



A Project

Report On

Hospital Management System

By

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B.E (CS)

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Introduction:

This Project **Hospital Management System** has been developed on **Java, JSP and MySQL**. The main purpose for developing this project is to deal with the collection of patient's information like add patient, update patient, delete patient, search patient, view patient diagnosis, etc. Traditionally, it was done manually. The main function of the system is register and store patient details and doctor details and retrieve these details as and when required, and also to manipulate these details meaningfully. The Hospital Management System can be entered using a username and password. It is accessible by Admin and Doctor. Only they can add data into password. The data is well protected for personal use and makes the data processing very fast.

Software Requirements:

Front end: Java/J2EE technologies (Servlet, JSP), HTML,
 CSS, Bootstrap, JDBC.

Back end: MySQL.

Server: ApacheTomcatv8.0V

IDE: Eclipse IDE for Java EE Developers

Browser: Best result on Google Chrome

Operating System: Window 10

Data Dictionary:

DataBase:

```
create database hospital;
```

```
use hospital;
```

Admin:

Table name: User

```
create table user(
```

```
    user_id int (11) NOT NULL AUTO_INCREMENT, name
```

```
    varchar(100),
```

```
    email varchar(100),
```

```
    address varchar(400),
```

```
    phone varchar(100),
```

```
    password varchar(100),
```

```
    primary key(user_id ));
```

Doctor:

Table name: doctor

```
create table doctor(doctor_id int(11),
```

```
    doc_name varchar(100),
```

```
    email varchar(100),
```

```
    password varchar(100),
```

```
    address varchar(400),
```

```
    phone varchar(100),
```

```
    department varchar(100));
```

```
    primary key(user_id ));
```

Patient:

Table name: patient

```
create table patient(patient_id int(11),
patient_name varchar(100),
email varchar(100),
password varchar(100),
address varchar(400),
phone varchar(100),
sex varchar(45),
blood_group varchar(45),
primary key(patient_id ));
```

Appointment:

Table name: appointment

```
create table appointment(apid int(11),
name varchar(50),
email varchar(130),
contact varchar(130),
age varchar(11),
day varchar(130),
speciality varchar(130),
description varchar(200),
primary key(apid ));
```

Nurse:

Table name: nurse

```
create table nurse(nurse_id int(11),  
name varchar(45),  
email varchar(100),  
password varchar(100),  
address varchar(400),  
phone varchar(100),  
primary key(nurse_id));
```

Department:

Table name: department

```
create table department(dept_id int(11),  
dept_name varchar(100),  
dept_description varchar(400),  
primary key(dept_id));
```

Feedback:

Table name: feedback

```
create table feedback  
(name varchar(100),  
email varchar(100),  
contact varchar(200)  
suggestion varchar(400));
```

Modules and Description Of Hospital Management System

Project:

- **Description:**

“Hospital Management System” is a website which manages and controls the working system in hospital. It mainly focuses on adding, editing and deleting patients, doctors, nurse and department Information.

- **Main Modules:**

- 1) Admin Login
- 2) Doctor Login
- 3) Patient Login

Before Footer there is a section which contains description about Hospital Management System.

Home Page

1. Home:

- In sidehome modules, some sub modules are available
 - 1. Admin
 - 2. Doctor
 - 3. Patient

Home Page Image



Hospital Management System

This is a hospital management user interface for managing, monitoring and controlling the system in a Hospital. This application is developed using java, which mainly focuses on basic operations in a hospital like adding new patient information, and updating new information, assigning the doctor for patient. It features a familiar and well thought-out, an attractive online user interface, combined with strong management capabilities. The backend of the project is designed using MySQL, Java and front end using HTML, CSS, and Bootstrap.

