

FINAL REPORT

HealthHub is a Hospital Database Management System developed to help hospitals overcome their day-to-day challenges: scattered patient records, difficulties in appointment scheduling, and billing and resource management issues. These usually delay treatment for patients, increase wait times, and raise extra workload for the staff. HealthHub integrates one place for everything, from maintaining EHRs to appointment scheduling, billing, insurance processing, and resource management. HealthHub reduces mistakes, helps with better decision-making, and lets hospitals handle both routine and emergencies faster by keeping all patient and hospital data in one place. This would let doctors find out all information about a patient in an instant, administrators monitor resources, and accounting staff process payments without problems. Designed with health regulations in mind, HealthHub ensures that data is kept secure, and reliable, and has improved the working way of a hospital. With automation, real-time updates, and safe technology combined, HealthHub creates more efficiency in managing a hospital, focusing on what matters most: excellent patient care. This all-inclusive system reduces errors, saves time, and assists hospitals in providing better care.

Introduction: Managing patient data is one big challenge for hospitals. Many times, the information is scattered at every other place, and coordinating between doctors, nurses, and staff is a problem. This leads to delays in admitting patients, longer waiting queues, and errors in billing. Even emergency services can be delayed due to improper communication and deployment of resources. To add to that, hospitals are struggling with how to handle old systems as they work towards adopting new technologies that would best facilitate their care.

This is quite serious, as healthcare is something everybody depends on deeply. When hospitals are not able to manage patient data, it directly influences the quality of treatment patients receive. These could be the reasons that make healthcare more affordable, faster, and better for all. Our project, HealthHub, is a hospital management system meant to solve these challenges. It creates one platform where all the data about a hospital is stored and controlled in one place. With HealthHub, hospitals can efficiently manage patient records, handle appointment scheduling, manage billing, and do resource allocation.

Project Design:

1. Patient Registration:

- A patient enters their personal information on the website, creating a profile.
- This information is stored securely in the database under the “Patient Information” module.

2. Appointment Booking:

- The patient selects a doctor using the “Doctors Information” section.
- The system checks the doctor’s availability and confirms the appointment.

3. Doctor Interaction:

- On the scheduled date, the doctor logs in to view the patient’s records and updates medical history, diagnoses, and treatment plans.

4. Lab Tests and Results:

- If required, the doctor schedules a lab test.
- Lab technicians update the system with test results, which are accessible to both the doctor and patient.

5. Billing and Insurance Claims:

- Once the consultation or tests are completed, a bill is generated.
- If the patient has insurance, the claim is processed directly from the system.

