

**Veer Narmad South Gujarat University,
Surat.**

**Department of Information and
Communication Technology**

**M.Sc. (Information Technology)
5 Year Integrated Course**

Year 2022 – 2023

**B.Sc. (Information Technology)
6th Semester**

PROJECT REPORT

HOSPITAL MANAGEMENT SYSTEM

Guided By

Internal Guide:

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Submitted By

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Re-Accredited B++ 2.86 CGPA by NAAC

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M.Sc.(Information Technology) Programme

Certificate

This is to certify that **Mr. Yug Prakashchandra Parmar** with exam seat number **075** and SPID **2020049871** has worked on his/her project work entitled as **Hospital Management System** at **Cloudzsoft IT Solutions** as a partial fulfillment of requirement of B.Sc. (Information Technology) - 6th Semester, during the academic year 2022-2023.

Date: 17/6/2023

Place: Department of ICT, VNSGU, Surat


Internal Project Guide
BSc(IT) 6th Semester
Department of ICT
VNSGU, Surat


Head of the Department
Department of ICT
VNSGU, Surat

PROJECT OF M. Sc. (I.T.) PROGRAMME	
VEER NARMAD SOUTH GUJARAT UNIVERSITY	
Academic Year :-	
Approved By :-	
EXAMINERS	



TO WHOM IT MAY CONCERN

This is to certify that Mr. Yug Parmar has successfully completed a project within 6 month internship program in the field of Web Development.

During the period of their internship program with us, they had been exposed to different processes and was found diligent hardworking and inquisitive.

We wish them every success in their lives and career



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Acknowledgement

We avail this opportunity to express our heartfelt gratitude to a number of people who extend their full support and co-operation in developing this project and also imparting Knowledge to us in various other domain of software technology.

We would like to take opportunity to thank my college, J.P.Dawer Institute of Information Science and Technology for giving me this tremendous opportunity to work in the real-time project.

We heartily thank my internal project guide; **Dr. Shailesh Chaudhri** was always there to guide me through the development of the project .He is one of the major sources behind the success of the project. We immensely appreciate the tips he has constantly given us during the project. It was an enormous pleasure to work with him.

We thankful to the faculty of the institute for their constant guidance not only during training period but also throughout college career.

Finally we would like to thank our Parents for their support throughout the project. We are special debt to our family & friends for their support blessing and encouragement for us.

-Student's Name

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1. Introduction

Hospital Management System

1.1 Project Definition:

A Hospital Management System (HMS) is a comprehensive software solution designed to automate and manage various administrative, clinical, and financial processes within a hospital or healthcare facility. It is a computerized system that provides a centralized platform for storing, managing, and processing patient information, medical records, appointments, billing, inventory, and other related data.

1.2 Project Profile:

Project Title	Hospital Management System
Project Category	Web based
Duration	2 months
Front End Tools	PHP, JavaScript, J-Query, AJAX
Other Tools	HTML, CSS3
Database	MySQL - phpmyadmin
Guided by	Dr. Shailesh Chaudhri
Submitted by	Parmar Yug P.

2. System Description

2.1 Project Scope:

The system will be used as the application that serves hospitals, clinic, dispensaries or other health institutions. The intention of the system is to increase the number of patients that can be treated and managed properly. If the hospital management system is file based, management of the hospital has to put much effort on securing the files. They can be easily damaged by fire, insects and natural disasters. Also could be misplaced by losing data and information.

2.2 Project Objective:

- 1) Efficient Patient Management:** The system aims to enhance the overall patient experience by providing efficient registration, appointment scheduling, and tracking of patient information. It helps manage patient records, medical history, and treatment plans in a centralized and easily accessible manner.
- 2) Improved Workflow and Operational Efficiency:** An HMS aims to optimize hospital operations by automating processes, reducing manual paperwork, and minimizing errors. It facilitates seamless coordination among various departments, such as registration, pharmacy, laboratory, and billing, improving overall workflow efficiency.

- 3) Enhanced Accuracy and Data Security:** By digitizing patient records and information, an HMS reduces the risk of errors, such as illegible handwriting or misplaced files. It ensures the confidentiality and security of patient data through access controls and encryption, adhering to privacy regulations.
- 4) Effective Resource Utilization:** The system helps hospitals make better use of their resources, including doctors, nurses, equipment, and facilities. It optimizes appointment scheduling, tracks inventory levels, and manages staff shifts, enabling efficient utilization of resources and reducing operational costs.
- 5) Streamlined Billing and Financial Management:** An HMS simplifies the billing and financial processes by automating invoicing, and payment management. It helps ensure accurate and timely billing, reduces billing errors, and provides financial insights and reports for better financial management.
- 6) Integration and Interoperability:** The objective of an HMS is to integrate with other healthcare systems, such as laboratory systems, diagnostic imaging systems, or telemedicine platforms. This integration improves data sharing, facilitates collaboration, and ensures seamless communication between different healthcare providers and systems.

2.3 Project Functionalities:

1. Patient Registration and Management:

- Capture and store patient demographics and contact information.
- Manage patient registration and appointment scheduling.
- Maintain patient medical history and treatment records.

2. Electronic Medical Records (EMR):

- Digitize and store patient medical records.
- Enable easy access to patient records by authorized healthcare providers.
- Facilitate documentation of diagnoses, treatment plans, and medications.

3. Appointment Scheduling:

- Manage appointment scheduling for patients with doctors and specialists.
- Enable rescheduling or cancellation of appointments.

4. Billing and Invoicing:

- Generate and manage patient bills and invoices.
- Track and manage payments, including online payment options.

5. Pharmacy and Inventory Management:

- Add medicines into pharmacy inventory.

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6. Laboratory and Diagnostic Imaging Integration:

- Integrate with laboratory systems and diagnostic imaging equipment.
- Facilitate ordering of tests and receiving and storing of test results.
- Provide physicians with easy access to patient reports and results.

7. Staff Management:

- Manage healthcare staff information, including roles, schedules, and qualifications.

8. Reporting and Analytics:

- Generate reports on patient demographics, medical history, and treatment outcomes.
- Provide analytics on resource utilization, financial performance, and operational efficiency.

2.4 Modules:

The entire project mainly consists of 6 modules which are:

- Admin Module
- Patient Module
- Doctor Module
- Nurse Module
- Pathologist Module
- Accountant Module

1) Admin Module:

- Manage department of hospitals, patient, doctor, nurse, pathologist, accountant account.
- View and manage appointments of doctors and patients
- View prescriptions
- View and Manage lab reports
- Manage bed allocation of patients and watch all the records
- Create and Manage invoice
- Manage front-end of website dynamically

2) Patient Module:

- Book Appointment with specific doctors
- View appointment list and status
- View prescriptions given by doctors
- View Lab reports and vitals
- View own bed allocation history
- View invoice and status
- Pay bill
- Write testimonial
- Manage own profile

3) Doctor Module:

- View and manage appointment with patients
- Create prescription for patient
- View Lab reports of patients
- Manage own profile

4) Nurse Module:

- Allot bed and room for patients
- View allocation records
- Manage own profile

5) Pathologist Module:

- Create Lab reports for patients
- View and manage lab reports and vitals
- Manage own profile

6) Accountant Module:

- Create invoice for payment
- Update invoice
- Manage own profile

3. System Environment

3.1 Hardware Requirements:

Processor	Intel i3
RAM	512 MB or more
Hard Disk	20 GB
Input Device	Keyboard, Mouse
Output Device	Monitor

3.2 Software Requirements:

Operating System	Windows 7/XP or Ubuntu
Front-End	HTML, CSS, Javascript
Server-side Script	PHP
Database	MySQL - phpmyadmin

3.3 Development Tools:

Web Server	XAMPP
Editor	Visual Studio Code
Database	MySQL – phpMyAdmin
Framework	Core PHP

4. Project Planning and Scheduling

4.1 Feasibility Study:

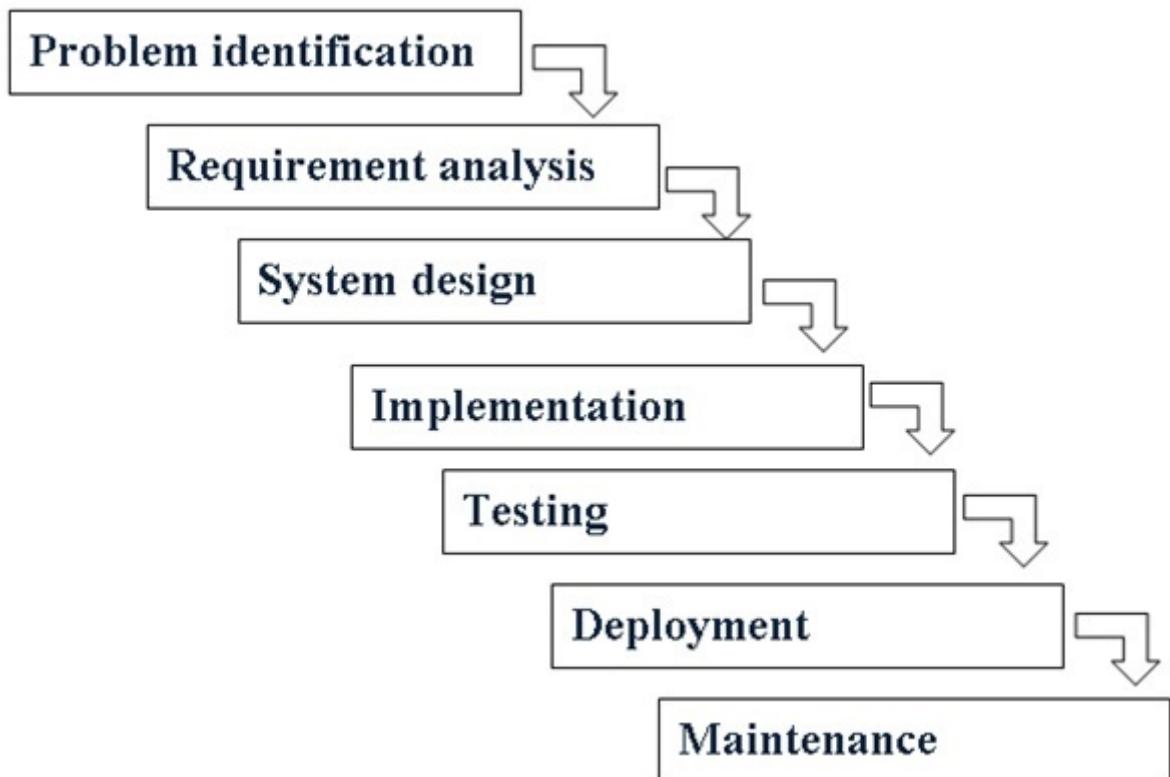
A feasibility study is a preliminary investigation of a proposed system to decide whether the system can run smoothly with the organization, will the organization realize the benefits that are expected and to decide will the organization go for it.

A feasibility study is undertaken to determine the possibility or probability of either improving the existing system or developing a completely new system.

- **Technical feasibility:** Our System does not require any additional resource. There is requiring internet connection.
- **Economic feasibility:** Economic feasibility looks at the financial aspects of the project.

4.2 Software Engineering Model:

Waterfall Model:



5. System Analysis and Modelling

5.1 Software Requirement and Specification:

- Functional Requirements:**

- 1) Admin:**

- Login
- Manage department of hospitals, patient, doctor, nurse, pathologist, accountant account.
- View and manage appointments of doctors and patients
- View prescriptions
- Manage bed allocation of patients and watch all the records
- Manage front-end of website dynamically

- 2) Patient:**

- Registration
- Book Appointment with specific doctors
- View appointment list and status
- View Lab reports and vitals
- Pay bill

- 3) Doctor Module:**

- View and manage appointment with patients
- Create prescription for patient
- View Lab reports of patients

- 4) Nurse Module:**

- Allot bed and room for patients

Hospital Management System

- View allocation records

5) Pathologist Module:

- Create Lab reports for patients
- View and manage lab reports and vitals

6) Accountant Module:

- Create invoice for payment
- Update invoice

• Non-Functional Requirements:

Security: This system need not to communicate with other system, there are very less chances of security issues.

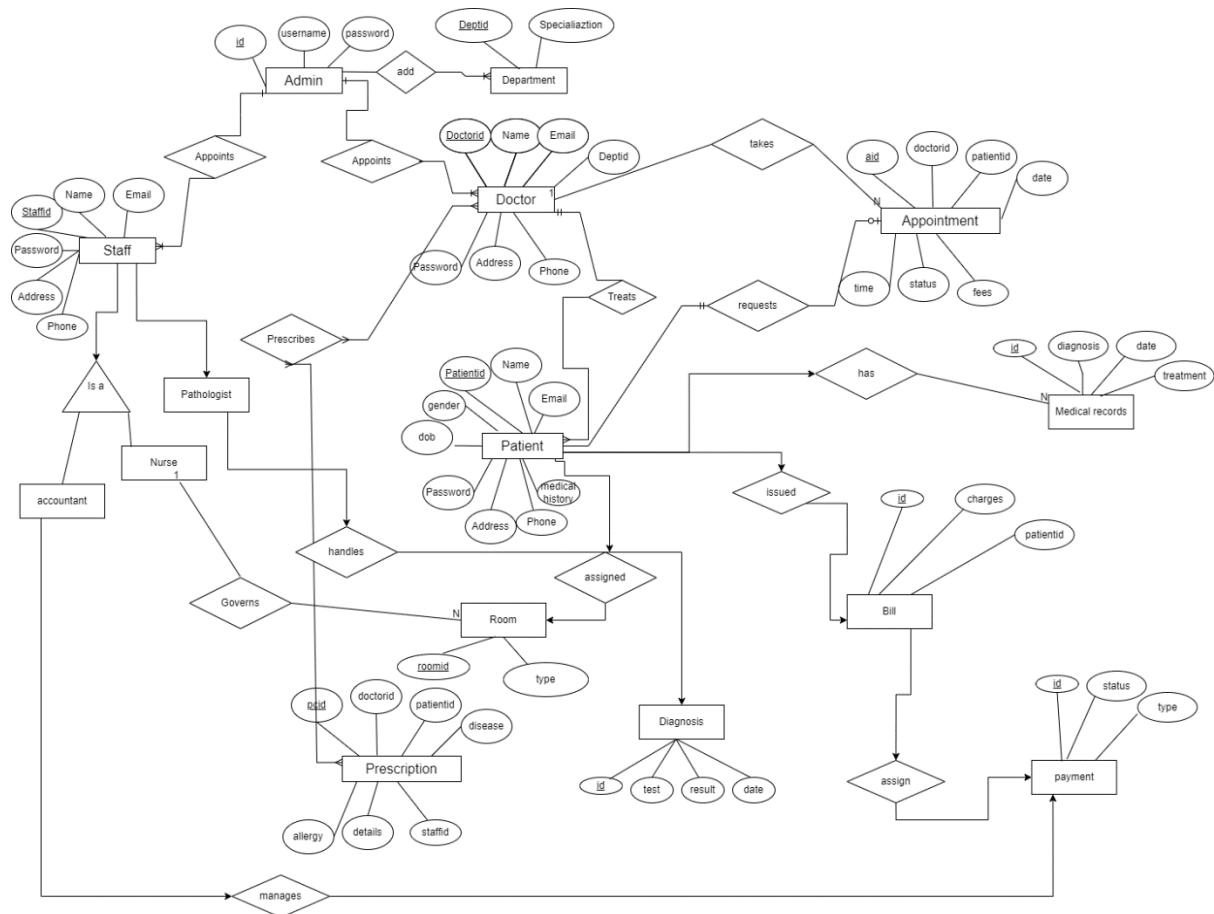
Portability: As the application is to work on multiple platforms, therefore portability is essential and by using PHP it has become portable.