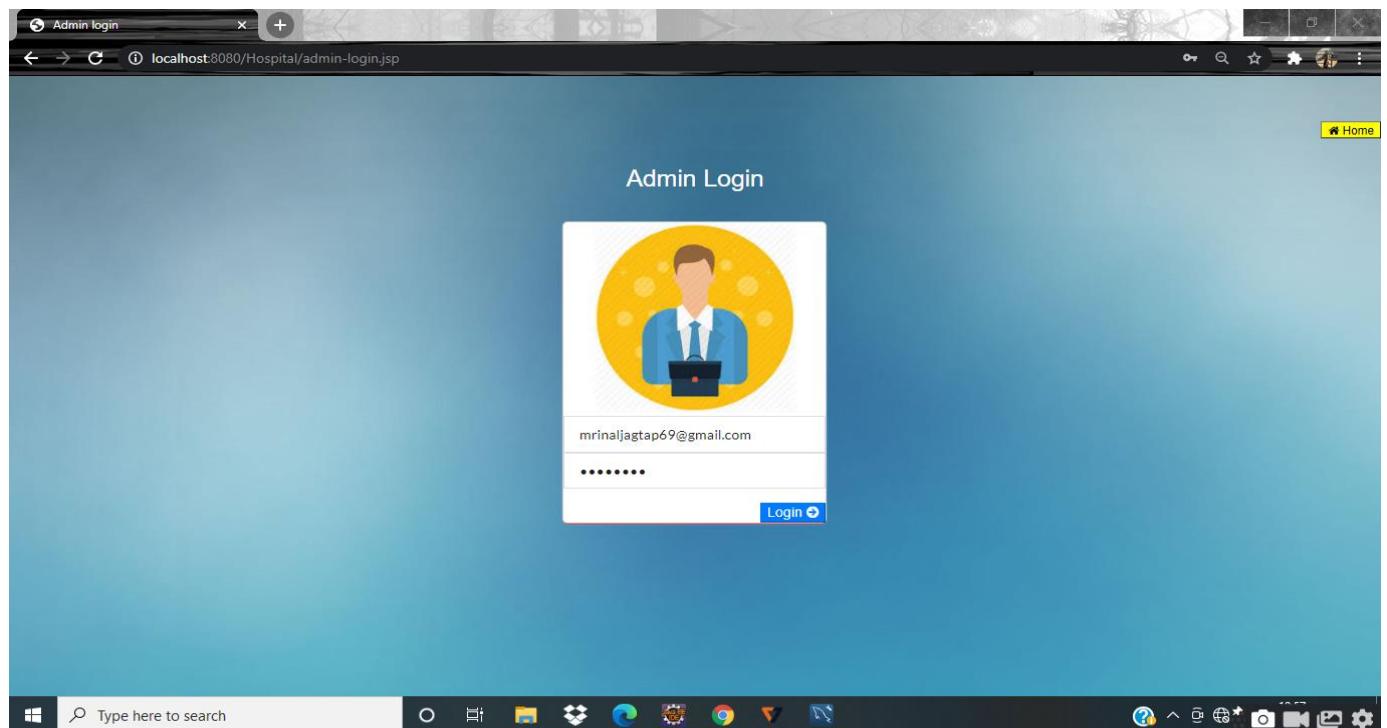
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➤ Admin Module

- Admin can manage the Doctor, Patient and Department data.
- Admin can Add/Update / Delete the Patients.
- Admin can Add/Update Doctor data.
- Admin can Add/update the Department and Nurse data.
- Admin can view feedback of users.

- Admin can book/delete the appointment for patients.
- To access the above features, firstly Admin has to Login.
-

Admin Login Page



Admin Dashboard

The screenshot shows the 'Hospital Mangement System' dashboard. On the left sidebar, there are links for 'Department', 'Doctors', 'Patients', 'Nurse', 'View Feedback', and 'Profile'. The main content area is titled 'Manage Department' and contains a table titled 'Department List'. The table has columns for 'Department ID', 'Department Name', 'Department Description', and 'Options'. The 'Options' column includes blue edit and red delete buttons. The table data is as follows:

Department ID	Department Name	Department Description	Options
5	Nerology	brain,chest nerology solution	Edit Delete
6	Cardiology	Disorders of Heart	Edit Delete
7	Cancer	blood cancer,stamoch cancer,bone cancer	Edit Delete
9	Pluminiology	Lungs,Respiratory system	Edit Delete
11	General Physician	All types of disease	Edit Delete
12	Bone	Osteoporosis is a debilitating disease in which bones become fragile and are more likely to break	Edit Delete
14	Radiology	different types X-ray report	Edit Delete
15	Gynaecology	Related to pregnancy and child birth	Edit Delete

Before Updating Department

Hospital Mangement System

Mrinal Jagtap

Dashboard

Manage Department

Department List Add Department

Department ID	Department Name	Department Description	Options
5	Cardiology	brain,chest nerology solution	<input type="button"/> Delete
6	Cardiology	Disorders of Heart	<input type="button"/> Delete
7	Cancer	blood cancer,stamoch cancer,bone cancer	<input type="button"/> Delete
9	Pluminology	Lungs,Respiratory system	<input type="button"/> Delete
11	General Physician	All types of disease	<input type="button"/> Delete
12	Bone	Osteoporosis is a debilitating disease in which bones become fragile and are more likely to break	<input type="button"/> Delete
14	Radiology	different types X-ray report	<input type="button"/> Delete
15	Gynaecology	Related to pregnancy and child birth	<input type="button"/> Delete

scencapture-loc...png Show all

Type here to search

Edit Department

Hospital Management System

localhost:8085/Hospital/editDepartment.jsp?id=5

Sanjeevani Hospital

Mrinal Jagtap

Dashboard

Edit Department Infomation

Click Here To Edit Department Infomation

Department Name	<input type="text" value="Nerology"/>
Department Description	<input type="text" value="brain,chest nerology solution"/>
<input type="button" value="Update"/>	