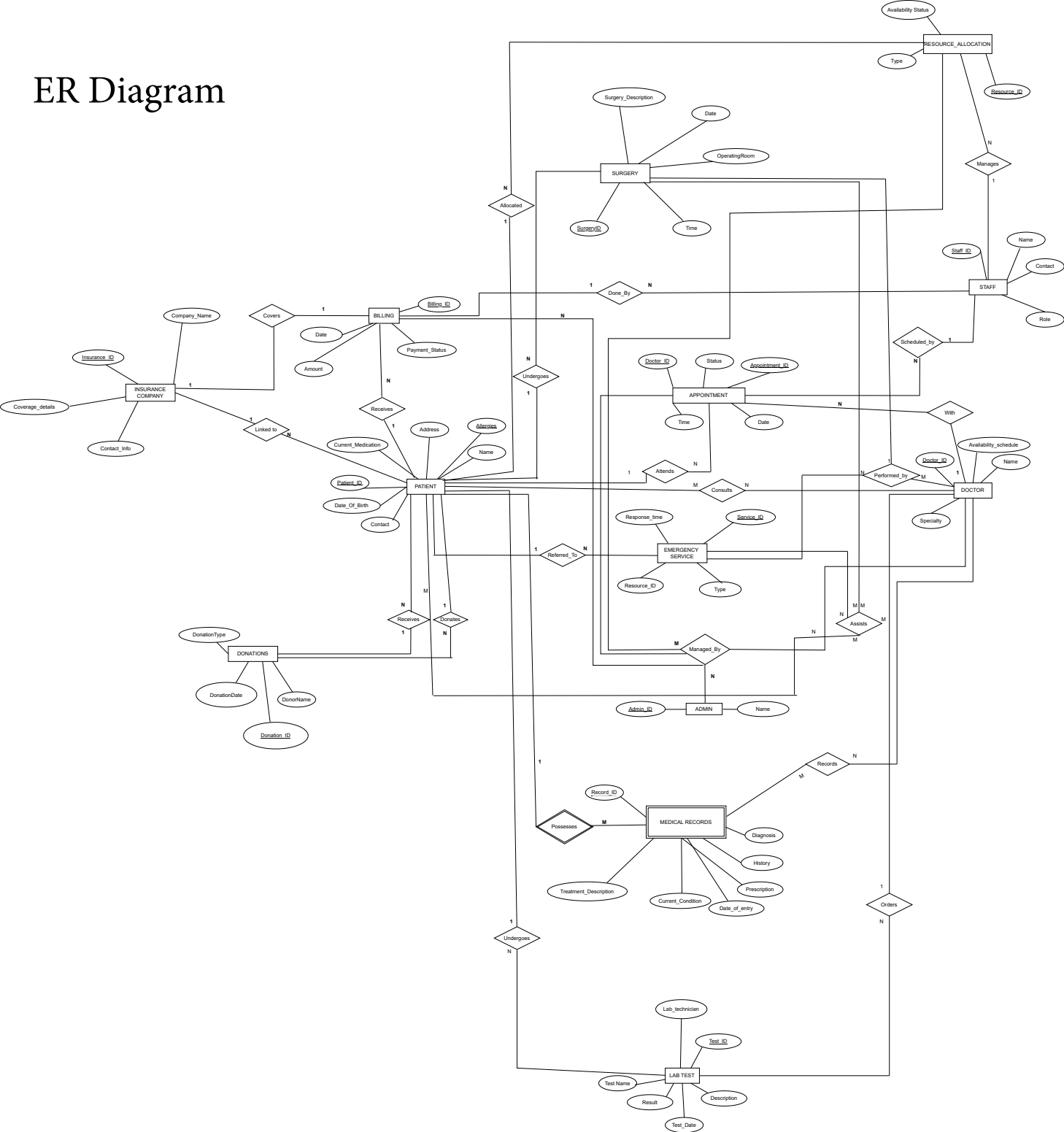
6. Resource Management and Emergencies:

- During surgeries or emergencies, resources like operating rooms and staff are allocated using the system.
- Logs are maintained for auditing and tracking purposes.