User Friendly Interface: To make this application to reach maximum number of users we need to create a user-friendly interface so that a person with low computer skill can also access it.

Extensibility: The application is extensible in a context of features, GUI and customization for new version upgradation.

Hospital Management System

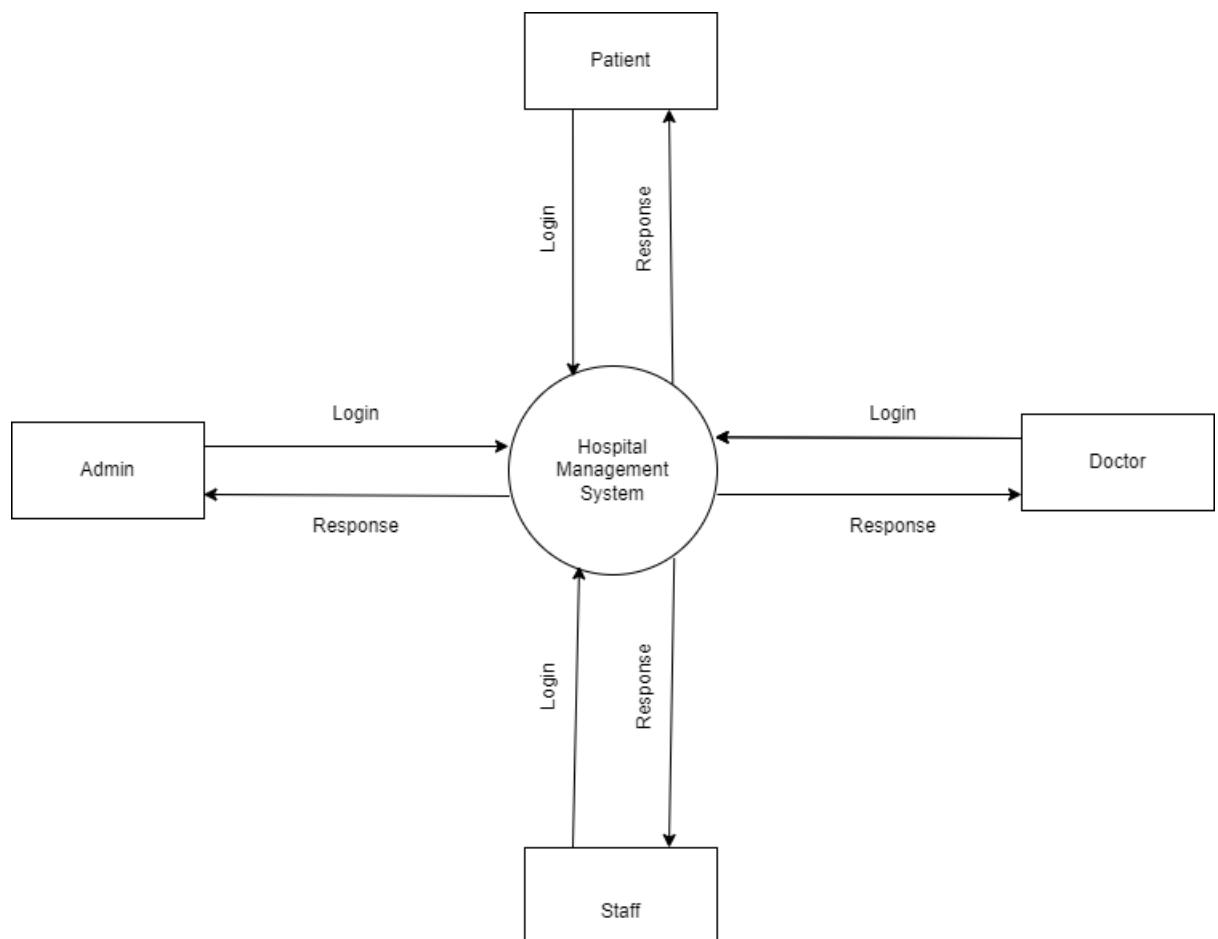
5.2 Entity Relationship Diagram:



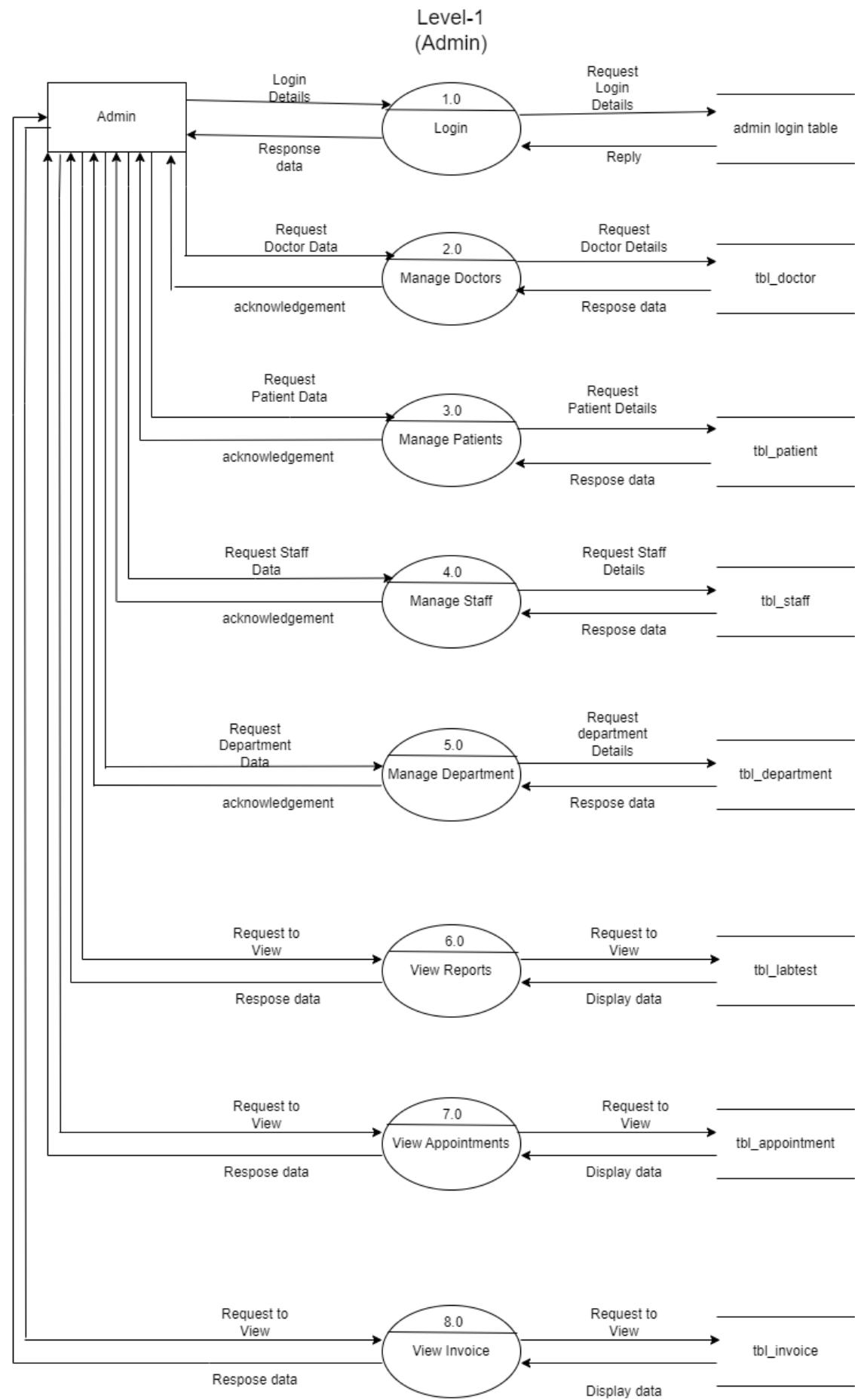
Hospital Management System

5.3 Data-Flow Diagram:

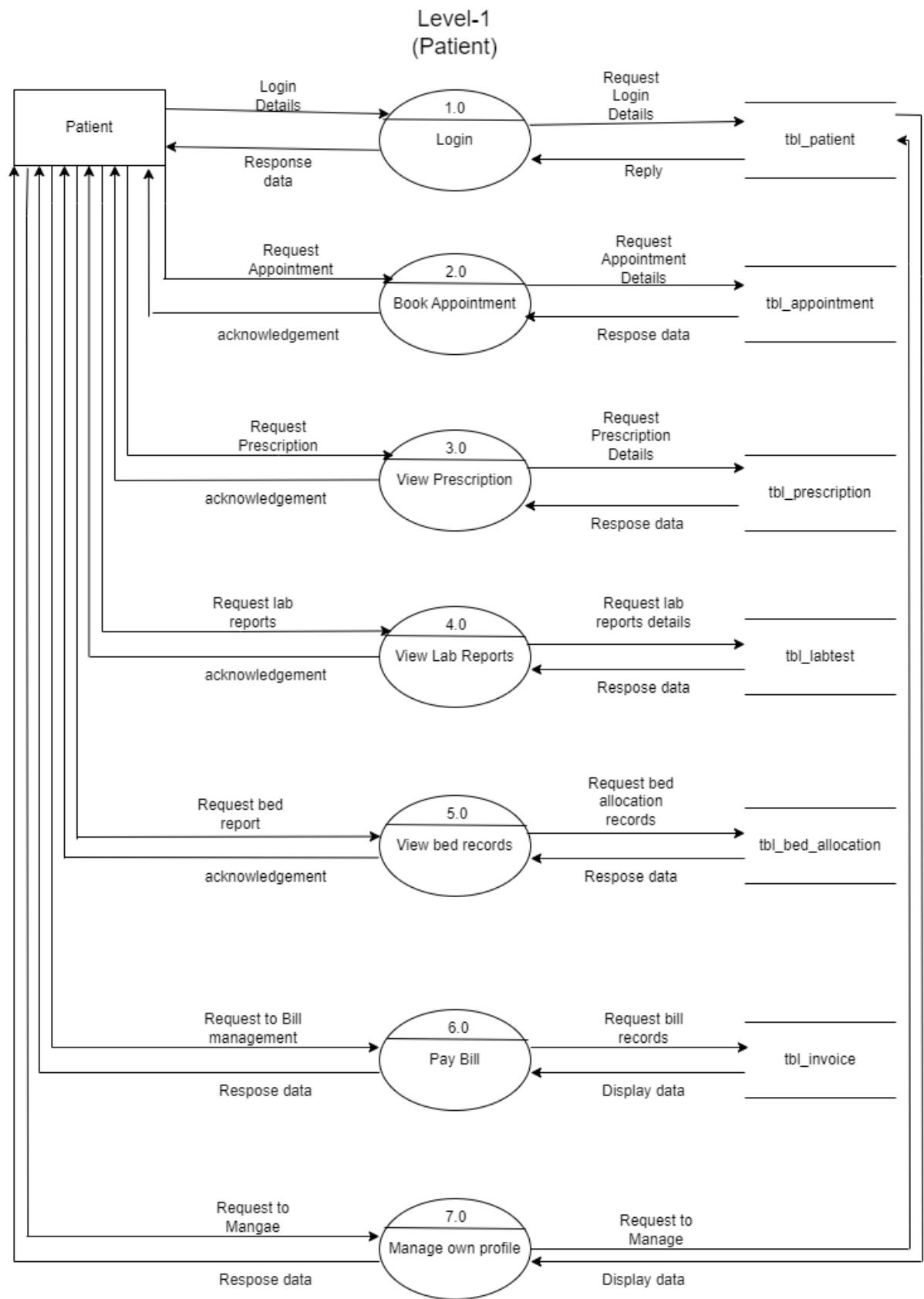
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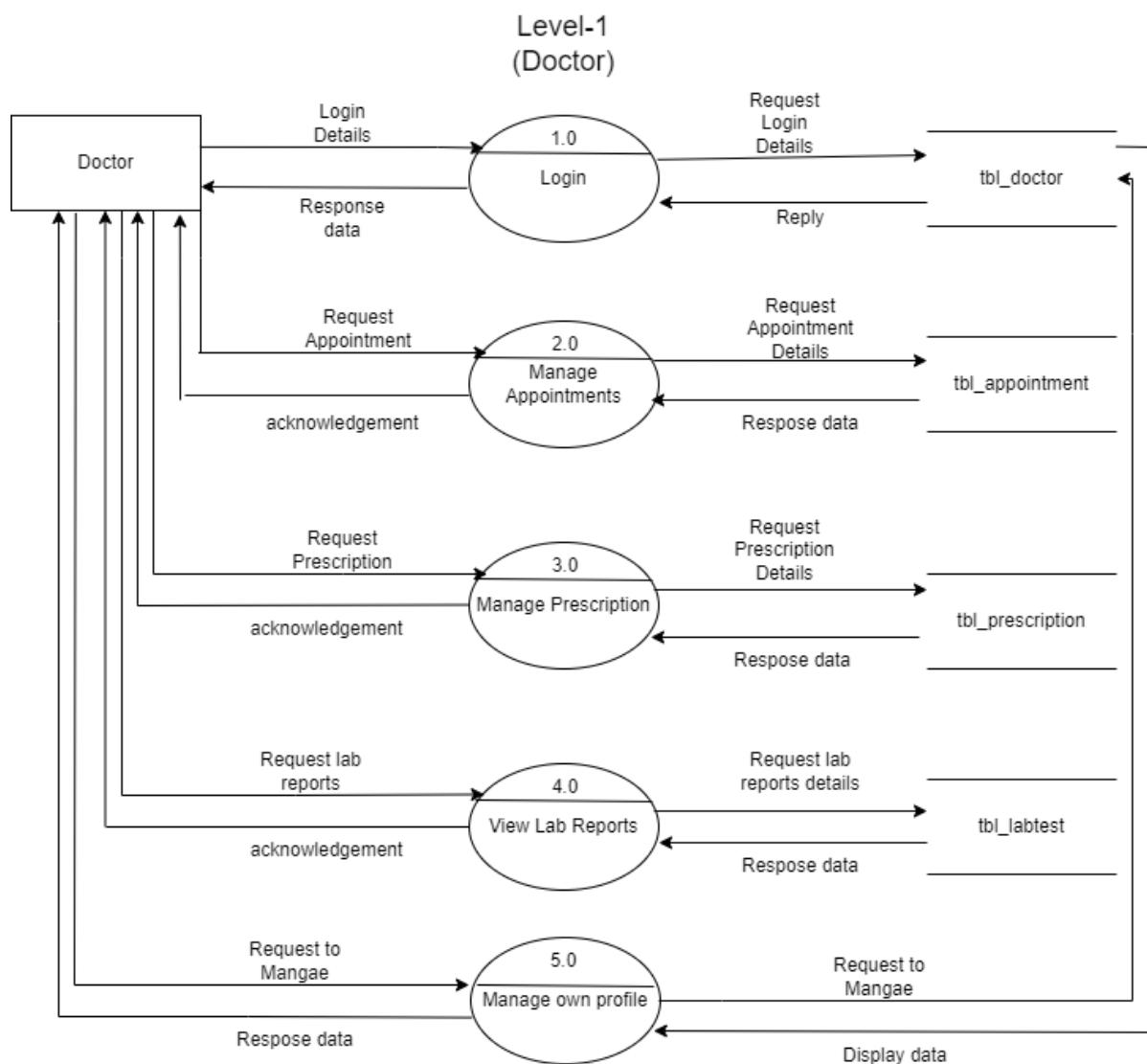
Hospital Management System