Type here to search

After Updating Department

The screenshot shows the 'Manage Department' page in the Hospital Management System. A red box highlights the 'Department Name' column for the first row, which contains the value 'Neurology'. The table also includes columns for 'Department ID', 'Department Description', and 'Options' (with 'Delete' buttons). The 'Department List' tab is selected.

Department ID	Department Name	Department Description	Options
5	Neurology	brain,chest nerology solution	<button>Delete</button>
6	Cardiology	Disorders of Heart	<button>Delete</button>
7	Cancer	blood cancer,stamoch cancer,bone cancer	<button>Delete</button>
9	Pluminology	Lungs.Respiratory system	<button>Delete</button>

Before Updating Doctor

The screenshot shows the 'Manage Doctor' page in the Sanjeevani Hospital Management System. A red box highlights the 'Phone No.' column for the second row, which contains the value '9768017210'. The table includes columns for 'Doctor ID', 'Doctor Name', 'Department', and 'Options' (with 'Delete' buttons). The 'Doctor List' tab is selected.

Doctor ID	Doctor Name	Department	Phone No.	Options
1	Pritam Subramaniam	Neurology	9976856789	<button>Delete</button>
6	Vikas Jha	Cardiology	7875796412	<button>Delete</button>
7	Rahul Nair	Orthopedic	9768017210	<button>Delete</button>
8	Kaustubh Mane	General Physician	9856321478	<button>Delete</button>
9	Girish Chauhan	orthopaedic	9420949414	<button>Delete</button>
10	Kalyani Gaikwad	Gynaecologist	7475767271	<button>Delete</button>

Update Doctor

Hospital Management System × localhost:8080/Hospital/UpdateDoctorProfile.jsp

Sanjeevani Hospital

Rahul Nair

Dashboard

My Appointment

Update Profile

Edit Doctor Profile

Click Here to Edit Doctor Profile

Name	Rahul Nair
Email	nairrahul@gmail.com
Password
Address	Malad, Mumbai
Phone	8845746525
Department	Orthopedic

Update Doctor Info

After Updating Doctor

Hospital Management System × how to delete blank page in betw... × localhost:8080/Hospital/doctor.jsp

Sanjeevani Hospital

Mrinal Jagtap

Dashboard

Department

Doctors

Patients

Nurse

View Feedback

Profile

Manage Doctor

Doctor List Add Doctor

Doctor ID	Doctor Name	Department	Phone No.	Options
1	Pritam Subramaniam	Neurology	9976856789	Delete
6	Vikas Jha	Cardiology	7875796412	Delete
7	Rahul Nair	Orthopedic	8845746525	Delete
8	Kaustubh Mane	General Physician	9856321478	Delete
9	Girish Chauhan	orthopaedic	9420949414	Delete
10	Kalyani Gaikwad	Gynaecologist	7475767271	Delete

screencapture-loc...png ^ Show all

Adding new Patient

The screenshot shows a web browser window for the 'Hospital Management System' on 'localhost:8080/Hospital/patients.jsp'. The title bar says 'Sanjeevani Hospital'. On the left, a sidebar titled 'Dashboard' has links for Department, Doctors, Patients, Nurse, View Feedback, and Profile. The main content area is titled 'Manage Patient' with tabs for 'Patient List' and 'Add Patient'. The 'Add Patient' tab is active, showing a form with fields: Name (Arti Jadhav), Email (jadhavarti@gmail.com), Password (*****), Address (Bhuleshwar,Mumbai), Phone (9897969090), Sex (Female), and Blood Group (O-). A blue 'Add Patient' button is at the bottom. The status bar at the bottom of the browser shows 'screencapture-loc...png'.