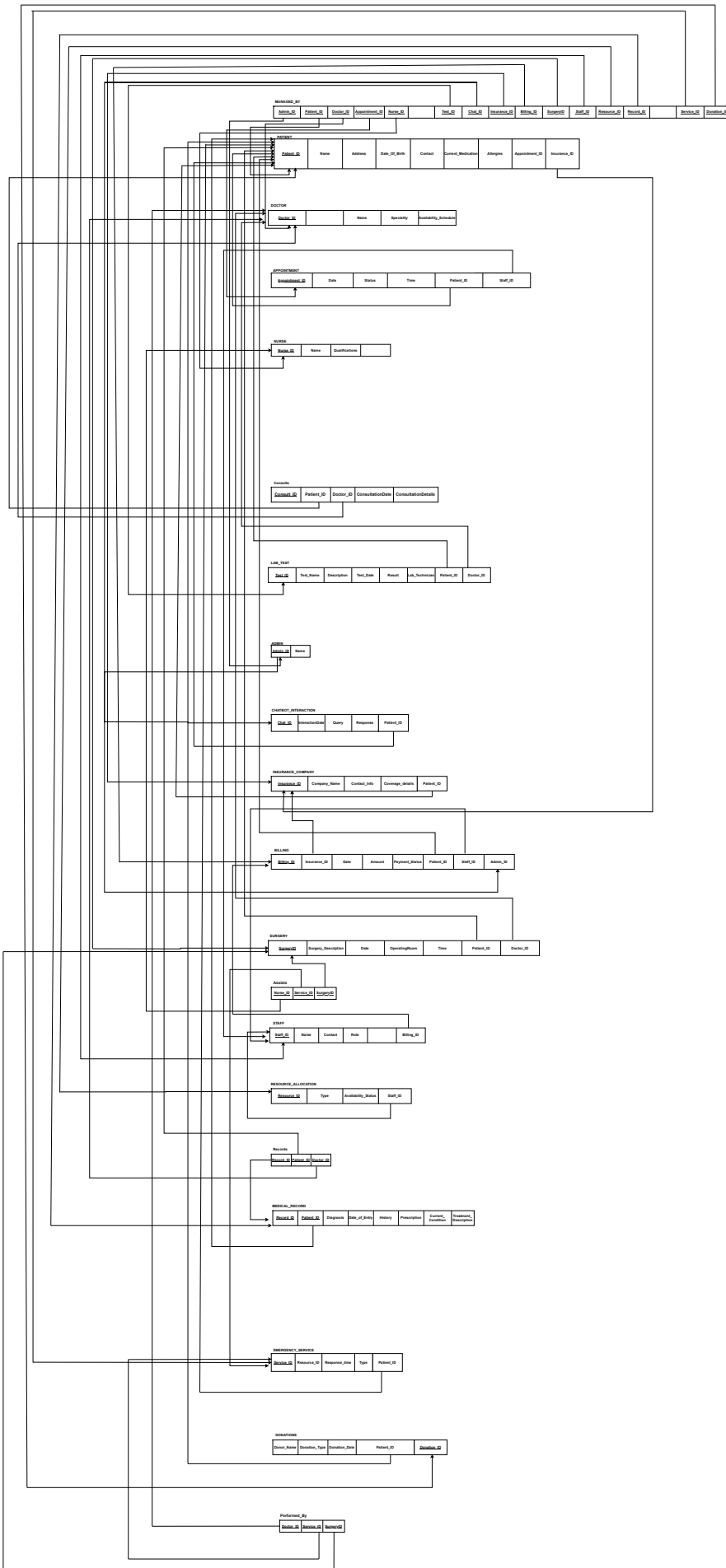
7. Donation Management:

- If a patient or donor logs a donation, the system records the details and matches it to a recipient if necessary.