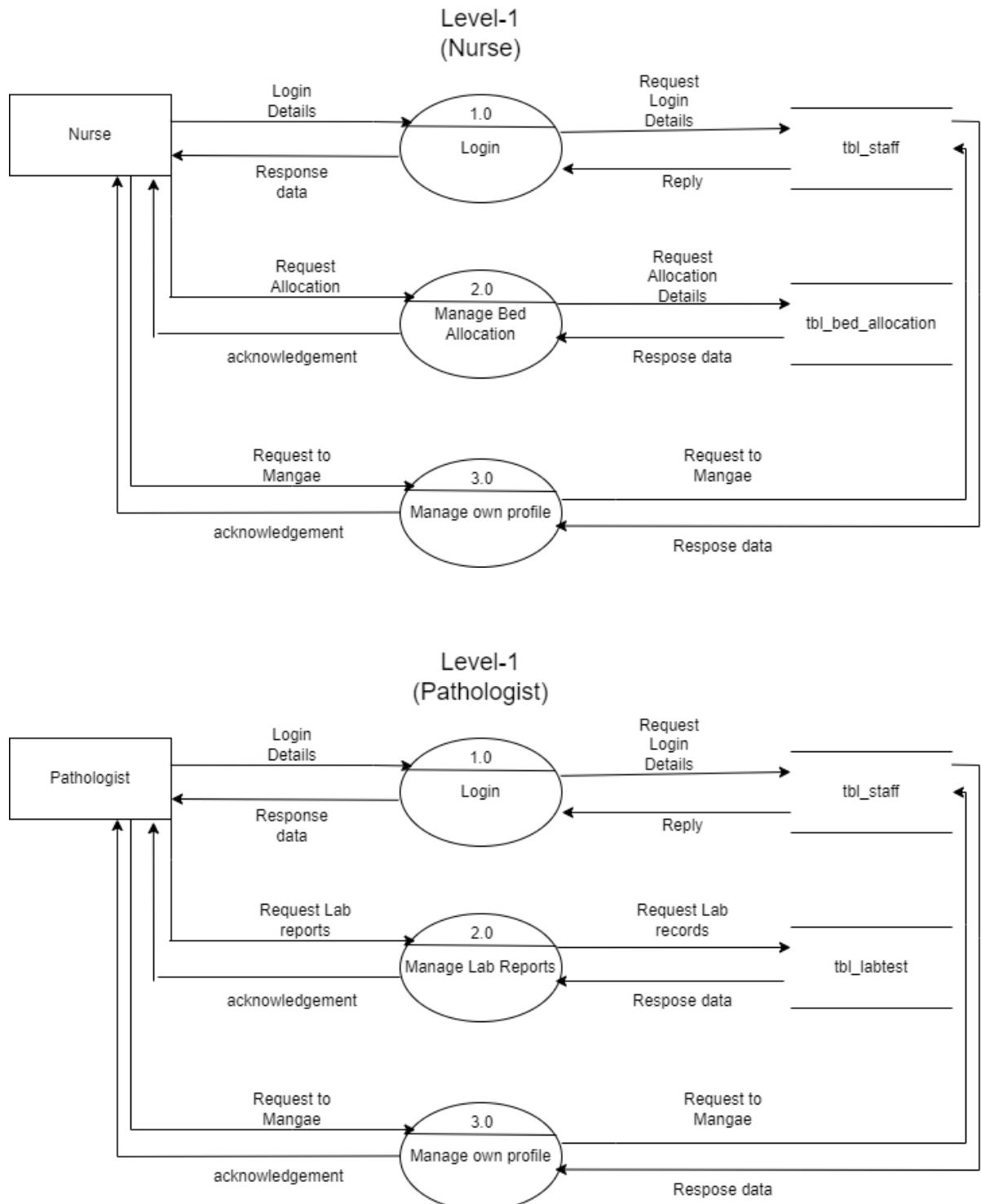
Hospital Management System



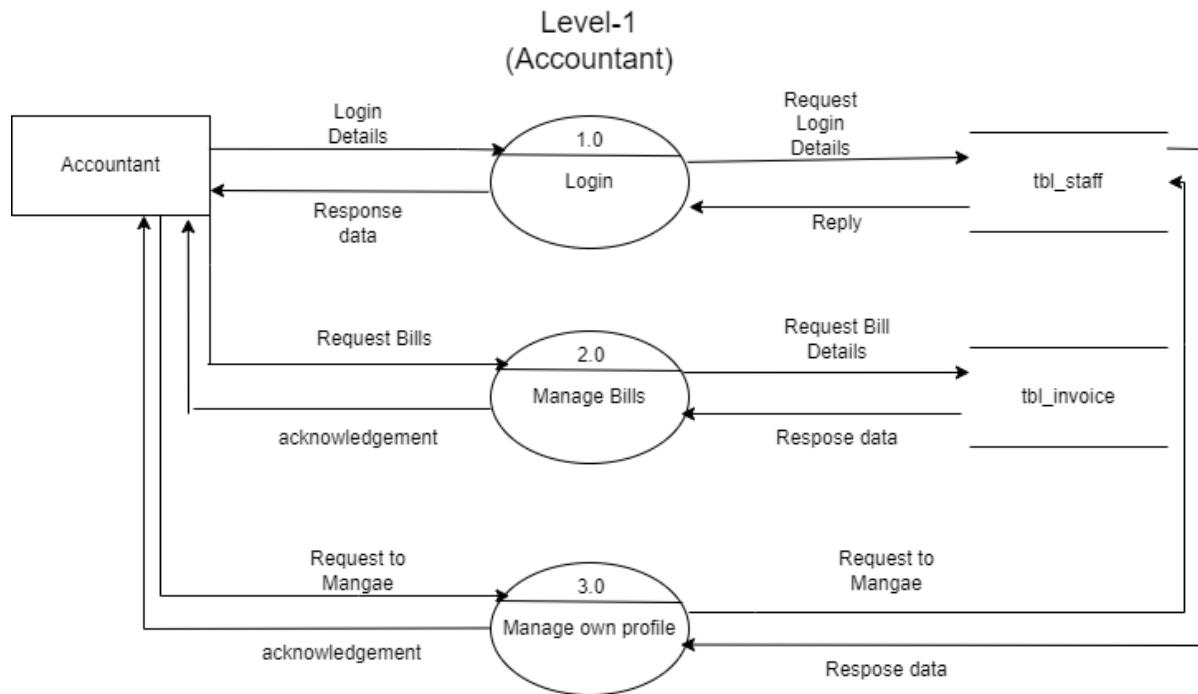
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Hospital Management System

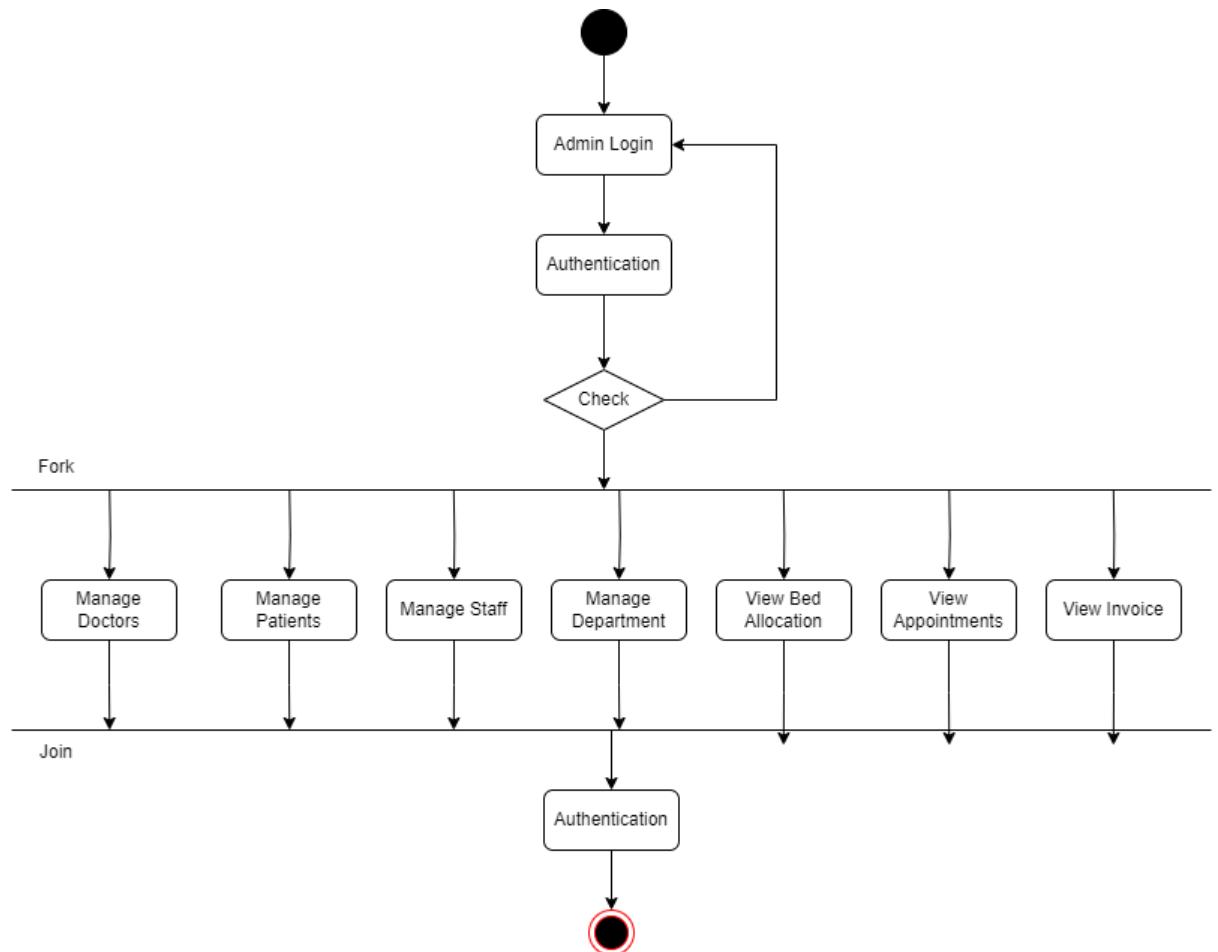


Hospital Management System



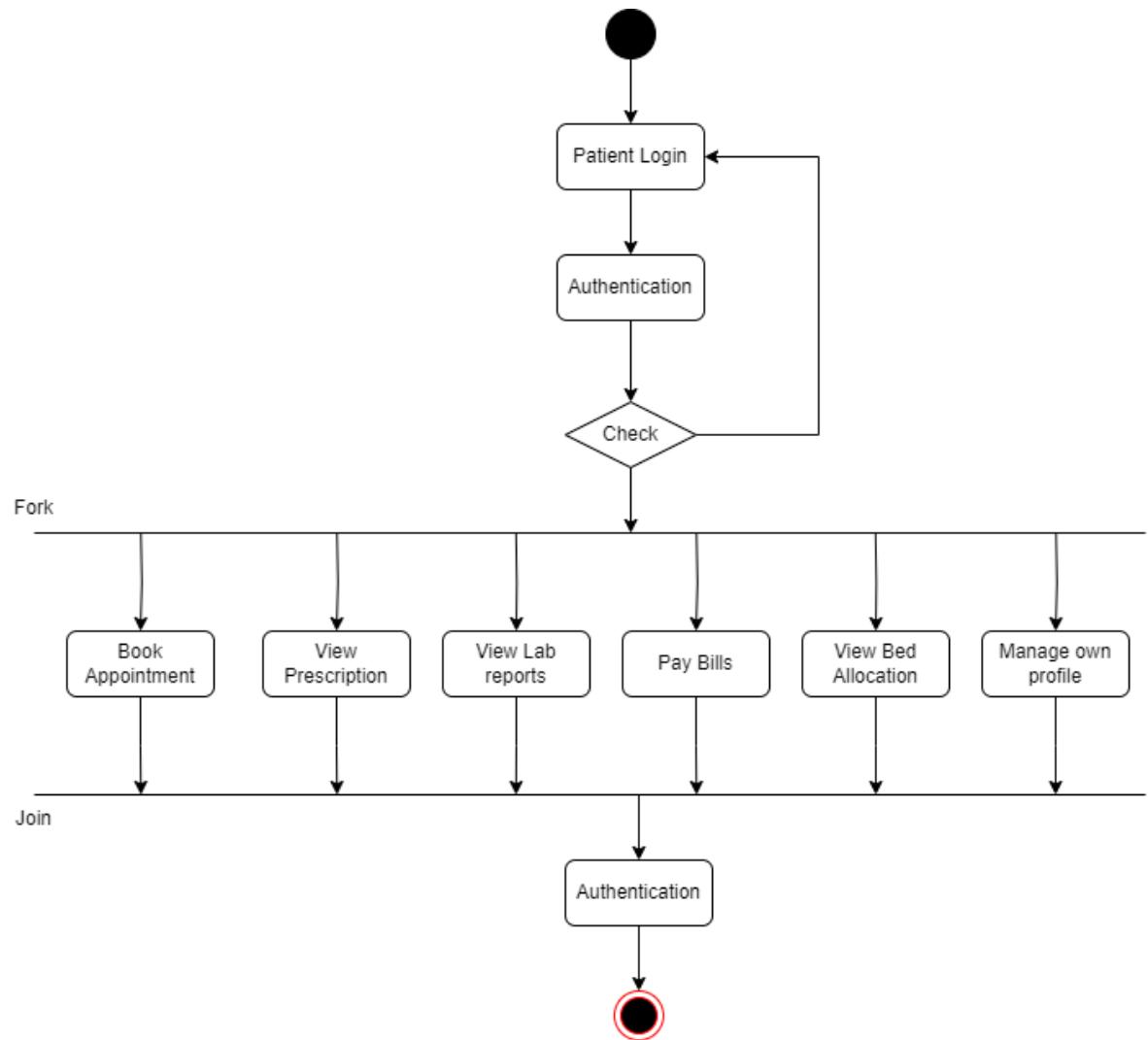
(Note: In manage process, the user can insert, update, delete and view data.)