Successfully Added Patient

The screenshot shows the same browser window after adding the patient. The 'Patient List' tab is now active, displaying a table of patients. A vertical arrow points from the 'Successfully Added Patient' text in the previous screenshot down to the newly added row in the table. The table has columns: Id, Patient Name, Sex, Blood Grp, and Options. The rows are:

Id	Patient Name	Sex	Blood Grp	Options
1	Rahul sawant	Male	A+	
2	Surbhi Shukla	Female	AB-	
3	Ashish Yadav	Male	B+	
5	Rakesh Solanki	Male	B-	
6	Preeti Dube	Male	A+	
7	Vaidehi Shinde	Female	AB-	
12	Arti Jadhav	Female	O-	

The status bar at the bottom of the browser shows 'screencapture-loc...png'.

Before Deleting Patient

The screenshot shows a web browser window for the "Hospital Management System" at localhost:8080/Hospital/patients.jsp. The page title is "Sanjeevani Hospital". On the left, a sidebar titled "Dashboard" lists "Department", "Doctors", "Patients", "Nurse", "View Feedback", and "Profile". The main content area is titled "Manage Patient" with tabs for "Patient List" and "Add Patient". A table displays patient information:

Id	Patient Name	Sex	Blood Grp	Options
1	Rahul sawant	Male	A+	<input type="button"/> Delete
2	Surbhi Shukla	Female	AB-	<input type="button"/> Delete
3	Ashish Yadav	Male	B+	<input type="button"/> Delete
5	Rakesh Solanki	Male	B-	<input type="button"/> Delete
6	Preeti Dube	Male	A+	<input type="button"/> Delete
7	Vaidehi Shinde	Female	AB-	<input type="button"/> Delete
12	Arti Jadhav	Female	O-	<input type="button"/> Delete

After Deleting Patient

The screenshot shows the same web browser window after a patient has been deleted. The patient with Id 12, Arti Jadhav, is no longer present in the patient list table.

Id	Patient Name	Sex	Blood Grp	Options
1	Rahul sawant	Male	A+	<input type="button"/> Delete
2	Surbhi Shukla	Female	AB-	<input type="button"/> Delete
3	Ashish Yadav	Male	B+	<input type="button"/> Delete
5	Rakesh Solanki	Male	B-	<input type="button"/> Delete
6	Preeti Dube	Male	A+	<input type="button"/> Delete
7	Vaidehi Shinde	Female	AB-	<input type="button"/> Delete

Add Nurse

The screenshot shows a web application for a hospital management system. The title bar says "Hospital Management System" and the URL is "localhost:8080/Hospital/nurse.jsp". The page has a blue header with the text "Sanjeevani Hospital" and a user dropdown "Mrinal Jagtap". On the left, there's a sidebar with links: "Dashboard", "Department", "Doctors", "Patients", "Nurse", "View Feedback", and "Profile". The main content area is titled "Manage Nurse" and has two tabs: "Nurse List" (selected) and "Add Nurse". The "Add Nurse" tab contains fields for Name (Priyanka Patil), Email (priyankap@gmail.com), Password (*****), Address (Churchgate,Mumbai), and Phone (9878909890). A blue "Add Nurse" button is at the bottom. The background of the main area shows a medical professional in blue scrubs.

Nurse Data Added Successfully

The screenshot shows the same web application after adding a new nurse. The title bar and URL are the same. The sidebar and header are identical to the previous screenshot. The main content area is titled "Manage Nurse" and shows a table of nurses. The table has columns: Nurse ID, Nurse Name, Email, Address, Phone No., and Options. There are 7 rows of data, with the last row (Nurse ID 7) highlighted by a red border. The data for Nurse ID 7 is: Nurse Name - Priyanka Patil, Email - priyankap@gmail.com, Address - Churchgate,Mumbai, Phone No. - 9878909890. The "Options" column for this row contains a blue edit icon and a red delete icon.

Nurse ID	Nurse Name	Email	Address	Phone No.	Options
1	Pranali Desai	pranalidesai@yahoo.com	Kandivali	7276763516	
2	Arpita Singh	singharpita12@gmail.com	Dadar,Mumbai	8855441199	
3	Payal Rathi	payalr13@gmail.com	Vasai,Palghar	7475767271	
4	Neha Gupta	nehagupta11@yahoo.com	Marine Lines,Mumbai	8812475685	
5	Priya Kadam	kpriya@gmail.com	Santacruz,Mumbai	8387741568	
6	Pratibha Mhatre	pratibhamhatre@yahoo.com	Bandra,Mumbai	8874563515	
7	Priyanka Patil	priyankap@gmail.com	Churchgate,Mumbai	9878909890	

View User Feedback

A screenshot of a web browser window titled "Hospital Management System" on "localhost:8085/Hospital/viewFeedback.jsp". The page header "Sanjeevani Hospital" and a user profile "Mrinal Jagtap" are visible. On the left, a sidebar titled "Dashboard" lists "Doctors", "Patients", "Nurse", "View Feedback", and "Profile". The main content area is titled "Manage Feedback" and contains a table titled "View Feedback" with two rows of data:

Name	Email	Contact	Feedback
Kishor Kadam	kadamk33@gmail.com	9404308673	Awesome website
Surbhi Shukla	surbhi14@gmail.com	9693857246	Very useful website!!