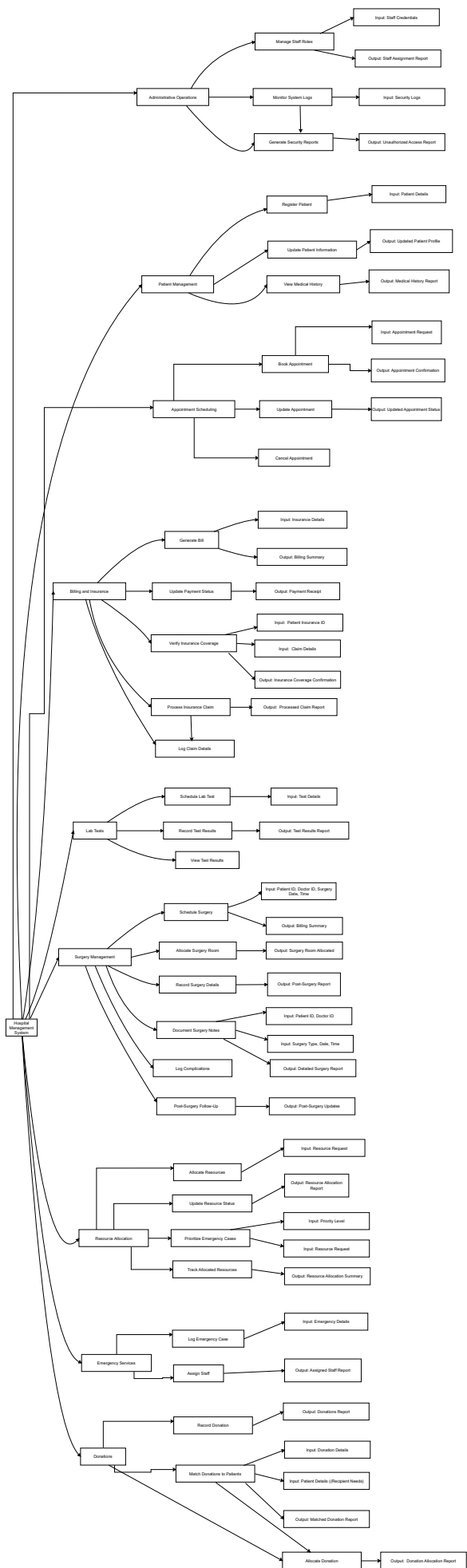
ER Diagram



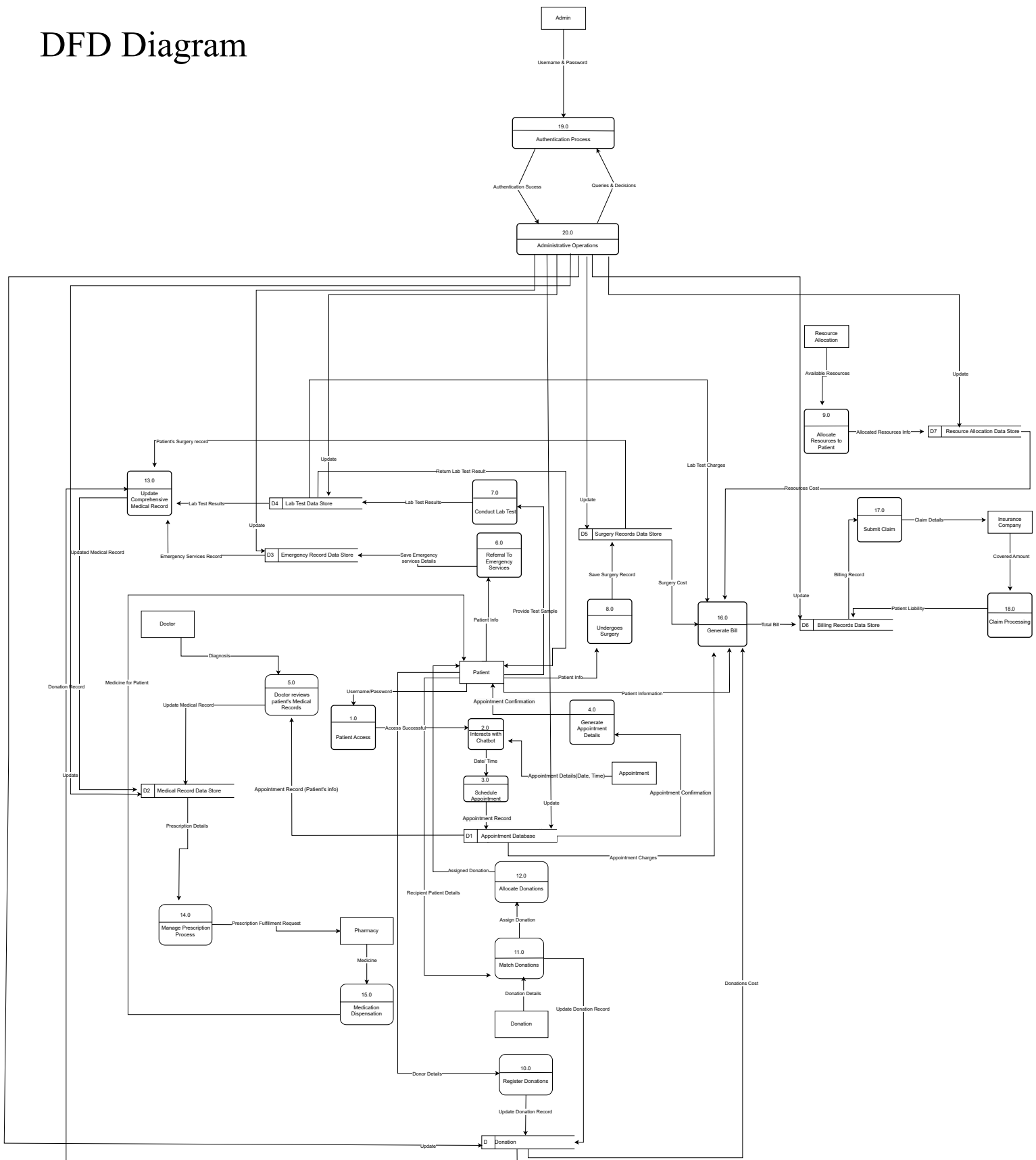
RM Diagram



HIPO Diagram



DFD Diagram



SQL QUERIES

Lab Test:

```
CREATE TABLE Lab_Tests (  
    TestID INT GENERATED ALWAYS AS IDENTITY PRIMARY KEY, -- Auto-incrementing Test ID  
    PatientID INT NOT NULL, -- Reference to Patients table  
    DoctorID INT NOT NULL, -- Reference to Doctors table  
    TestType VARCHAR(255) NOT NULL, -- Type of test (e.g., Blood Test, X-Ray)  
    TestDate DATE DEFAULT SYSDATE, -- Date of the test  
    Results CLOB, -- Test results  
    Status VARCHAR(50) DEFAULT 'Pending', -- Test status (Pending/Completed)  
    FOREIGN KEY (PatientID) REFERENCES Patients(PATIENT_ID),  
    FOREIGN KEY (DoctorID) REFERENCES Doctors(DOCTOR_ID)  
);
```

Emergency Service:

```
SELECT  
    es.Service_ID,  
    p.Name AS Patient_Name,  
    p.Contact AS Patient_Contact,  
    es.Type AS Emergency_Type,  
    d.Name AS Doctor_Name,  
    r.Type AS Resource_Type,  
    es.Response_Time,  
    es.Date_of_Entry  
FROM  
    YOUR_SCHEMA.EMERGENCY_SERVICE es  
JOIN  
    YOUR_SCHEMA.PATIENT p ON es.Patient_ID = p.Patient_ID  
JOIN  
    YOUR_SCHEMA.DOCTOR d ON es.Doctor_ID = d.Doctor_ID  
JOIN  
    YOUR_SCHEMA.RESOURCE_ALLOCATION r ON es.Resource_ID = r.Resource_ID  
WHERE  