5.4 Activity Diagram: Admin



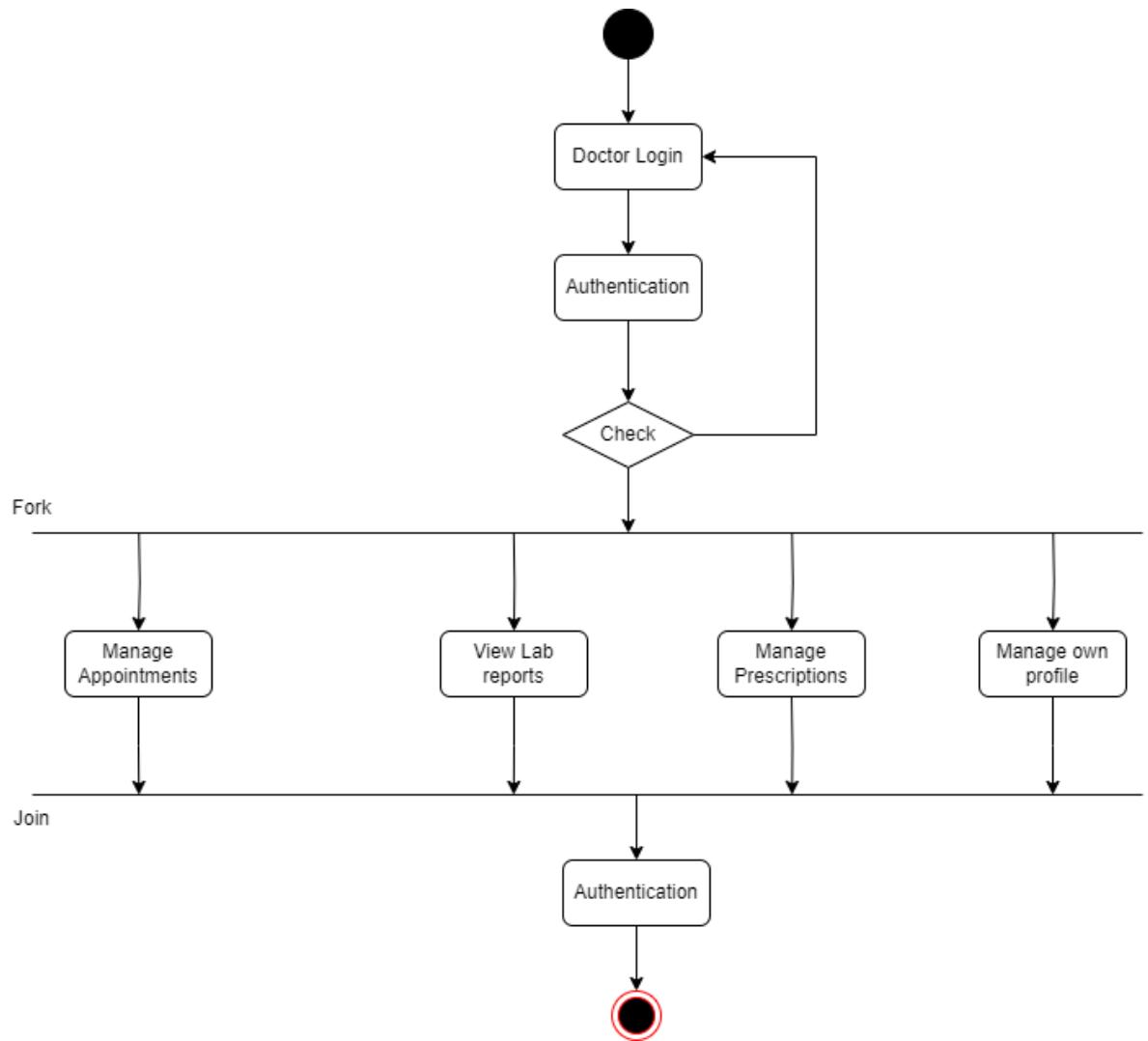
Hospital Management System

Patient:



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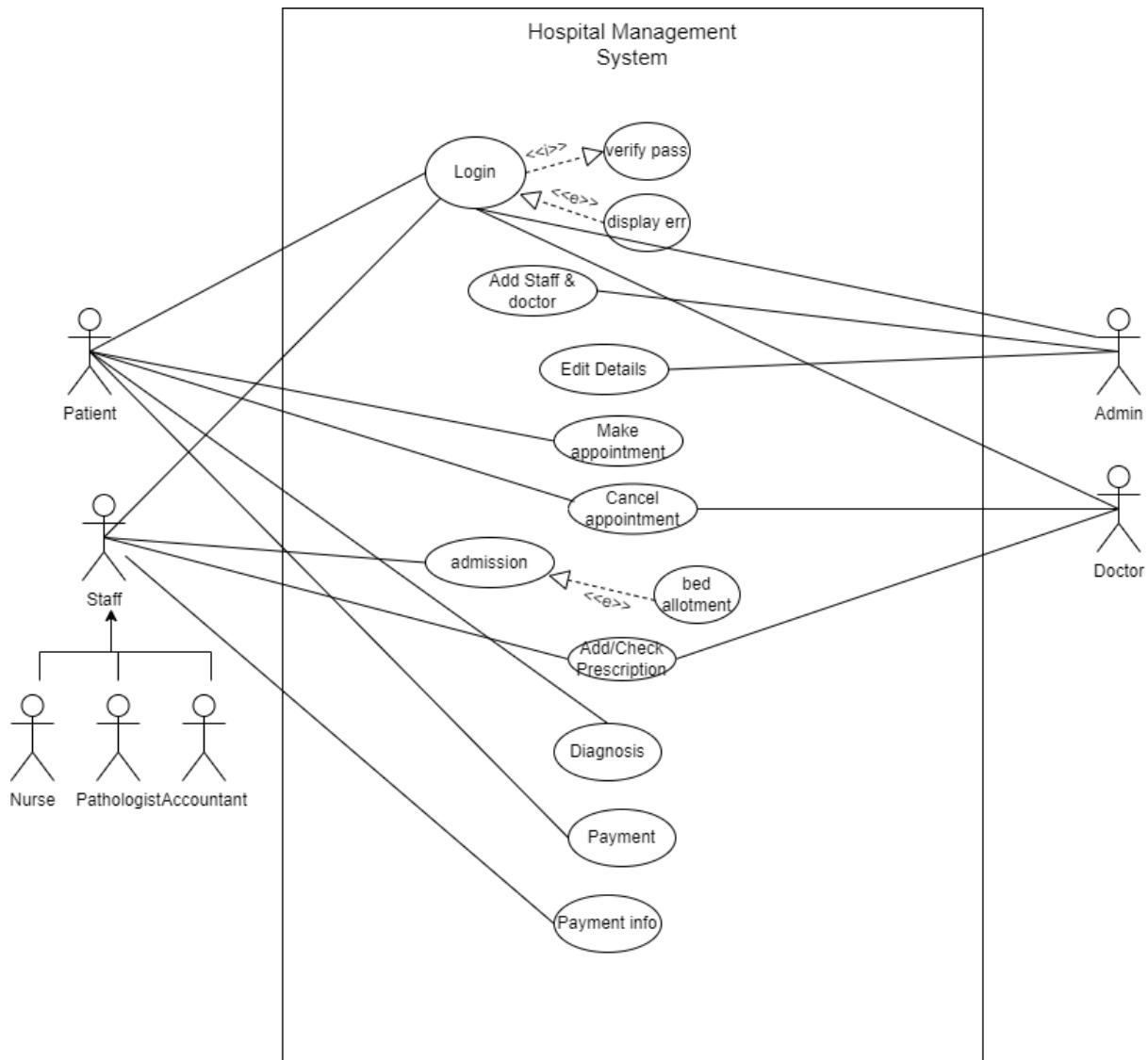
Doctor:



(Not including the staff activity diagram, as there are so less processes for each member.)

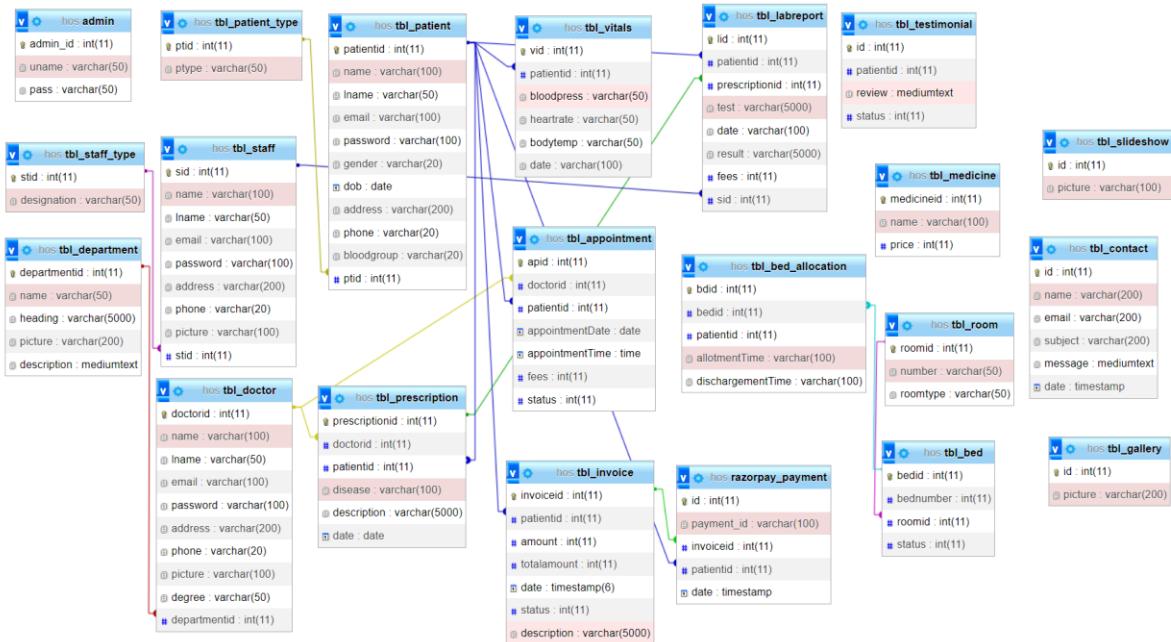
Hospital Management System

5.5 Use Case Diagram:



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5.6 Class Diagram:



5.7 Data Dictionary:

- **Admin**

Name	Format	Description
admin_id	integer	Primary key of a table
uname	varchar	Username of admin
pass	varchar	Password of admin

- **tbl_department**

Name	Format	Description
departmentid	integer	Primary key of a table
name	varchar	Department name
description	varchar	Description of the department

- **tbl_doctor**

Name	Format	Description
doctorid	Integer	Primary key of a table
name	varchar	First Name of doctor
lname	varchar	Last name of doctor
email	varchar	Login email for doctor
password	varchar	Login password for doctor

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address	varchar	Address of doctor
phone	varchar	Phone number of doctor
picture	varchar	Picture of doctor
degree	varchar	Graduation degree
departmentid	integer	Departmentid of doctor (foreign key)

- **tbl_staff_type**

Name	Format	Description
stid	integer	Primary key of a table
designation	varchar	Designation of staff member

- **tbl_staff**

Name	Format	Description
sid	Integer	Primary key of a table
name	varchar	First Name of staff member
lname	varchar	Last name of staff member
email	varchar	Login email for staff member
password	varchar	Login password for staff member
address	varchar	Address of staff member
phone	varchar	Phone number of staff member
picture	varchar	Picture of staff member

Hospital Management System

stid	int	Staff type of member(foreign key)
------	-----	-----------------------------------

- **tbl_patient_type**

Name	Format	Description
ptid	integer	Primary key of a table
ptype	varchar	Type of the patient

- **tbl_patient**

Name	Format	Description
patientid	Integer	Primary key of a table
name	varchar	First Name of patient
lname	varchar	Last name of patient
email	varchar	Login email for patient
password	varchar	Login password for patient
address	varchar	Address of patient
dob	date	Date of birth of patient
gender	varchar	Gender of patient
phone	varchar	Phone number of patient
bloodgroup	varchar	Blood Group of patient
ptid	integer	Patient type(foreign key)

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- **tbl_appointment**

Name	Format	Description
apid	Integer	Primary key of a table
doctorid	integer	Id of the doctor(foreign key)
patientid	integer	Id of the patient(foreign key)
appointmentDate	date	Date of the appointment taken
appointmentTime	time	Time of the appointment taken
fees	integer	Fees for the appointment
status	integer	Status of the appointment

- **tbl_prescription**

Name	Format	Description
prescriptionid	Integer	Primary key of a table
doctorid	integer	Id of the doctor(foreign key)
patientid	integer	Id of the patient(foreign key)
disease	varchar	Disease/illness of patient
description	varchar	Description given by doctor
date	date	Date of prescription

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- **tbl_labreport**

Name	Format	Description
lid	Integer	Primary key of a table
patientid	integer	Id of the patient(foreign key)
prescriptionid	integer	Id of the prescription(foreign key)
test	varchar	Tests conducted in lab
date	date	Date of the report issued
result	varchar	Result of the test
fees	integer	Fees for the lab test
sid	integer	Staff id (foreign key)

- **tbl_vitals**

Name	Format	Description
vid	Integer	Primary key of a table
patientid	integer	Id of the patient(foreign key)
bloodpress	varchar	Blood pressure of the patient
heartrate	varchar	Heartrate of the patient
bodytemp	varchar	Body temperature of the patient
date	date	Date when the vitals recorded

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- **tbl_room**

Name	Format	Description
Roomid	Integer	Primary key of a table
Number	varchar	Room number
Roomtype	varchar	Type of room

- **tbl_bed**

Name	Format	Description
bedid	Integer	Primary key of a table
Bednumber	integer	Bed number
Roomid	integer	Id of the room(foreign key)
status	integer	Status of the bed(if empty or not)

- **tbl_bed_allocation**

Name	Format	Description
bdid	Integer	Primary key of a table
bedid	integer	Id of the bed(foreign key)
patientid	integer	Id of the patient(foreign key)

Hospital Management System

allotmentTime	Timestamp	Date of the allotment
DischargegementTime	timestamp	Time of the dischargment

- **tbl_invoice**

Name	Format	Description
invoiceid	Integer	Primary key of a table
patientid	integer	Id of the patient(foreign key)
Amount	Date	Amount of stay for inpatient
Totalamount	Time	Total amount (includes appointment, lab fees)
Date	Integer	Date of the invoice generated
status	Integer	Status of the invoice(paid or unpaid)
Description	Varchar	Description

- **razorpay_payment**

Name	Format	Description
id	Integer	Primary key of a table
Payment_id	varchar	Unique payment id
Invoiceid	integer	Id of the invoice(foreign key)
patientid	integer	Id of the patient(foreign key)
date	date	Date of the payment

6. Designing

Hospital Management System

6.1 Database Design:

- Admin

#	Name	Type	Collation	Attributes	Null
1	admin_id 🔑	int(11)			No
2	uname	varchar(50)	utf8mb4_general_ci		No
3	pass	varchar(50)	utf8mb4_general_ci		No

- Tbl_department

#	Name	Type	Collation	Attributes	Null
1	departmentid 🔑	int(11)			No
2	name	varchar(50)	utf8mb4_general_ci		No
3	heading	varchar(5000)	utf8mb4_general_ci		No
4	picture	varchar(200)	utf8mb4_general_ci		No
5	description	mediumtext	utf8mb4_general_ci		No

- Tbl_staff_type

#	Name	Type	Collation	Attributes
1	stid 🔑	int(11)		
2	designation	varchar(50)	utf8mb4_general_ci	

Hospital Management System

- **Tbl_doctor**

#	Name	Type	Collation	Attributes	Null
1	doctorid 	int(11)			No
2	name	varchar(100)	utf8mb4_general_ci		No
3	lname	varchar(50)	utf8mb4_general_ci		No
4	email	varchar(100)	utf8mb4_general_ci		No
5	password	varchar(100)	utf8mb4_general_ci		No
6	address	varchar(200)	utf8mb4_general_ci		No
7	phone	varchar(20)	utf8mb4_general_ci		No
8	picture	varchar(100)	utf8mb4_general_ci		No
9	degree	varchar(50)	utf8mb4_general_ci		No
10	departmentid 	int(11)			No