The background features a medical-themed image of hands in gloves.

Update Profile (Admin)

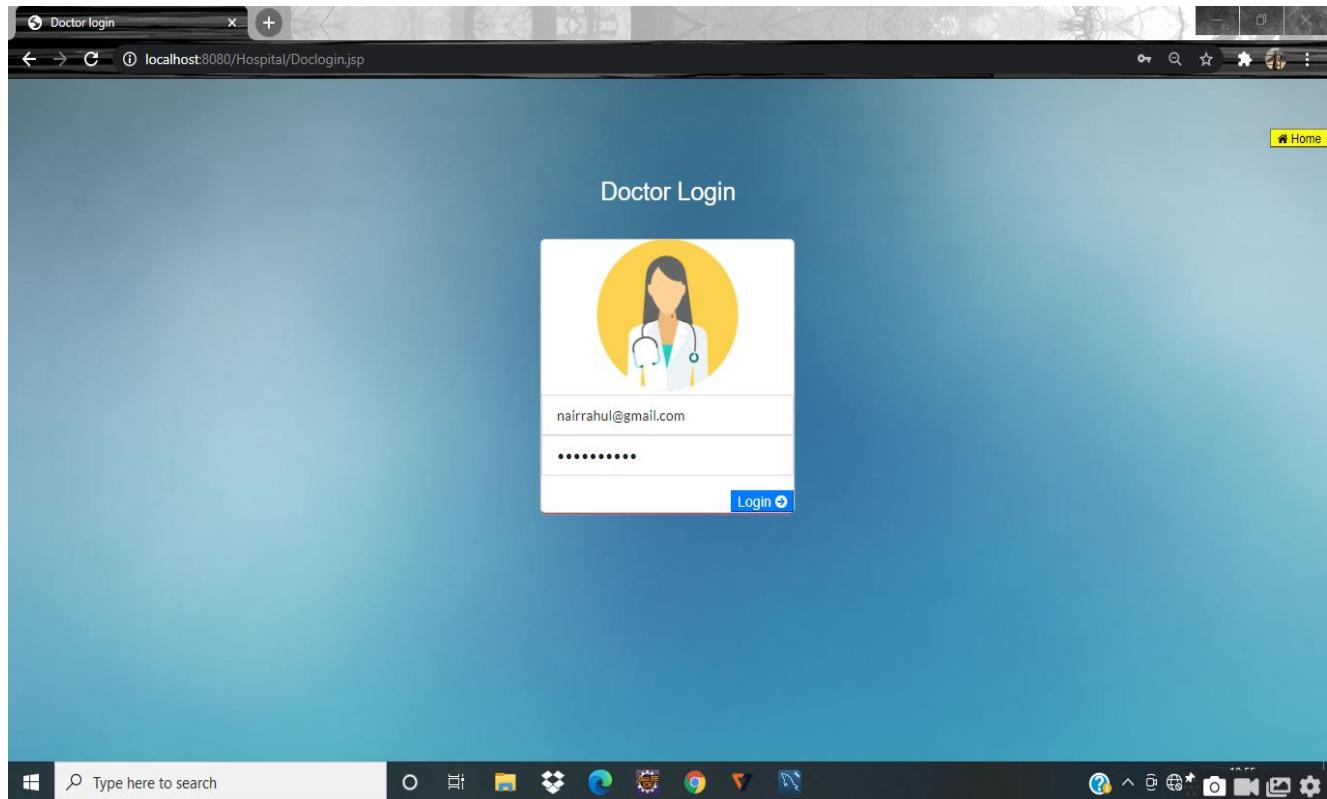
A screenshot of a web browser window titled "Hospital Management System" on "localhost:8080/Hospital/profile.jsp". The page header "Sanjeevani Hospital" and a user profile "Mrinal Jagtap" are visible. The sidebar "Dashboard" includes "Doctors", "Patients", "Nurse", "View Feedback", and "Profile". The main content area is titled "Manage Profile" and shows form fields for Name (Mrinal Jagtap), Email (mrinaljagtap69@gmail.com), Address (Bhuleshwar,Mumbai), and Phone (9867542108). A blue "Update Profile" button is present. Below this is a "Change Password" section with fields for Password (.....), New Password (Enter New Password), and Confirm New Password (Confirm New Password), along with a blue "Update Password" button. The background features a medical-themed image of hands in gloves.