    es.Date_of_Entry >= SYSDATE - 30  
ORDER BY  
    es.Date_of_Entry DESC;
```

Medical Record:

```
CREATE TABLE Medical_Records (  
    PatientID INT NOT NULL, -- Reference to the patient  
    DoctorID INT NOT NULL, -- Reference to the doctor  
    Diagnosis VARCHAR(255), -- Diagnosis information  
    Treatment CLOB, -- Details of the treatment  
    Date_of_Record DATE DEFAULT SYSDATE, -- Automatically use the current date  
    Notes CLOB, -- Additional notes (optional)  
    Blood_Pressure VARCHAR(10), -- Example: 120/80  
    Heart_Rate INT, -- Heartbeats per minute  
    Temperature DECIMAL(5,2), -- Body temperature (e.g., 98.6)  
    Oxygen_Saturation DECIMAL(5,2), -- Oxygen level in percentage  
    PRIMARY KEY (PatientID, Date_of_Record) -- Ensures one record per patient per day  
);
```

Log Donation:

```
CREATE TABLE DONATIONS (  
    DONATION_ID NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY, -- Unique ID for each  
    DONOR_NAME VARCHAR2(100) NOT NULL, -- Name of the donor  
    DONATION_TYPE VARCHAR2(50) NOT NULL, -- Type of donation (e.g., Blood, Money, Equipment)  
    DONATION_DATE DATE DEFAULT SYSDATE, -- Date of the donation  
    PATIENT_ID NUMBER, -- Optional: Patient ID for specific patient-related donations  
    AMOUNT NUMBER -- Amount donated (for monetary donations)  
);
```