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- **Tbl_staff**

#	Name	Type	Collation	Attributes	Null
1	sid 	int(11)			No
2	name	varchar(100)	utf8mb4_general_ci		No
3	Iname	varchar(50)	utf8mb4_general_ci		No
4	email	varchar(100)	utf8mb4_general_ci		No
5	password	varchar(100)	utf8mb4_general_ci		No
6	address	varchar(200)	utf8mb4_general_ci		No
7	phone	varchar(20)	utf8mb4_general_ci		No
8	picture	varchar(100)	utf8mb4_general_ci		No
9	stid 	int(11)			No

- **Tbl_patient_type**

#	Name	Type	Collation	Attributes	Null
1	ptid 	int(11)			No
2	ptype	varchar(50)	utf8mb4_general_ci		No

Hospital Management System

- **Tbl_patient**

#	Name	Type	Collation	Attributes	Null
1	patientid 	int(11)			No
2	name	varchar(100)	utf8mb4_general_ci		No
3	lname	varchar(50)	utf8mb4_general_ci		No
4	email	varchar(100)	utf8mb4_general_ci		No
5	password	varchar(100)	utf8mb4_general_ci		No
6	gender	varchar(20)	utf8mb4_general_ci		No
7	dob	date			No
8	address	varchar(200)	utf8mb4_general_ci		No
9	phone	varchar(20)	utf8mb4_general_ci		No
10	bloodgroup	varchar(20)	utf8mb4_general_ci		No
11	ptid 	int(11)			No

Hospital Management System

- **Tbl_medicine**

#	Name	Type	Collation	Attributes	Null
1	medicineid 	int(11)			No
2	name	varchar(100)	utf8mb4_general_ci		No
3	price	int(11)			No

- **Tbl_appointment**

#	Name	Type	Collation	Attributes	Null
1	apid 	int(11)			No
2	doctorid 	int(11)			No
3	patientid 	int(11)			No
4	appointmentDate	date			No
5	appointmentTime	time			No
6	fees	int(11)			No
7	status	int(11)			No

Hospital Management System

• Tbl_prescription

#	Name	Type	Collation	Attributes	Null
1	prescriptionid 	int(11)			No
2	doctorid 	int(11)			No
3	patientid 	int(11)			No
4	disease	varchar(100)	utf8mb4_general_ci		No
5	description	varchar(5000)	utf8mb4_general_ci		No
6	date	date			No

• Tbl_labreport

#	Name	Type	Collation	Attributes	Null
1	lid 	int(11)			No
2	patientid 	int(11)			No
3	prescriptionid 	int(11)			No
4	test	varchar(5000)	utf8mb4_general_ci		No
5	date	varchar(100)	utf8mb4_general_ci		No
6	result	varchar(5000)	utf8mb4_general_ci		No
7	fees	int(11)			No
8	sid 	int(11)			No

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- **Tbl_vitals**

#	Name	Type	Collation	Attributes	Null
1	vid 	int(11)			No
2	patientid 	int(11)			No
3	bloodpress	varchar(50)	utf8mb4_general_ci		No
4	heartrate	varchar(50)	utf8mb4_general_ci		No
5	bodytemp	varchar(50)	utf8mb4_general_ci		No
6	date	varchar(100)	utf8mb4_general_ci		No

- **Tbl_room**

#	Name	Type	Collation	Attributes	Null
1	roomid 	int(11)			No
2	number	varchar(50)	utf8mb4_general_ci		No
3	roomtype	varchar(50)	utf8mb4_general_ci		No

- **Tbl_bed**

#	Name	Type	Collation	Attributes	Null
1	bedid 	int(11)			No
2	bednumber	int(11)			No
3	roomid 	int(11)			No
4	status	int(11)			No

Hospital Management System

• Tbl_bed_allocation

#	Name	Type	Collation	Attributes	Null
1	bdid 	int(11)			No
2	bedid 	int(11)			No
3	patientid 	int(11)			No
4	allotmentTime	varchar(100)	utf8mb4_general_ci		No
5	dischargegementTime	varchar(100)	utf8mb4_general_ci		No

• Tbl_invoice

#	Name	Type	Collation	Attributes	Null
1	invoiceid 	int(11)			No
2	patientid 	int(11)			No
3	amount	int(11)			No
4	totalamount	int(11)			No
5	date	timestamp(6)			No
6	status	int(11)			No
7	description	varchar(5000)	utf8mb4_general_ci		No

Hospital Management System

- **Razorpay_payment**

#	Name	Type	Collation	Attributes	Null
1	id 	int(11)			No
2	payment_id	varchar(100)	utf8mb4_general_ci		No
3	invoiceid 	int(11)			No
4	patientid 	int(11)			No
5	date	timestamp			No

- **Tbl_gallery**

#	Name	Type	Collation	Attributes	Null
1	id 	int(11)			No
2	picture	varchar(200)	utf8mb4_general_ci		No

- **Tbl_testimonial**

#	Name	Type	Collation	Attributes	Null
1	id 	int(11)			No
2	patientid	int(11)			No
3	review	mediumtext	utf8mb4_general_ci		No
4	status	int(11)			No

Hospital Management System

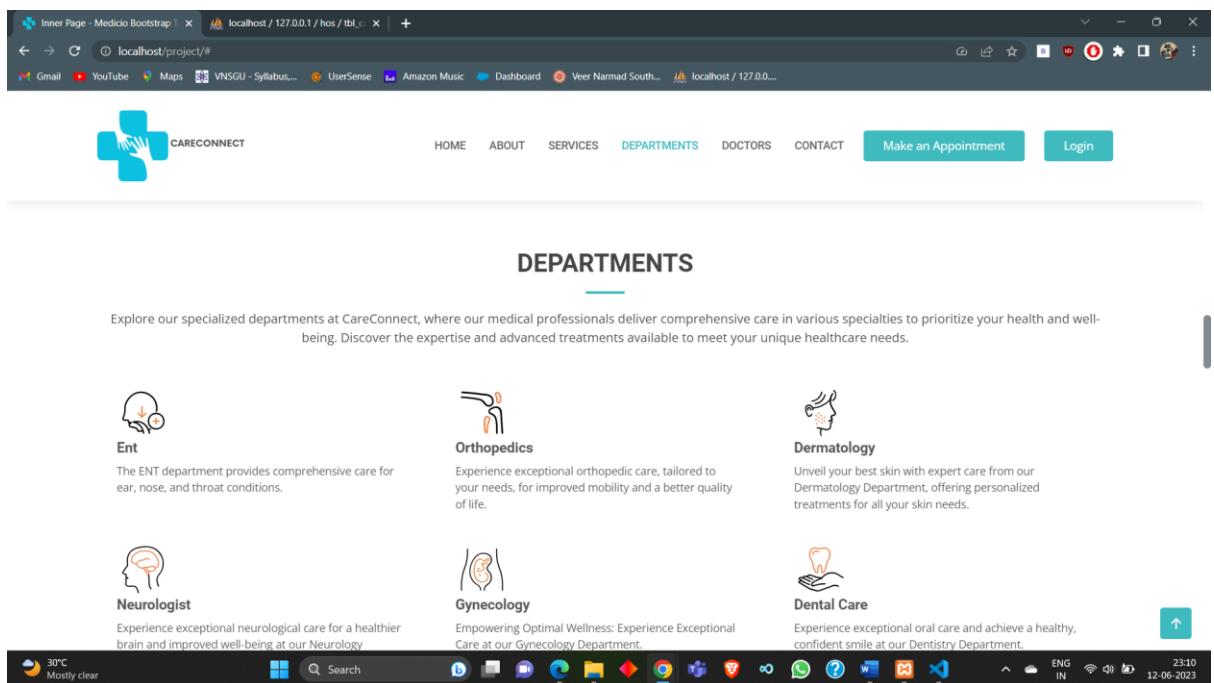
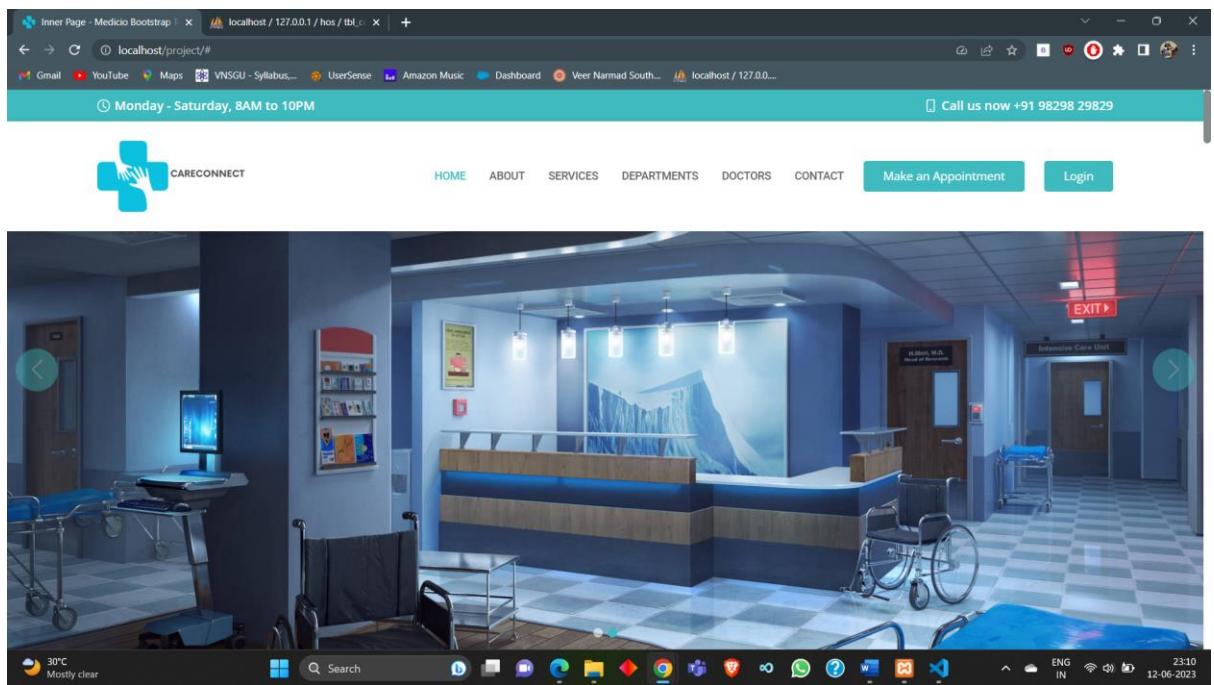
• Tbl_contact

#	Name	Type	Collation	Attributes	Null
1	id 	int(11)			No
2	name	varchar(200)	utf8mb4_general_ci		No
3	email	varchar(200)	utf8mb4_general_ci		No
4	subject	varchar(200)	utf8mb4_general_ci		No
5	message	mediumtext	utf8mb4_general_ci		No
6	date	timestamp			No

Hospital Management System

6.2 Screenshots:

Home Page



Hospital Management System

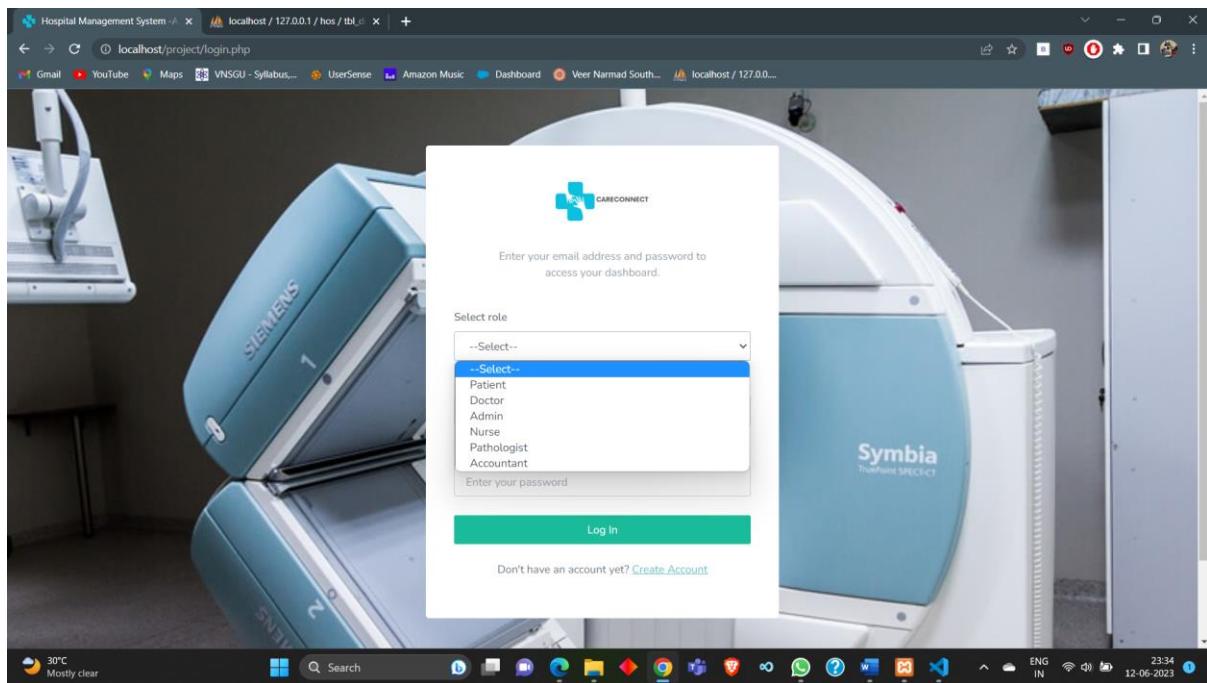
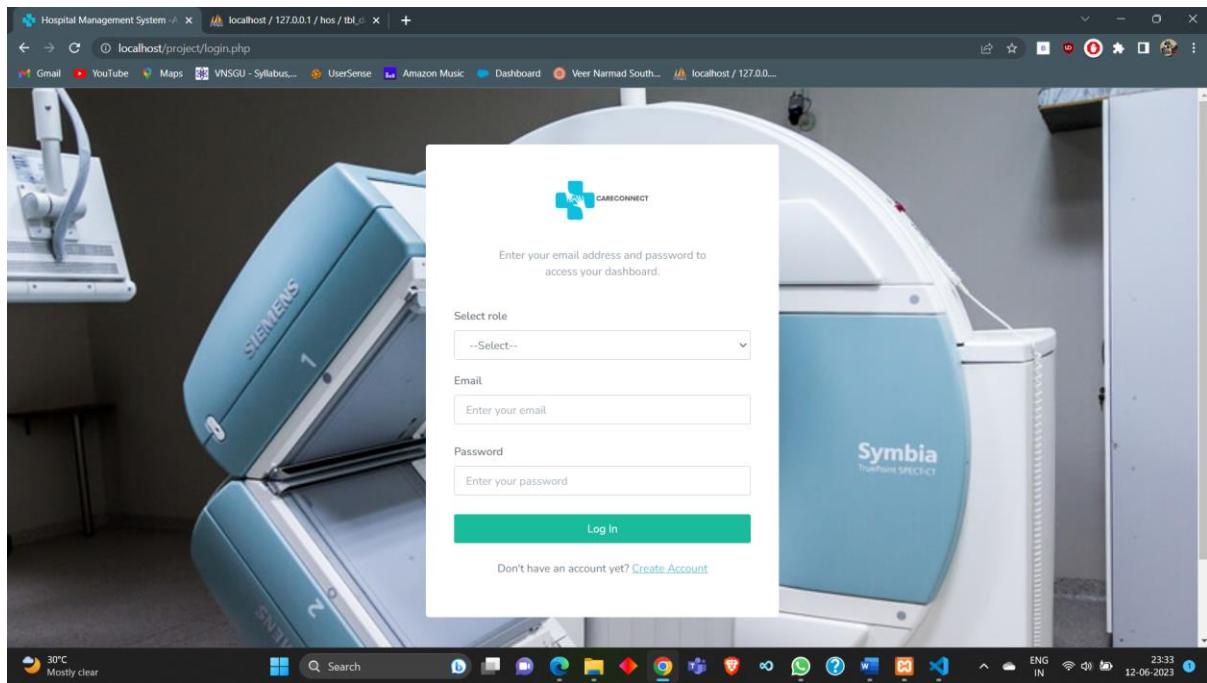
The screenshot shows a web browser window with multiple tabs open. The active tab displays the 'Contact' page for 'CARECONNECT'. The page features a header with the CareConnect logo and navigation links for HOME, ABOUT, SERVICES, DEPARTMENTS, DOCTORS, and CONTACT. Below the header is a message encouraging users to contact the team. On the left, there's a section for 'Our Address' with a map pin icon and the address 'CareConnect Hospital, Surat, Gujarat 395007'. Below this are sections for 'Email Us' (with icons for email and a person) and 'Call Us' (with icons for phone and a person). To the right is a large form for sending messages, with fields for 'Your Name', 'Your Email', 'Subject', and 'Message', followed by a 'Send Message' button. The browser's status bar at the bottom shows the date and time as 12-06-2023 and 23:15.