Admin Module has been completed.

➤ Doctor Module

- Doctor can view the appointments allotted.
 - Doctor can update his/her profile.
- To access the above features, firstly Doctor has to Login.

Doctor Login Page



Appointment History

A screenshot of a web browser displaying the 'Hospital Management System' at localhost:8080/Hospital/afterDoctorLogin.jsp. The page title is 'Sanjeevani Hospital'. On the left, a sidebar titled 'Dashboard' includes links for 'My Appointment' and 'Update Profile'. The main content area is titled 'My Appointment' and shows a table with one row of data:

Appointment ID	Name	Email	Contact	Day	Speciality	Description	Id	Action
6	Preeti Dube	preetidube3@gmail.com	986709879	2021-03-31	Orthopedic	Problem related to bones	7	<button>Delete</button>

The background features a medical-themed image of hands in blue gloves performing surgery.

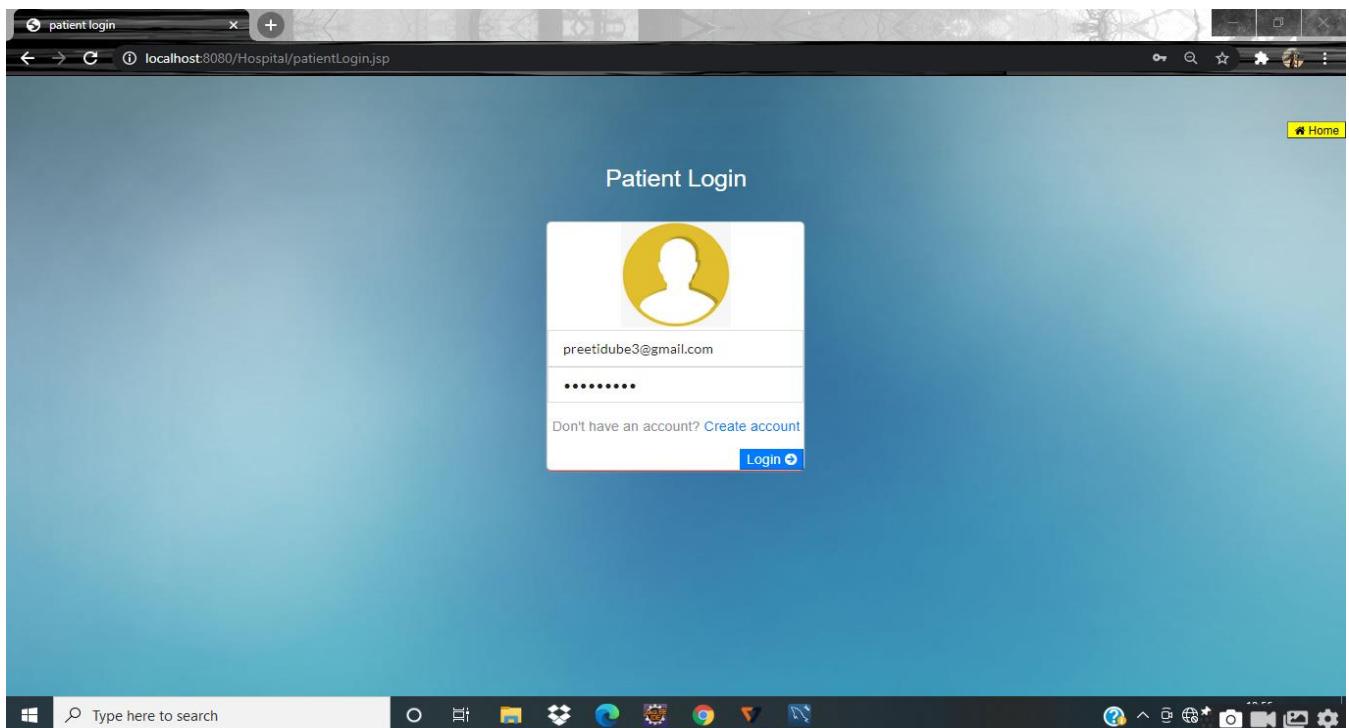
Update Profile (Doctor)

A screenshot of a web browser displaying the 'Hospital Management System' at localhost:8080/Hospital/UpdateDoctorProfile.jsp. The page title is 'Sanjeevani Hospital'. The sidebar on the left shows 'Dashboard' and 'Update Profile' (which is highlighted with a red box). The main content area is titled 'Edit Doctor Profile' and contains a form with fields for Name, Email, Password, Address, Phone, and Department, along with a 'Update Doctor Info' button. The top right corner shows the user 'Rahul Nair' with a dropdown menu containing 'Change Profile' (which is also highlighted with a red box) and 'Logout'.