Billing:

```
CREATE TABLE Billing (  
    Billing_ID NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY, -- Unique Billing ID  
    Patient_ID NUMBER NOT NULL, -- Foreign key to Patient table  
    Service_Type VARCHAR(50) NOT NULL, -- Foreign key to Charges table  
    Insurance_ID NUMBER, -- Foreign key to Insurance_Company table  
    Billing_Date DATE DEFAULT SYSDATE, -- Date of the billing record  
    Amount NUMBER NOT NULL, -- Amount associated with the billing  
    Payment_Status VARCHAR2(20) DEFAULT 'Pending', -- Payment status (e.g., Pending, Paid)  
    CONSTRAINT FK_Patient_ID FOREIGN KEY (Patient_ID) REFERENCES Patient (Patient_ID), -- Links to Patient table  
    CONSTRAINT FK_Service_Type FOREIGN KEY (Service_Type) REFERENCES Charges (Service_Type), -- Links to Charges table  
    CONSTRAINT FK_Insurance_ID FOREIGN KEY (Insurance_ID) REFERENCES Insurance_Company (Insurance_ID) -- Links to Insurance_Company table  
);
```

Insurance Company:

```
CREATE TABLE Insurance_Company (  
    Insurance_ID NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY, -- Unique identifier for insurance company  
    Company_Name VARCHAR2(100) NOT NULL, -- Name of the insurance company  
    Coverage_Amount NUMBER(10, 2) NOT NULL, -- Coverage amount provided by the insurance  
    Contact_Info VARCHAR2(150) -- Contact information (phone/email)  
);
```

Surgery:

```
CREATE TABLE Surgery (  
    Patient_ID INT NOT NULL, -- Foreign key referencing Patient table  
    Doctor_ID INT NOT NULL, -- Foreign key referencing Doctor table  
    Surgery_ID INT GENERATED ALWAYS AS IDENTITY PRIMARY KEY, -- Unique identifier for the surgery  
    Surgery_Description VARCHAR(255) NOT NULL, -- Description of the surgery  
  
    Surgery_Date DATE NOT NULL, -- Date of the surgery  
    Surgery_Time TIMESTAMP NOT NULL, -- Date and time of the surgery  
    Operating_Room VARCHAR(50) NOT NULL, -- Operating room number or name  
  
    CONSTRAINT FK_Patient FOREIGN KEY (Patient_ID) REFERENCES Patient(Patient_ID),  
    CONSTRAINT FK_Doctor FOREIGN KEY (Doctor_ID) REFERENCES DOCTORS(DOCTOR_ID)  
);
```


Appointments:

```
CREATE TABLE APPOINTMENTS (  
    APPOINTMENT_ID NUMBER PRIMARY KEY,  
    PATIENT_ID NUMBER,  
    DOCTOR_ID NUMBER,  
    APPOINTMENT_DATE DATE,  
    APPOINTMENT_TIME VARCHAR2(50),  
    STATUS VARCHAR2(50),  
    FOREIGN KEY (PATIENT_ID) REFERENCES PATIENTS (PATIENT_ID),  
    FOREIGN KEY (DOCTOR_ID) REFERENCES DOCTORS (DOCTOR_ID)  
);
```

Patient:

```
CREATE TABLE Patient (  
    Patient_ID NUMBER PRIMARY KEY,           -- Primary Key for identifying patients  
    Patient_Name VARCHAR2(255) NOT NULL,      -- Patient's name, not null  
    Date_of_Birth DATE NOT NULL,              -- Date of birth, not null  
    Contact_Number VARCHAR2(15),              -- Contact number, can be null  
    Email VARCHAR2(255),                      -- Email address, can be null  
    Address VARCHAR2(500)                     -- Address, can be null  
);
```

Doctor:

```
CREATE TABLE DOCTORS (  
    DOCTOR_ID NUMBER PRIMARY KEY,  
    NAME VARCHAR2(100) NOT NULL,  
    SPECIALTY VARCHAR2(100),  
    AVAILABILITY_SCHEDULE VARCHAR2(255)  
);  
  
INSERT INTO DOCTORS (DOCTOR_ID, NAME, SPECIALTY, AVAILABILITY_SCHEDULE)  
VALUES (1, 'Dr. John Smith', 'Cardiologist', 'Mon-Fri 9:00 AM - 5:00 PM');  
  
INSERT INTO DOCTORS (DOCTOR_ID, NAME, SPECIALTY, AVAILABILITY_SCHEDULE)  
VALUES (2, 'Dr. Emily Davis', 'Dermatologist', 'Mon, Wed, Fri 10:00 AM - 2:00 PM');  
  
INSERT INTO DOCTORS (DOCTOR_ID, NAME, SPECIALTY, AVAILABILITY_SCHEDULE)  
VALUES (3, 'Dr. Robert Lee', 'Orthopedic Surgeon', 'Tue-Thu 8:00 AM - 12:00 PM');
```