Footer

The screenshot shows a web browser window with multiple tabs open. The active tab displays the footer page for 'CARECONNECT'. The page includes a header with the CareConnect logo and navigation links for HOME, ABOUT, SERVICES, DEPARTMENTS, DOCTORS, CONTACT, and two buttons: 'Make an Appointment' and 'Login'. Below the header is a contact information section with fields for 'Email' (contact@careconnect.co.in), 'Phone' (+91 98298 29820), and a 'Send Message' button. The main content area contains four columns: 'CareConnect' (with address: CareConnect Hospital, Surat, Gujarat 395007, phone: +91 98298 29829, email: contact@careconnect.co.in, and social media icons for Twitter, Facebook, Instagram, Telegram, and LinkedIn); 'Useful Links' (with links to Home, About us, Services, Departments, and Doctors); 'Explore' (with links to Privacy Policy, Terms & Conditions, and Contact); and 'Subscribe Our Newsletter' (with a text input field and a 'Subscribe' button). The browser's status bar at the bottom shows the date and time as 12-06-2023 and 23:15.

Hospital Management System

Login



Hospital Management System

Patient Signup

The screenshot shows the 'Patient Signup' page of a Hospital Management System. The page has a header with the 'CARECONNECT' logo and a link to 'Sign in'. It features a form titled 'Create a new account' with the following fields:

- First Name (input field)
- Last Name (input field)
- Email (input field)
- Password (input field)
- Confirm Password (input field)
- Gender (radio buttons for Male and Female)
- Date of Birth (input field)
- Address (input field)

At the bottom right of the form is a green 'Register' button. The browser's address bar shows the URL: `localhost/project/patient_register.php`. The taskbar at the bottom of the screen displays various application icons.

This screenshot shows the same 'Patient Signup' page, but with different fields displayed. The visible fields are:

- Confirm Password (input field)
- Gender (radio buttons for Male and Female)
- Date of Birth (input field)
- Address (input field)
- Phone (input field)
- Blood Group (dropdown menu showing 'A+')

A green 'Register' button is located at the bottom left of the form area. The browser's address bar shows the URL: `localhost/project/patient.register.php`. The taskbar at the bottom of the screen displays various application icons.

Hospital Management System

Admin Panel:

Admin Dashboard

The screenshot shows the Admin Dashboard of the Hospital Management System. On the left, a sidebar titled 'NAVIGATION' lists various administrative functions: Dashboard, Patients, Doctors, Staff, Pharmacy, Laboratory, Bed Allocation, Bill, and HomePage. The main content area is titled 'Hospital Management System Dashboard'. It displays several key metrics in large circular icons: Out Patients (3), In Patients (1), Doctors (6), Staff Members (3), Total beds (2), and Available beds (2). Below these, a section titled 'Hospital Doctors' lists three entries with columns for Picture, Name, Email, Department, and Action (View). The bottom status bar shows the weather (30°C, Mostly clear), system search, and various application icons.

Register Patients

The screenshot shows the 'Add Patient Details' page. The navigation sidebar includes 'Patients' (selected), 'Register Patient', and 'Manage Patients'. The main form requires filling all fields. It includes input fields for First Name, Last Name, Email, Password, Gender (Male/Female), Date of Birth (dd-mm-yyyy), and Address. A note at the top says 'Fill all fields'. The bottom status bar is identical to the one in the dashboard screenshot.

Hospital Management System

Manage Patients

The screenshot shows the 'Manage Patients' page of the Hospital Management System. The left sidebar has a navigation menu with 'Patients' selected, showing options like 'Register Patient' and 'Manage Patients'. The main content area displays a table of patient records with columns for PatientID, Name, Email, Phone, Patient Type, and Action (Delete, View, Update). The table contains five entries:

PatientID	Name	Email	Phone	Patient Type	Action
20230001	Lol Sharma	pat@gmail.com	1234567890	InPatient	Delete View Update
20230003	mann Patel	mann@gmail.com	6351247890	OutPatient	Delete View Update
20230004	Dhruv Tailor	dhruv@gmail.com	8975462103	OutPatient	Delete View Update
20230005	Anjali Mehta	anjali@gmail.com	6547891302	OutPatient	Delete View Update

At the bottom, there is a footer bar with weather information (30°C Mostly clear), system icons, and a timestamp (12-06-2023 23:37).

Update Patient

The screenshot shows the 'Update Patient Details' page. The left sidebar has a navigation menu with 'Patients' selected. The main content area displays a form for updating patient details, including fields for First Name, Last Name, Email, Password, Gender (Male selected), Date of Birth (03-05-1997), and Address. The form also includes radio buttons for Male and Female genders.

Hospital Management System

View Single Patient

The screenshot shows a web browser window for the 'Hospital Management System' at localhost/project/admin/view_single_patient.php?pid=20230001. The page displays 'Lol's Profile' with the following details:

Information	Value
Name	Lol Sharma
Email	pat@gmail.com
Mobile	1234567890
Address	Mumbai
Date Of Birth	03/05/1997
Gender	Male
Blood Group	O+

On the right side, there is a 'Prescription' section for 'Malaria' dated 02/05/2023, which includes the note: 'Urgent need to admit in hospital' and 'contact the nurse fast'. Navigation links include 'Dashboard', 'Patients', 'View Patients', 'Vitals', and 'Lab Records'. The left sidebar shows a navigation menu with 'Patients' selected. The bottom status bar shows the date as 12-06-2023 and the time as 23:38.

Add doctor

The screenshot shows a web browser window for the 'Hospital Management System' at localhost/project/admin/add_doctor.php. The page is titled 'Add Doctor Details' and contains fields for entering doctor information:

Field	Description
First Name	Text input field for the doctor's first name.
Last Name	Text input field for the doctor's last name.
Email	Text input field for the doctor's email address.
Password	Text input field for the doctor's password.
Address	Text input field for the doctor's address.
Phone	Text input field for the doctor's phone number.
Picture	File upload input field for the doctor's profile picture.

The left sidebar shows a navigation menu with 'Doctors' selected and 'Add Doctor' highlighted. The bottom status bar shows the date as 12-06-2023 and the time as 23:38.

Hospital Management System

Add Department

The screenshot shows the 'Add Department' page of the Hospital Management System. The left sidebar has a navigation menu with 'Doctors' selected. The main content area has a heading 'Add Department' and a note 'Fill all fields'. A 'Department' input field is empty. Below it is a green 'Add Department' button. To the right is a table listing existing departments:

ID	Name	Action
1	Ent	[Delete] [Update]
2	Orthopedics	[Delete] [Update]
3	Dermatology	[Delete] [Update]
4	Neurologist	[Delete] [Update]
5	Gynecology	[Delete] [Update]
6	Dental Care	[Delete] [Update]
7	Radiology	[Delete] [Update]

Manage Doctors

The screenshot shows the 'Manage Doctors' page of the Hospital Management System. The left sidebar has a navigation menu with 'Doctors' selected. The main content area has a heading 'Manage Employees Details' and a search bar. Below it is a table listing doctor details:

DoctorID	Name	Email	Degree	Department	Action
6001	Jay Shetty	jay@gmail.com	BDS	Orthopedics	[Delete] [View] [Update]
6002	John Doe	doe@gmail.com	MBBS	Neurologist	[Delete] [View] [Update]
6003	Walter White	white@gmail.com	MBBS	Gynecology	[Delete] [View] [Update]
6005	Mihir Bhandari	mihir@gmail.com	MBBS	Psychiatry	[Delete] [View] [Update]
6006	Komal Hathi	komal@gmail.com	DDS	Dental Care	[Delete] [View] [Update]
6008	Maulik Shah	maulik@gmail.com	MBBS	Radiology	[Delete] [View] [Update]

Hospital Management System

View Single Doctor

The screenshot shows a web browser window for the 'Hospital Management System' on a Windows desktop. The URL is `localhost/project/admin/view_single_doctor.php?doc_id=6001`. The page title is 'Jay's Profile'. On the left, there is a navigation sidebar with links like Dashboard, Patients, Doctors, Staff, Pharmacy, Laboratory, Bed Allocation, Bill, and HomePage. The main content area displays a profile picture of a doctor named Jay Shetty, with details: Id: 6001, Name: Jay Shetty, Email: jay@gmail.com, Address: baroda gujarat, Mobile Number: 1234567890, Degree: BDS, and Department: Orthopedics. The system interface includes a search bar and a user menu for 'admin'. The taskbar at the bottom shows various application icons and the date/time as 12-06-2023.

Add Staff

The screenshot shows a web browser window for the 'Hospital Management System' on a Windows desktop. The URL is `localhost/project/admin/add_staff.php`. The page title is 'Add Employee Details'. The navigation sidebar includes a link to 'Add Employee'. The main form has fields for First Name, Last Name, Email, Password, Address, Phone, and Picture. A note says 'Fill all fields'. The system interface includes a search bar and a user menu for 'admin'. The taskbar at the bottom shows various application icons and the date/time as 12-06-2023.

Hospital Management System

View Single Staff Member

The screenshot shows a web browser window for the "Hospital Management System" on a Windows desktop. The URL is `localhost/project/admin/view_single_employee.php?s_id=7004`. The page title is "Akash 's Profile". On the left, there is a navigation sidebar with links like Dashboard, Patients, Doctors, Staff, Pharmacy, Laboratory, Bed Allocation, Bill, and HomePage. The main content area displays a profile picture of a character from an anime, with the following details:
Id : 7004
Name : Akash Rathod
Email : akash@gmail.com
Address : Surat
Mobile Number : 6548792031
Designation : Accountant

Add Image for website dynamically

The screenshot shows a web browser window for the "Hospital Management System" on a Windows desktop. The URL is `localhost/project/admin/slideshow.php`. The page title is "Fill all fields". The left sidebar includes links for Dashboard, Patients, Doctors, Staff, Pharmacy, Laboratory, Bed Allocation, Bill, HomePage, SlideShow, Departments, and Gallery. The main area has a "Picture" section with a "Choose File" button and a "Add Image" button. Below is a table showing two images added to the gallery:

#	Image	Action
1		Delete
2		Delete

Hospital Management System

Contact us queries

The screenshot shows a Windows desktop environment with a browser window open to the 'Hospital Management System'. The title bar of the browser says 'localhost / 127.0.0.1 / hos / tbLd...'. The main content area is titled 'Add Image' and contains a table with one row. The table has columns for '#', 'Name', 'Email', 'Subject', 'Date', and 'Action'. The first row contains the values: #1, Name 'Kameko Andrews', Email 'ruka@mailinator.com', Subject 'Do quia Nam hic veli', Date '28/05/2023', and Action 'Delete'. On the left side, there is a navigation sidebar with various links like Dashboard, Patients, Doctors, Staff, Pharmacy, Laboratory, Bed Allocation, Bill, and HomePage. The 'HomePage' link is currently selected. At the bottom of the screen, the taskbar shows the date as 12-06-2023 and the time as 23:42.

Testimonials

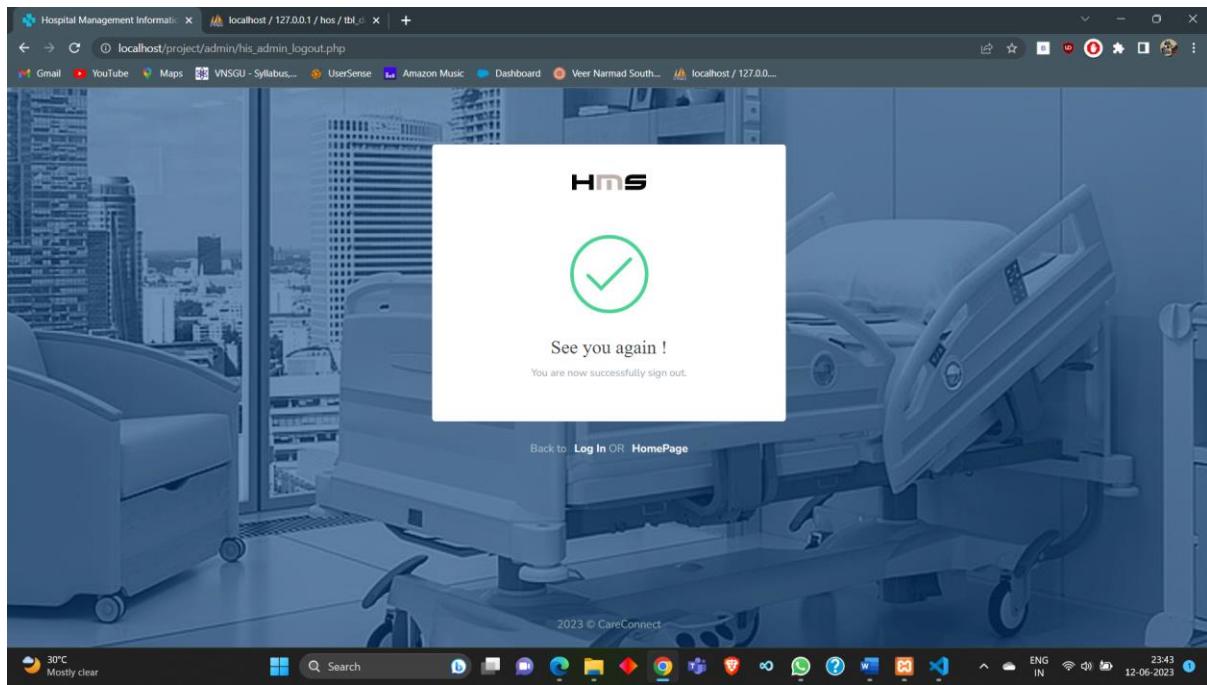
The screenshot shows a Windows desktop environment with a browser window open to the 'Hospital Management System'. The title bar of the browser says 'localhost / 127.0.0.1 / hos / tbLd...'. The main content area is titled 'Appointment History' and contains a table with four rows of data. The table has columns for 'Id', 'Patient Name', 'Review', 'Current Status', and 'Action'. The rows show the following information:

Id	Patient Name	Review	Current Status	Action
1	Lol Sharma	The hospital was great! The staff was friendly and helpful, making me feel comfortable during my visit. The facilities were clean and well-maintained. The doctors were knowledgeable and took the time to address my concerns.	Visible	✓ Active
2	Anjali Mehta	The hospital was great! The staff was friendly and attentive. The facilities were clean and modern. I received excellent care during my visit. I would definitely recommend this hospital to others.	Visible	✓ Active
3	Dhruv Tailor	Wow, what a great hospital experience! The staff was friendly and attentive. The facilities were clean and modern. I felt well taken care of throughout my visit. Highly recommended!	Visible	✓ Active
4	Lol Sharma	vbvbvh	Hidden	✓ Active

On the left side, there is a navigation sidebar with various links like Dashboard, Patients, Doctors, Staff, Pharmacy, Laboratory, Bed Allocation, Bill, and HomePage. The 'HomePage' link is currently selected. At the bottom of the screen, the taskbar shows the date as 12-06-2023 and the time as 23:42.

