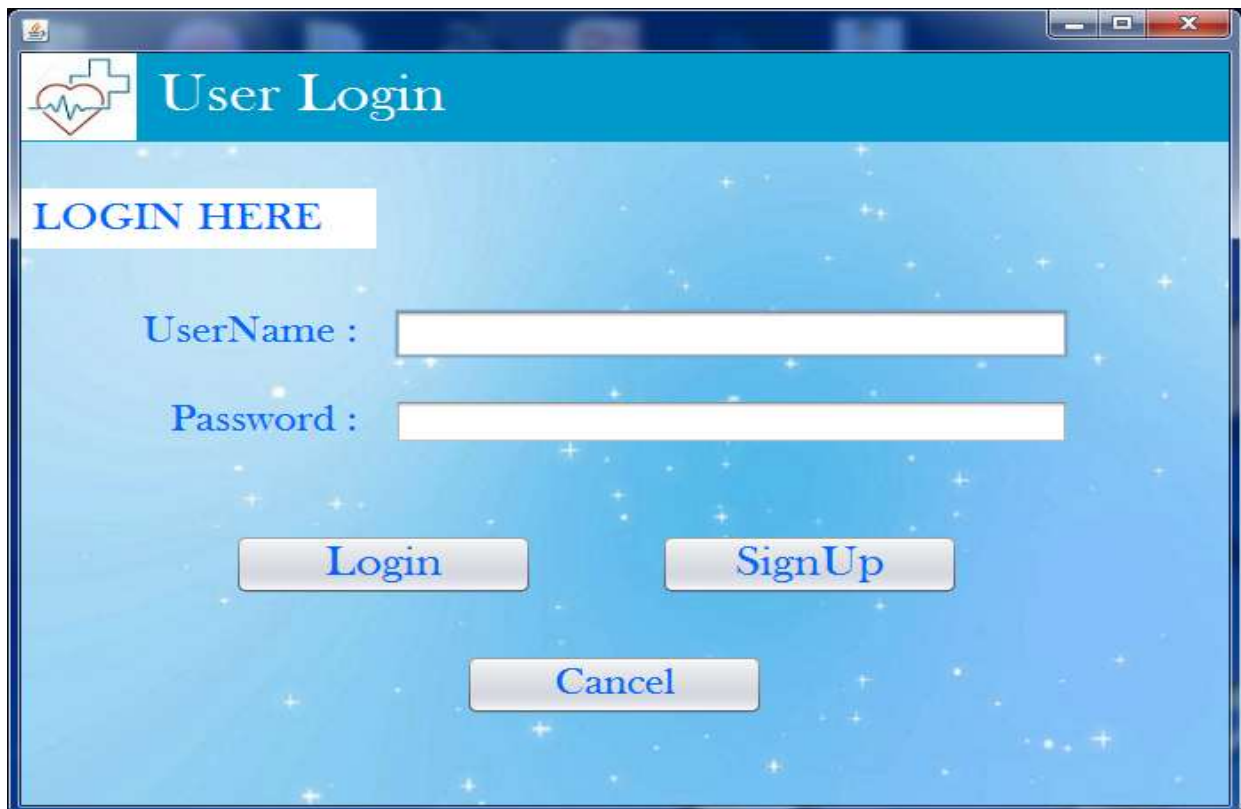
Hardware requirements:-

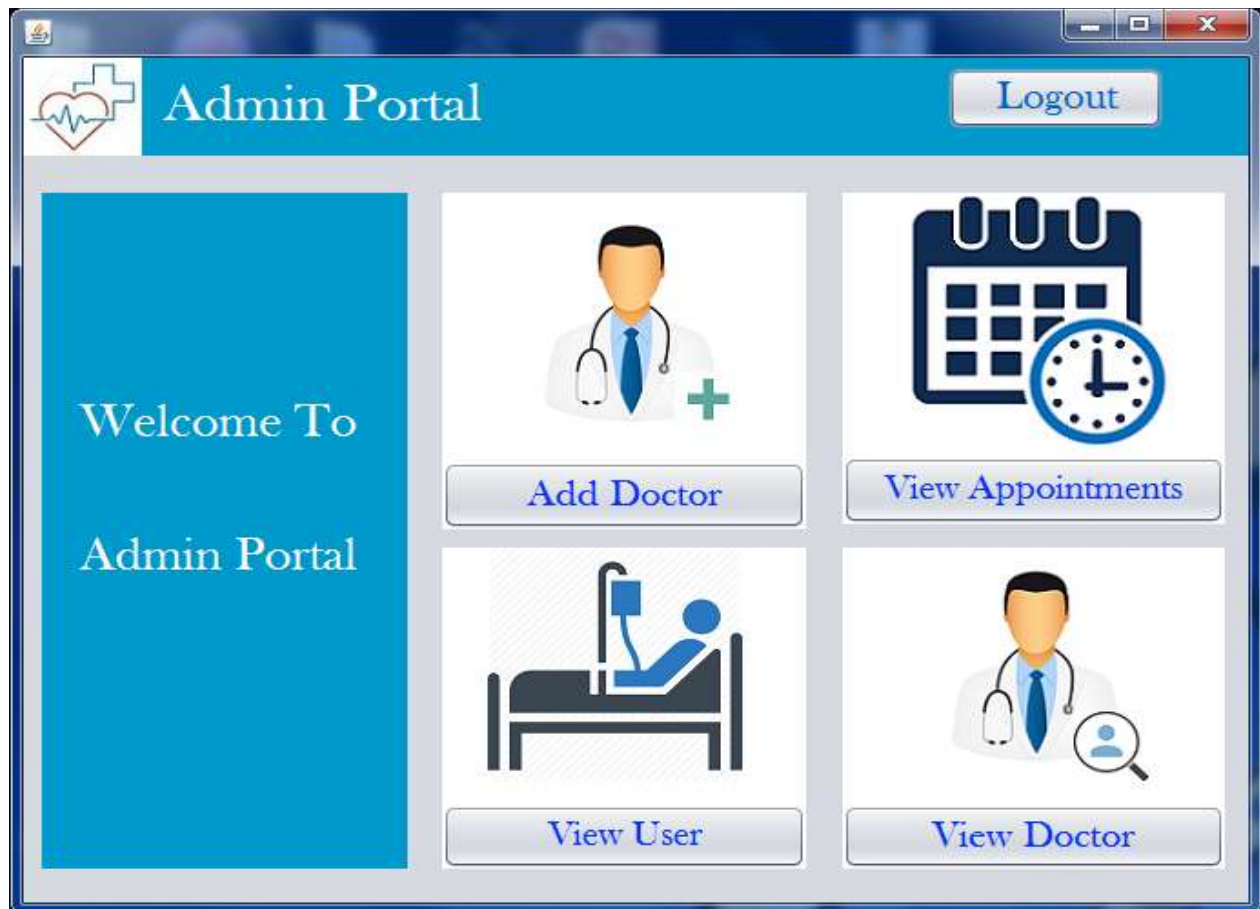
Number	Description
1.RAM	512 or above
2.Hard Disk	40GB or above

Software requirements:-

Number	Description
1.Operating System	Windows 7
2.Front End	Java Netbeans IDE 8.2
3.Back End	MySQL 5.5

SCREENSHOT:





The Doctor's Detail interface has a blue header with a heart and cross icon, the title "Doctor's Detail", and a "Back" button. Below the header is a table with 7 columns: DoctorID, Fname, Lname, Address, PhoneNo, EmailID, and Category. The table contains 8 rows of doctor data.