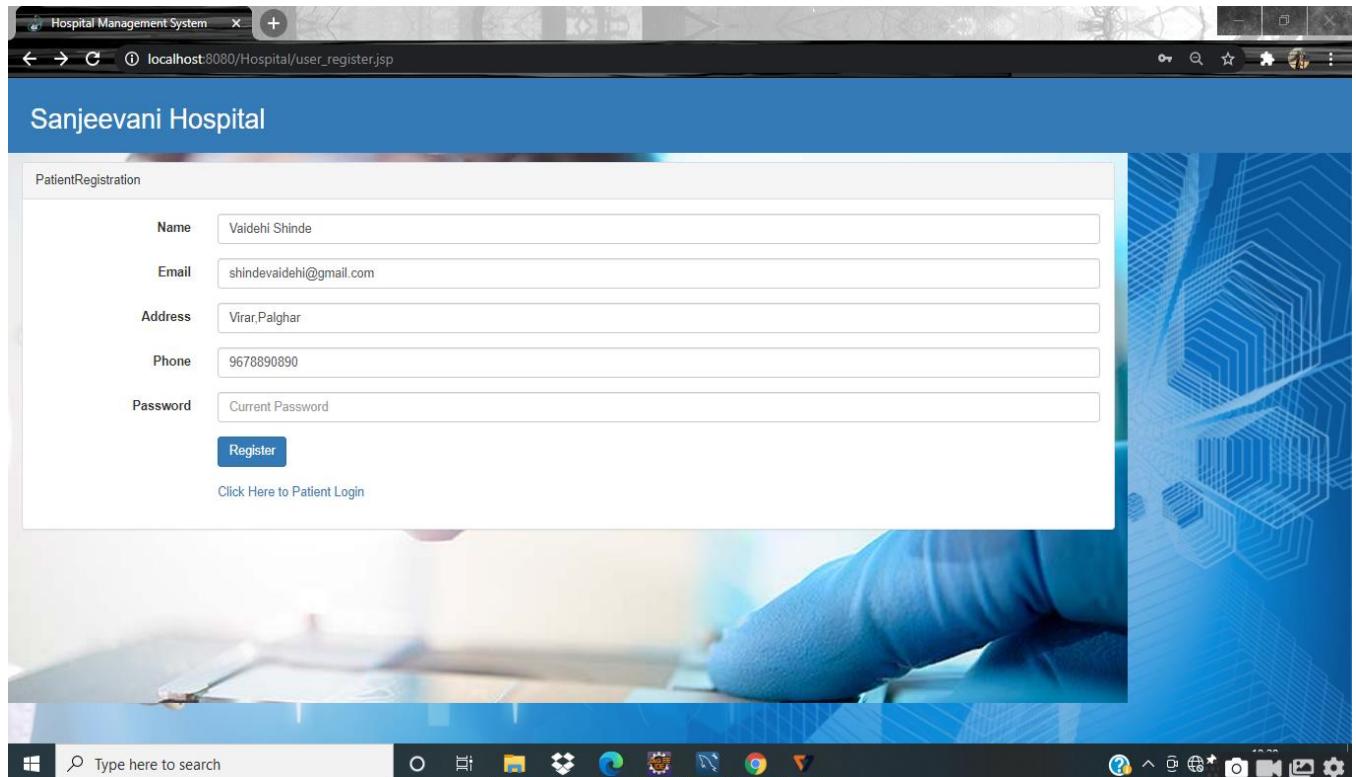
➤ Patient Module

- A new User can register.
 - Patient can book/view an appointment.
 - Patient can update his/her profile.
 - Patient can give the feedback
- To access the above features, firstly Patient has to Login.
-

Patient Login Page



New Registration



Registered Successfully

A screenshot of a web browser showing the 'Manage Patient' section. On the left, there is a sidebar with a 'Dashboard' section and links for 'Department', 'Doctors', 'Patients', 'Nurse', 'View Feedback', and 'Profile'. The main area shows a table titled 'Patient List' with the following data:

Id	Patient Name	Sex	Blood Grp	Options
1	Rahul sawant	Male	A+	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	Surbhi Shukla	Female	AB-	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3	Ashish Yadav	Male	B+	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
5	Rakesh Solanki	Male	B-	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
6	Preeti Dube	Male	A+	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
7	Vaidehi Shinde	Female	AB-	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

A red box highlights the last row (Id 7) of the table, which corresponds to the newly registered patient.