Hospital Management System

Logout page



Patient Panel:

Dashboard

A screenshot of a web browser window showing the patient dashboard. The left sidebar has a navigation menu with options like Dashboard, Appointment, Pharmacy, Laboratory, Bed Allocation, Bill, and Review. The main content area shows 'Anjali's Profile' with details: Name: Anjali Mehta, Email: anjali@gmail.com, Mobile: 6547891302, Address: Mumbai, Date Of Birth: 09/06/1978, Gender: Female, Blood Group: A-. To the right, there are tabs for Prescription, Vitals, and Lab Records. The Prescription tab shows a date (20/05/2023), a condition (fever), and some text (fdsvdsvdsv). The taskbar at the bottom shows a weather forecast (30°C, Mostly clear) and various application icons.

Hospital Management System

Update Profile

The screenshot shows the 'Update Profile' page for 'Anjali Mehta's Profile'. The left sidebar lists navigation options: Dashboard, Appointment, Pharmacy, Laboratory, Bed Allocation, Bill, and Review. The main content area displays personal information: Id: 20230005, Name: Anjali Mehta, Email: anjali@gmail.com, Address: Mumbai, Mobile Number: 6547891302, and Date of Birth: 09/06/1978. On the right, there are two tabs: 'Update Profile' (highlighted in purple) and 'Change Password'. Under 'PERSONAL INFO', fields for First Name (Anjali), Last Name (Mehta), Email Address (anjali@gmail.com), Address (Mumbai), Phone (6547891302), and Date of Birth (09-06-1978) are present. A green 'Save' button is at the bottom right. The status bar at the bottom shows '2023 © CareConnect' and system icons.

Change Password

The screenshot shows the 'Change Password' page for 'Anjali Mehta's Profile'. The left sidebar is identical to the previous page. The main content area displays the same personal information. On the right, there are two tabs: 'Update Profile' (grayed out) and 'Change Password' (highlighted in purple). Under 'PERSONAL INFO', fields for Old Password (Enter Old Password), New Password (Enter New Password), and Confirm Password (Confirm New Password) are present. A green 'Update Password' button is at the bottom right. The status bar at the bottom shows 'localhost/project/patient/update_account.php#settings' and system icons.

Hospital Management System

Book Appointment

The screenshot shows the 'Book Appointment' page of the Hospital Management System. The left sidebar has a navigation menu with 'Appointment' selected, showing 'Book Appointment' as the active sub-item. The main content area is titled 'Add Patient Details' and contains fields for 'Department' (Radiology), 'Doctor' (Maulik Shah), 'Date' (16-06-2023), 'Time' (09:30), and 'Fees' (500). A 'Book' button is at the bottom. The top right shows a breadcrumb path: Dashboard > Patients > Add Patient. The bottom status bar shows system information like weather (30°C, Mostly clear) and date/time (12-06-2023, 23:53).

Appointment History

The screenshot shows the 'Appointment History' page for 'Anjali's Appointment History'. The left sidebar has a navigation menu with 'Appointment' selected, showing 'Appointment History' as the active sub-item. The main content area is titled 'Anjali's Appointment History' and displays a table of appointments. The table has columns for Appointment Id, Doctor Name, Date, Time, Fees, Current Status, and Action. Two entries are listed: 23008 (Jay Shetty, 2023-05-20, 09:45:00, 500, Active) and 23010 (Maulik Shah, 2023-06-16, 09:30:00, 500, Active). A search bar is at the top left of the table area. The top right shows a breadcrumb path: Dashboard > Appointment > Appointment History. The bottom status bar shows system information like weather (30°C, Mostly clear) and date/time (12-06-2023, 23:53).

Appointment Id	Doctor Name	Date	Time	Fees	Current Status	Action
23008	Jay Shetty	2023-05-20	09:45:00	500	Active	<button>Cancel</button>
23010	Maulik Shah	2023-06-16	09:30:00	500	Active	<button>Cancel</button>

Hospital Management System

View Prescription

The screenshot shows a web browser window for the "Hospital Management System". The URL is `localhost/project/patient/view_prescription.php?pr_id=12`. The page displays a prescription for patient #12. On the left, there is a navigation sidebar with links: Dashboard, Appointment, Pharmacy, Laboratory, Bed Allocation, Bill, and Review. The main content area shows a placeholder image of a person holding a pill. To the right, patient details are listed: Name : Anjali Mehta, Prescribed by : Jay Shetty, Patient Category : OutPatient, and Disease : fever. Below this is a section titled "Prescription" with the text "fdsvdsfvds". The browser's address bar shows multiple tabs for the same site. The taskbar at the bottom indicates the date as 12-06-2023 and the time as 23:54.

Lab Report

The screenshot shows a web browser window for the "Hospital Management System". The URL is `localhost/project/patient/view_single_labreport.php?pid=20230005&lid=13`. The page displays a lab report for patient ID 20230005. The navigation sidebar is identical to the previous screenshot. The main content area shows a placeholder image of a hand holding a test tube. To the right, patient details are listed: Patient Id : 20230005, Patient Name : Anjali Mehta, Generated Date : 13/06/2023, and Disease : Appendicitis. Below this is a table with two columns: "Test" and "Result". The first row shows "Blood" in the Test column and "appendicitis positive" in the Result column. A notes section at the bottom contains the text "vhgvjhvjhbvvhvbjv". The browser's address bar shows multiple tabs for the same site. The taskbar at the bottom indicates the date as 13-06-2023 and the time as 00:41.

Hospital Management System

Bed Allocation

The screenshot shows the 'Appointment History' page under the 'Bed Allocation' module. The navigation sidebar on the left includes links for Dashboard, Appointment, Pharmacy, Laboratory, Bed Allocation (selected), All records, Bill, and Review. The main content area displays a table of appointment records:

#	Patient Name	Room	Bed	Allotment Time	Discharge Time
1	Anjali Mehta	2A - ICU	3	13/06/2023	Not discharged yet!!

At the bottom of the page, it says '2023 © CareConnect'. The system is running on a Windows 10 desktop, as indicated by the taskbar at the bottom.

Bill

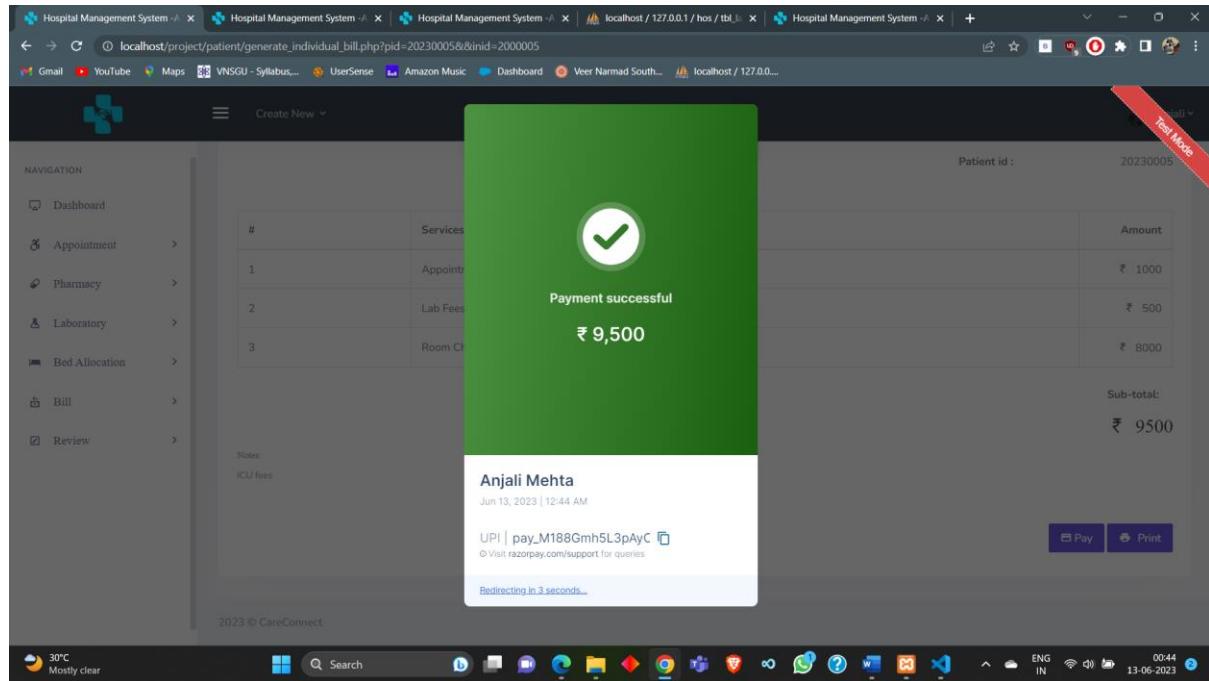
The screenshot shows the 'Anjali Mehta's Bill' page. The navigation sidebar is identical to the previous screen. The main content area displays a table of bill items:

#	Services	Amount
1	Appointment fees	₹ 1000
2	Lab Fees	₹ 500
3	Room Charges	₹ 8000

At the top right, it says 'Generated Date : 13/06/2023 - 12:06:50' and 'Payroll Status : Unpaid'. Below the table, it says 'Sub-total: ₹ 9500'. A note at the bottom left says 'Notes: ICU fees'. The system is running on a Windows 10 desktop, as indicated by the taskbar at the bottom.

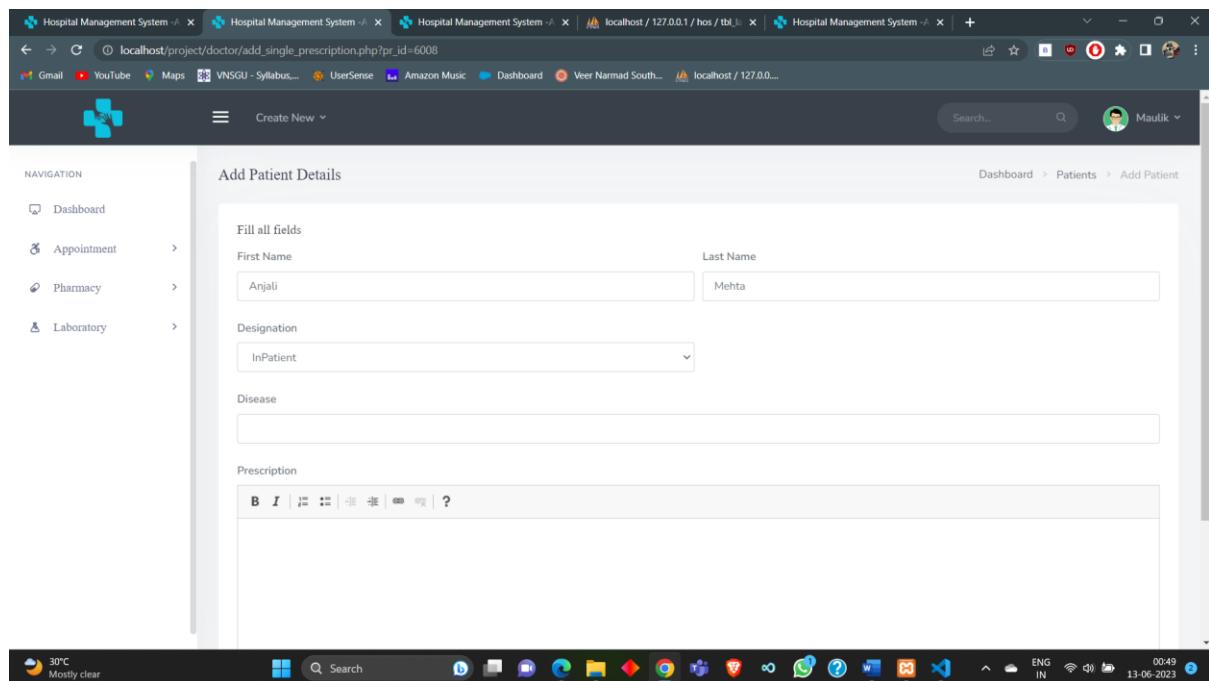
Hospital Management System

Payment



Doctor Module:

Add Prescription



Hospital Management System

Manage Prescriptions

The screenshot shows the 'Manage Prescriptions' page of the Hospital Management System. The left sidebar has a navigation menu with 'Dashboard', 'Appointment', 'Pharmacy' (selected), 'Add Prescriptions', 'Manage Prescriptions' (selected), and 'Laboratory'. The main content area is titled 'Appointment History' and contains a table with one row:

Prescription Id	Patient Name	Patient Type	Disease	Action
15	Anjali Mehta	InPatient	Appendicitis	View Update

At the bottom, there is a footer bar with weather information (30°C Mostly clear), a search bar, and system status indicators.