DoctorID	Fname	Lname	Address	PhoneNo	EmailID	Category
1001	Smita	Joshi	City Hospi...	9635685245	smita@gma...	Dentist
1002	Sanjeev	Gupta	Medicare ...	7898526345	sanjeevg@g...	Cardiologist
1003	Rahul	Desai	Medicare ...	7895623456	rdesai@gm...	Dermatolo...
1004	mukesh	sharma	City Hospi...	984231568	mukeshs@g...	Bone speci...
1005	Rajeev	Gupta	Thumba H...	7854692356	rajeevg@g...	Neurologist
1006	Perna	Das	Thumba H...	785412365	prernal@g...	Psychologist
1007	Pravin	Kumar	Sai Baba ...	7569842315	pravink@g...	Allergist
1008	Dhruv	Mehta	Aashirwad ...	5621458963	druv12@g...	Pathologist

Book Appointment Back

New Booking

Appointment ID :

UserName :

Category :

Address :

Doctor Name :

Date :

Time Slots :

Book My Appointment

CODE:

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    Connection con =null;
    Statement st =null;
    ResultSet rs =null;
    String a=jTextField1.getText();
    String b=jPasswordField1.getText();
    try{
        con=(Connection) DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital12", "root", "parul");
        st=con.createStatement();
        String q;
        q = "Select * from user_register where username='"+a+"' and password='"+b+"'";
        rs=st.executeQuery(q);
        if(rs.next())
        {
            new UserPortal().setVisible(true);
        }
        else
        {
            JOptionPane.showMessageDialog(null,"Wrong Password or UserName");
        }
    }
    catch(HeadlessException | SQLException e)
    {
        JOptionPane.showMessageDialog(null,"ERROR!!!");
    }
}
```

This is the code for User Login Page.

```

private void disptable() throws SQLException
{
    Connection con =null;
    Statement st =null;
    ResultSet rs =null;
    try
    {
        con=(Connection) DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital12", "root", "parul");
        String sql = "Select * from add_doctor ";
        PreparedStatement pstmt= con.prepareStatement(sql);
        rs = pstmt.executeQuery();

        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(null,e);
    }
}

```

This is the code for View Doctor Table.

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    String s1=jTextField1.getText();
    try
    {
        con=(com.mysql.jdbc.Connection) DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital12", "root", "parul");
        st=con.createStatement();
        String m ="select * from appointment where UserName='"+s1+"'";
        rs=st.executeQuery(m);
        if(rs.next())
        {
            jTable1.setModel(DbUtils.resultSetToTableModel(rs));
            disptable();
        }
        else
        {
            JOptionPane.showMessageDialog(null,"Incorrect UserName");
        }
    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(null, e);
    }
}

```

This is the code for Database Connectivity.

```

mysql> use hospital12;
Database changed
mysql> show tables;
+-----+
| Tables_in_hospital12 |
+-----+
| add_doctor            |
| admin_login           |
| appointment           |
| user_register         |
+-----+
4 rows in set (0.00 sec)

mysql> select * from admin_login;
+-----+-----+
| username | password |
+-----+-----+
| parul    | parul1234 |
+-----+-----+
1 row in set (0.00 sec)

mysql> select * from user_register;
+-----+-----+-----+-----+-----+-----+
| fname    | lname    | username | password | birthdate | address |
+-----+-----+-----+-----+-----+-----+
| simran   | khamkar  | simran1  | simran12 | 1999-07-22 | C/204, Ostwal Ornat |
| e, Jesal Park, Mira Road (East) | 963258741 |
| siddhi   | khadye   | siddhi1  | siddhi123 | 1999-04-13 | B/106, New Piyush A |
| partment, Kandivali (East) | 123456789 |
| Karthika | Nair     | karthika1 | karthika123 | 1999-05-15 | D/207, Ostwal Ornat |
| e, S.U. Road, Dadar (West) | 756894125 |
| Aditi    | Bees     | aditi1   | aditi123 | 1999-05-25 | C/506, Natraj Appa |
| rtment, Navghar Road, Dahisar (Esat) | 236589456 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

This is the code for MySQL database.

CONCLUSION:

Thus, the various advantages of implementing a Hospital Appointment Booking System helps us to easily provide accessible records that are securely protected through the lock and key mechanism that provides access to the pertaining to the hierarchical order of user.

The project Hospital Appointment Booking System is for booking an appointment in a Hospital. The software takes care of all the requirements of a patient for booking an appointment in a hospital and is capable to provide easy and effective storage of information related to patient, appointment booking, doctor, etc. It generates Doctor's details, Appointment booking history of a patient, Patient's details, etc.