Book Appointment (User)

The screenshot shows a web browser window for the "Hospital Management System" at localhost:8080/Hospital/afterPatientLogin.jsp. The title bar says "Sanjeevani Hospital". The user is logged in as "Preeti Dube". The left sidebar has links for "Dashboard", "Book An Appointment", "Update Profile", "View Appointment", and "Feedback". The main content area is titled "Book An Appointment" and contains fields for Name (Preeti Dube), Email (preetidube3@gmail.com), Contact (986709879), Day (31-03-2021), Speciality (Orthopedic), Description (Problem related to bones), and Doctor Id (7). A "Book Appointment" button is at the bottom.

View Appointment History

The screenshot shows a web browser window for the "Hospital Management System" at localhost:8080/Hospital/viewAppointment.jsp. The title bar says "Sanjeevani Hospital". The user is logged in as "Preeti Dube". The left sidebar has links for "Dashboard", "Book An Appointment", "Update Profile", "View Appointment", and "Feedback". The main content area is titled "View Appointment" and displays a table of appointment history. The table has columns: ApId, Name, Email, Contact, Day, Speciality, Description, Doctor Id, and Action. The rows show appointments for Kishor Kadam, Sagar Kharmale, and Preeti Dube. The row for Preeti Dube is highlighted with a red border. Each row has a "Delete" button in the Action column.

ApId	Name	Email	Contact	Day	Speciality	Description	Doctor Id	Action
4	Kishor Kadam	kadam33@gmail.com	9404308673	2018-06-22	Cardiology	heart problem	6	<button>Delete</button>
5	Sagar Kharmale	sagar@yahoo.com	9404308673	2018-06-23	Nerology	Cerebral Venous Sinus Thrombosis	1	<button>Delete</button>
6	Preeti Dube	preetidube3@gmail.com	986709879	2021-03-31	Orthopedic	Problem related to bones	7	<button>Delete</button>

Update Profile (Patient)

The screenshot shows a web browser window for the "Hospital Management System" at localhost:8080/Hospital/updatePatientProfile.jsp. The title bar says "Update Profile (Patient)". The page header includes "Sanjeevani Hospital" and a user dropdown for "Preeti Dube". A red box highlights the "Change Profile" button in the dropdown menu. On the left sidebar, "Update Profile" is also highlighted with a red box. The main content area is titled "Edit Patient Information" and contains fields for Name (Preeti Dube), Email (preetidube3@gmail.com), Password (redacted), Address (Bandra, Mumbai), Phone (986709879), Sex (Female), and Blood Group (A+). A blue "Update Patient Info" button is at the bottom.

Give Feedback

The screenshot shows a web browser window for the "Hospital Management System" at localhost:8080/Hospital/feedback.jsp. The title bar says "Give Feedback". The page header includes "Sanjeevani Hospital" and a user dropdown for "Preeti Dube". The left sidebar has "Feedback" highlighted with a red box. The main content area is titled "Feedback" and contains fields for Name (Preeti Dube), Email (preetidube3@gmail.com), Contact (986709879), and Suggestion (Very Helpful and User Friendly Website !!!). A blue "Submit Feedback" button is at the bottom.

Feedback Recorded Successfully

A screenshot of a web browser displaying a hospital management system. The title bar shows "Hospital Management System" and the URL "localhost:8080/Hospital/viewFeedback.jsp". The page header includes the hospital name "Sanjeevani Hospital" and a user profile "Mrinal Jagtap". On the left, a sidebar titled "Dashboard" lists "Department", "Doctors", "Patients", "Nurse", "View Feedback", and "Profile". The main content area is titled "Manage Feedback" and contains a table with four columns: Name, Email, Contact, and Feedback. The table has four rows. The fourth row, which corresponds to the feedback from "Preeti Dubé", is highlighted with a red border. The feedback text reads: "Very Helpful and User Friendly Website !!!". A vertical arrow points downwards from the success message at the top to this highlighted row.

Name	Email	Contact	Feedback
Kishor Kadam	kadamk33@gmail.com	9404308673	Awesome website
Surbhi Shukla	surbhi14@gmail.com	9693857246	Very useful website!!
Preeti Dubé	preetidube3@gmail.com	986709879	Very Helpful and User Friendly Website !!!

Patient Module has been completed.

Online

Hospital Management

System

Project has been

completed.