Update Account

The screenshot shows the 'Update Account' page for 'Maulik Shah's Profile'. The left sidebar has a navigation menu with 'Dashboard', 'Appointment', 'Pharmacy' (selected), 'Add Prescriptions', 'Manage Prescriptions' (selected), and 'Laboratory'. The main content area is titled 'Maulik Shah's Profile' and displays personal information:

Id : 6008
Name : Maulik Shah
Email : maulik@gmail.com
Address : Adajan
Mobile Number : 7894651203
Degree : MBBS
Department : Radiology

On the right, there are two buttons: 'Update Profile' and 'Change Password'. Below these are fields for 'PERSONAL INFO':

First Name: Maulik	Last Name: Shah
Email Address: maulik@gmail.com	Address: Adajan
Phone: 7894651203	Profile Picture: Choose File No file chosen

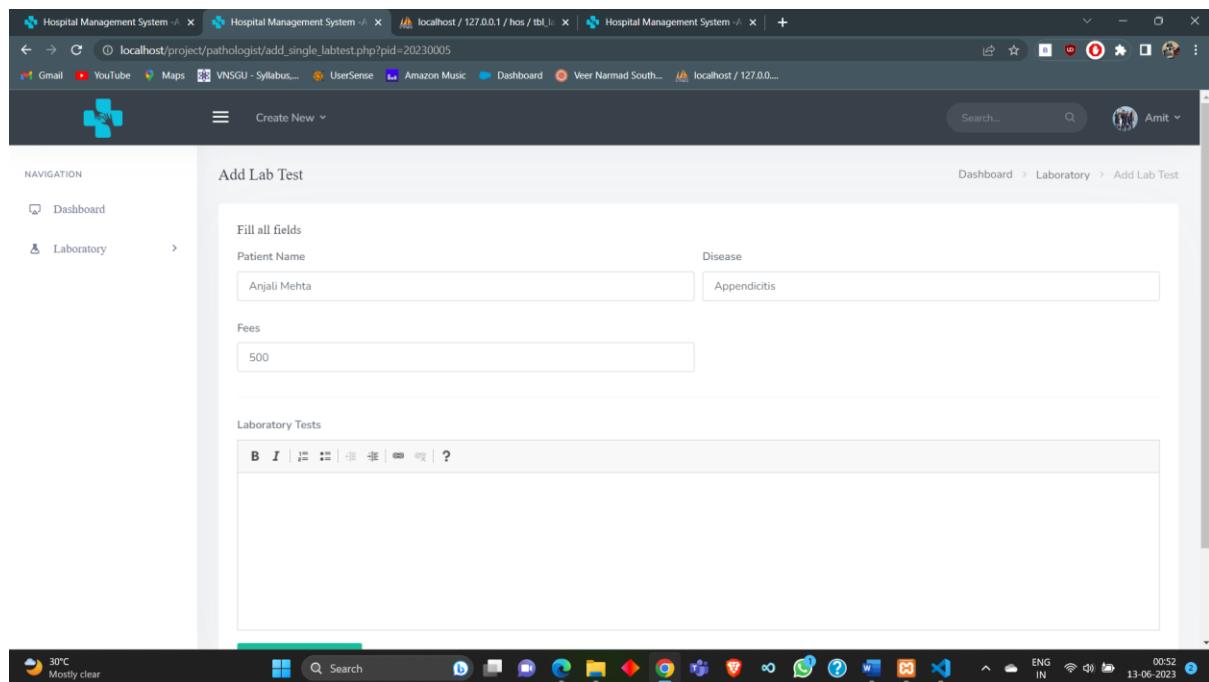
A 'Save' button is located at the bottom right.

At the bottom, there is a footer bar with weather information (30°C Mostly clear), a search bar, and system status indicators.

Hospital Management System

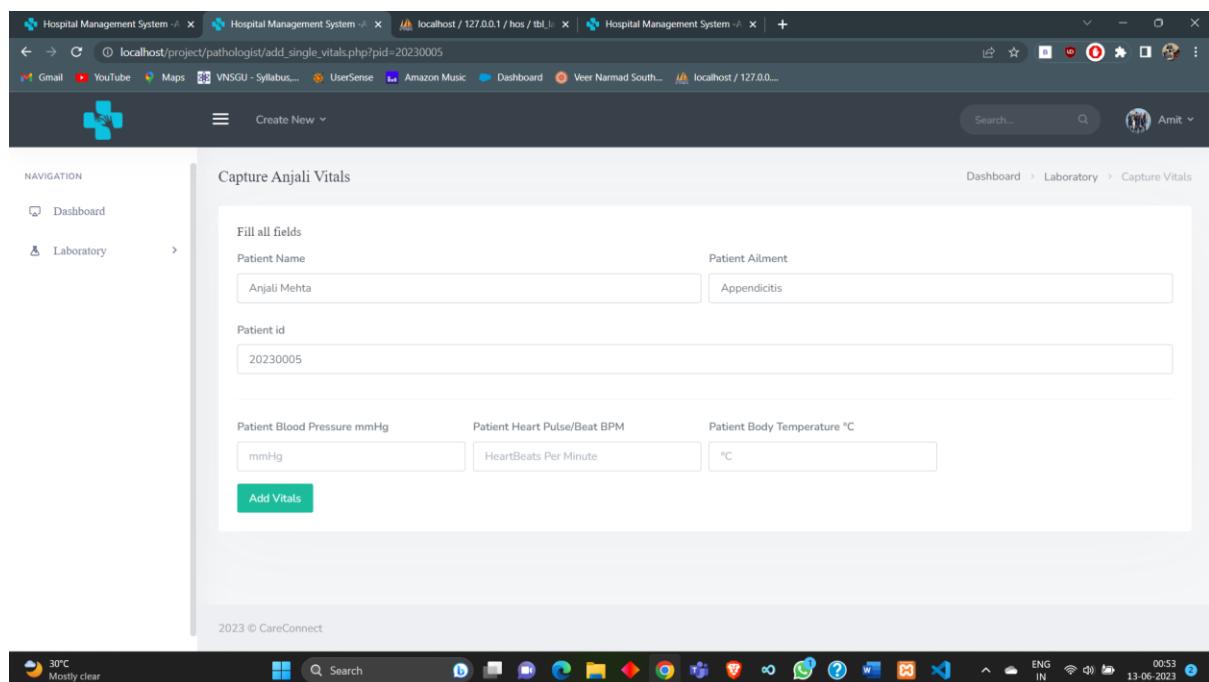
Pathologist Module:

Add lab test



The screenshot shows the 'Add Lab Test' page. The navigation bar at the top has tabs for 'Dashboard', 'Laboratory', and 'Add Lab Test'. The main form has fields for 'Patient Name' (Anjali Mehta), 'Disease' (Appendicitis), 'Fees' (500), and a 'Laboratory Tests' rich text area. The status bar at the bottom shows weather (30°C, Mostly clear) and system information (ENG IN, 00:52, 13-06-2023).

Add Vitals

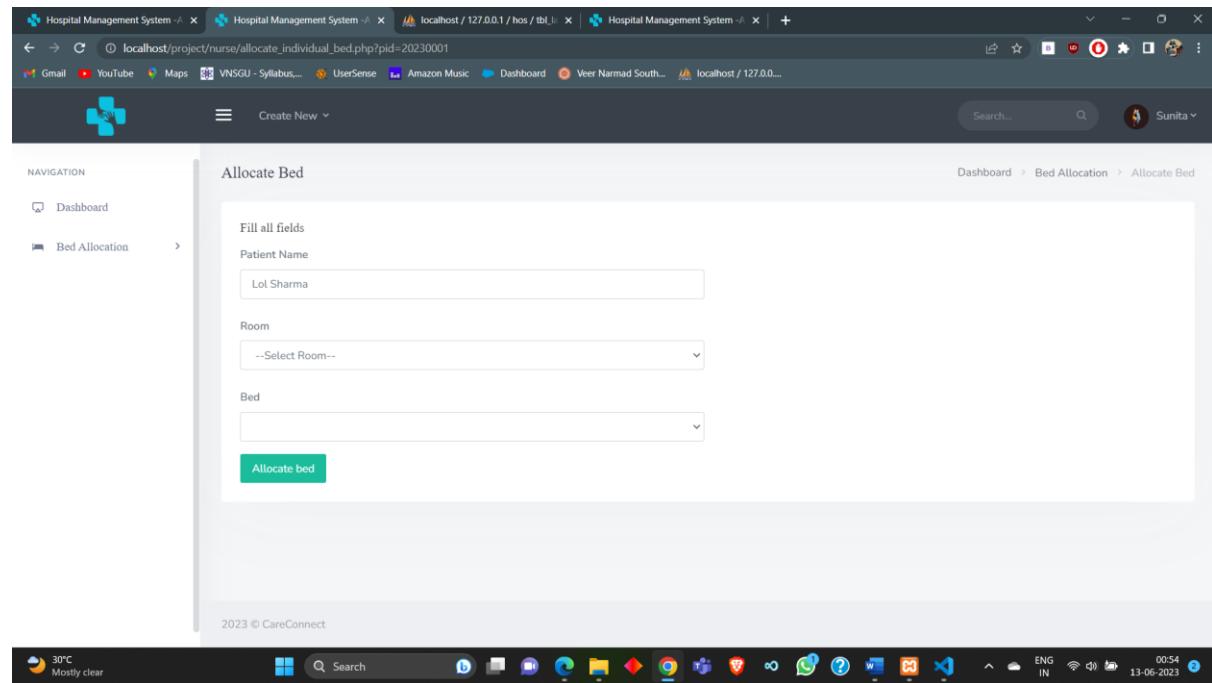


The screenshot shows the 'Capture Vitals' page. The navigation bar at the top has tabs for 'Dashboard', 'Laboratory', and 'Capture Vitals'. The main form has fields for 'Patient Name' (Anjali Mehta), 'Patient Ailment' (Appendicitis), 'Patient id' (20230005), and three input fields for 'Patient Blood Pressure mmHg', 'Patient Heart Pulse/Beat BPM', and 'Patient Body Temperature °C'. A green 'Add Vitals' button is at the bottom. The status bar at the bottom shows weather (30°C, Mostly clear) and system information (ENG IN, 00:53, 13-06-2023).

Hospital Management System

Nurse Module:

Allocate bed



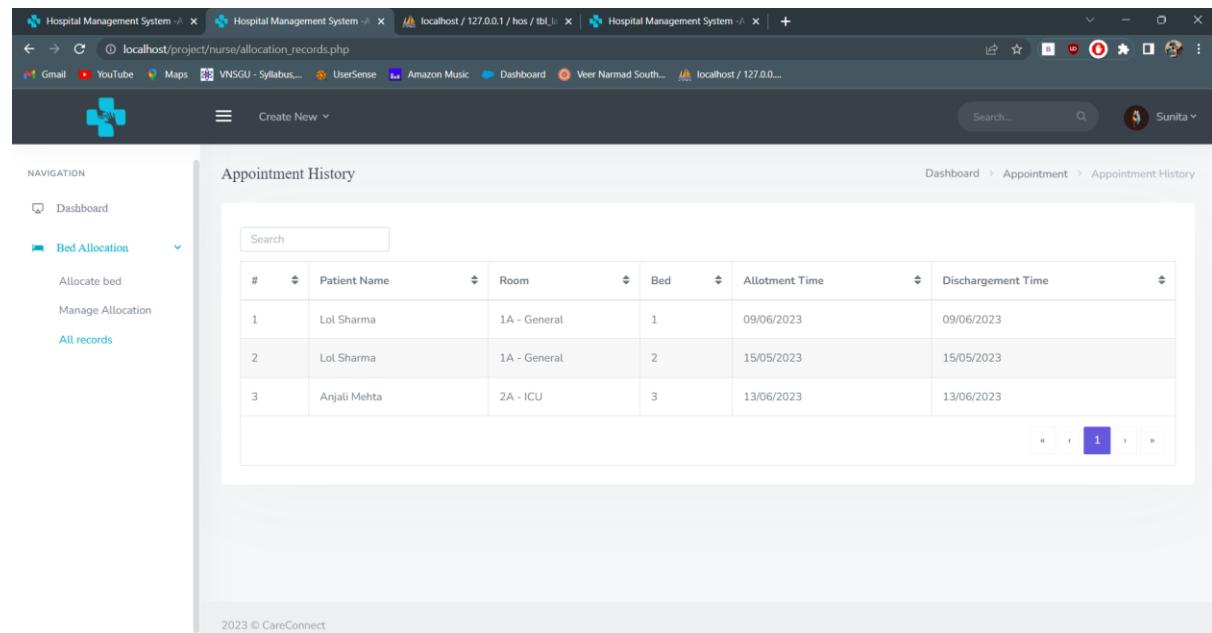
Allocate Bed

Patient Name
Lol Sharma

Room
--Select Room--

Bed
--Select Bed--

Allocate bed



Appointment History

#	Patient Name	Room	Bed	Allotment Time	Discharge Time
1	Lol Sharma	1A - General	1	09/06/2023	09/06/2023
2	Lol Sharma	1A - General	2	15/05/2023	15/05/2023
3	Anjali Mehta	2A - ICU	3	13/06/2023	13/06/2023

Hospital Management System

Accountant Module:

Add bill

The screenshot shows the 'Add Bill' page of the Hospital Management System. The navigation bar includes links for Dashboard and Bill. The main form requires filling all fields. It has sections for Patient Name (Lol Sharma), Disease (Malaria), Appointment Fees (500), Lab fees (1000), and a table of room allotments. The table lists two entries for Lol Sharma, showing Room 1A - General, Bed 2, Allotment Time 15/05/2023, and Discharge Time 15/05/2023. Another entry shows Room 1A - General, Bed 1, Allotment Time 09/06/2023, and Discharge Time 09/06/2023. Below the table, the total amount is calculated as 5000 (Appointment Fees) + 6500 (Lab fees). A rich text editor is provided for the description, which contains the text 'ICU fees'.

Update bill

The screenshot shows the 'Update Bill' page of the Hospital Management System. The navigation bar includes links for Dashboard, Bill, and Add Bill. The main form shows an 'Add Bill' section. It has fields for Patient Name (Anjali Mehta), Disease (Appendicitis), Total Amount (9500), Status (Paid), and a Description field containing the text 'ICU fees'. A green 'Update Bill' button is at the bottom.

Hospital Management System

Generate bill

The screenshot shows a web browser window displaying a bill generation page from the Hospital Management System. The page includes a navigation sidebar, a main content area with patient details, and a table of services with amounts. The system interface is clean and professional.

Generated Date: 09/06/2023 - 12:06:47
Payroll Status: paid
Invoice id: 201
Patient id: 20230001

#	Services	Amount
1	Appointment fees	₹ 500
2	Lab Fees	₹ 1000
3	Room Charges	₹ 4000

Sub-total: ₹ 5500

Notes:
This is a demo payroll description for test!!

The taskbar at the bottom of the screen shows various application icons and system status indicators, including weather (30°C Mostly clear), search, and system clock (01:00 13-06-2023).

7. Testing

Hospital Management System

Admin

Process	Result
Login	True
Add Department	True
Add Doctor	True
Add Patient	True
Add Staff	True
Manage Doctor	True
Manage Patient	True
Manage Staff	True
View Reports	True
View Records	True

Patient

Process	Result
Register	True
Login	True
Book Appointment	True
View Prescription	True
View Lab Reports	True
View Bed Allotment History	True
View Invoice	True
Pay Bill	True
Update Own Profile	True

Hospital Management System

Doctor

Process	Result
Login	True
Manage Appointments	True
Add Prescription	True
View Patient lab reports	True
Update Own Profile	True

Nurse

Process	Result
Login	True
Allocate bed	True
Bed History	True
Update Own Profile	True

Pathologist

Process	Result
Login	True
Add Lab Reports	True
Add Vitals	True
Manage lab reports	True
Update Own Profile	True

Accountant

Process	Result
Login	True
Add Invoice	True
Update Bill	True
Generate Invoice	True
Update Own Profile	True

8. Future Enhancements

- SMS Service and Whatsapp Service
- Enhance Security Measurements (Two Factor Authentication)
- Real-Time Bed Tracking
- Admin can assign the sender email to every user
- Suggest the doctors and medicines according to the description given by patient
- The UI can be made more interactive and attractive

9. References

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