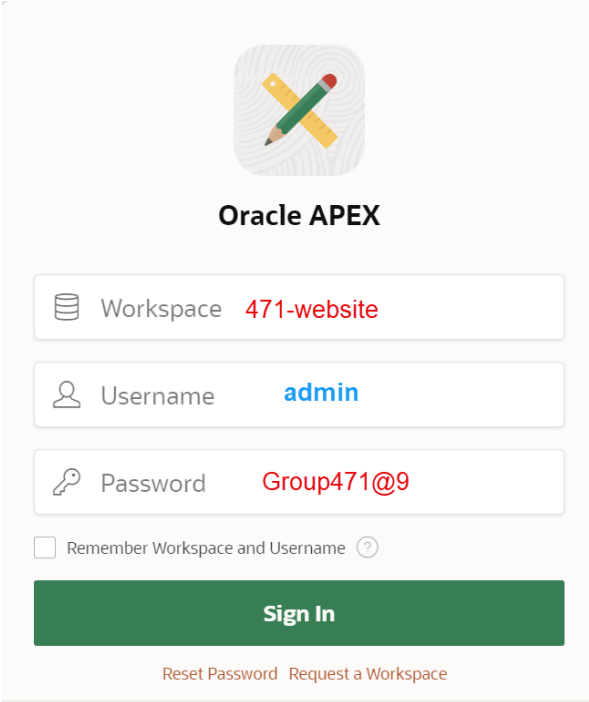
HEALTH HUB

Manual

Steps to Start Using Oracle APEX Starting from the Login Page:

1. Access the Login Page:

- Open your web browser and navigate to the Oracle APEX login URL provided by your administrator (or hosted service).
- You should see the login page similar to the one in the uploaded screenshot.



Oracle APEX

Workspace 471-website

Username admin

Password Group471@9

☐ Remember Workspace and Username ?

Sign In

[Reset Password](#) [Request a Workspace](#)

2. Enter Workspace Information:

- Locate the **Workspace** field.
- Enter the workspace name provided to you, in this case, 471-website.

3. Enter Your Username:

- In the **Username** field, enter your username. For example, admin as shown.

4. Enter Your Password:

- In the **Password** field, enter the password provided to you. For example, Group471@9 as displayed.

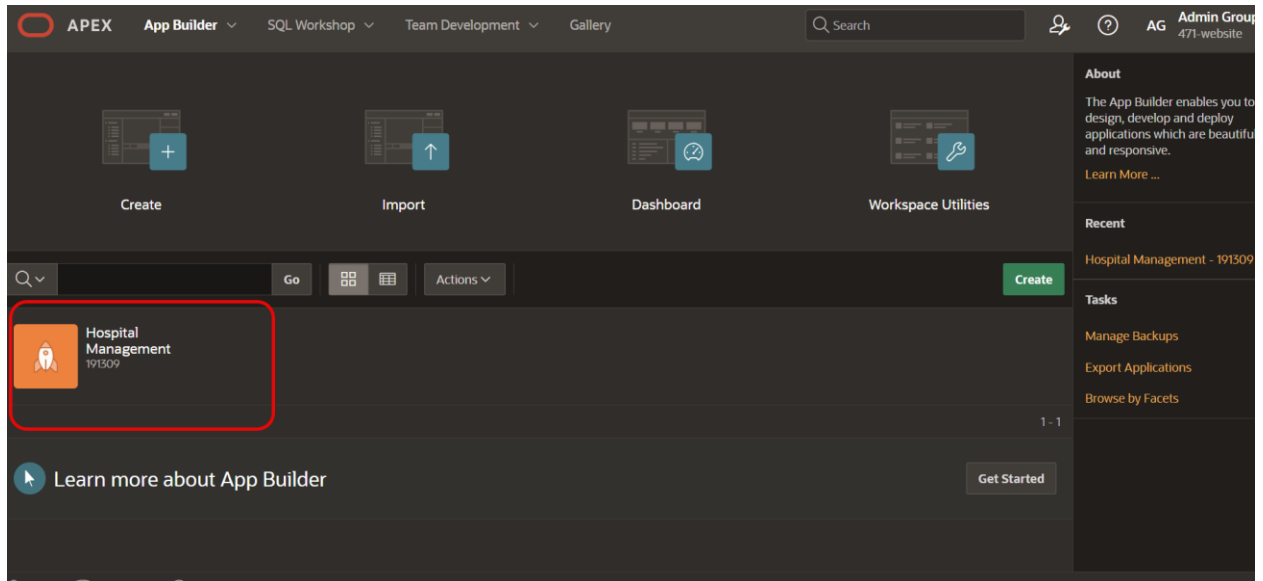
5. Optional: Remember Workspace and Username:

- Check the box labeled "**Remember Workspace and Username**" if you are using a secure, personal device and want the browser to save your credentials.

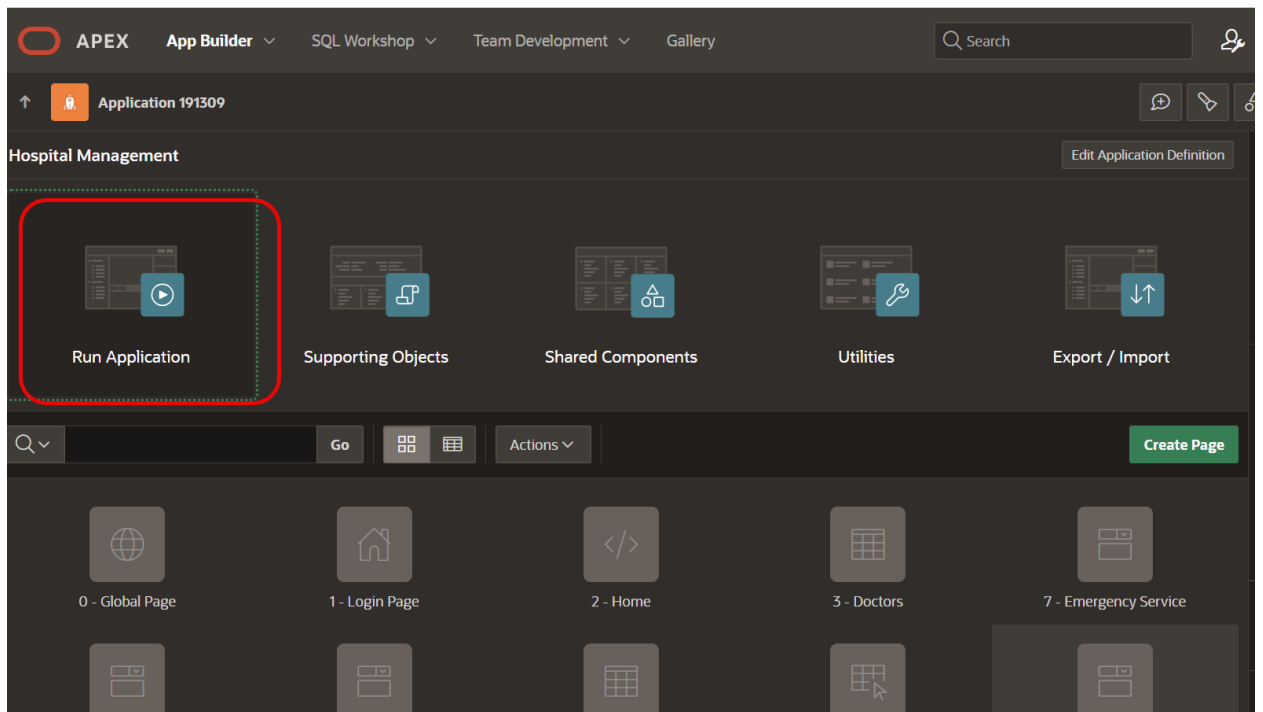
6. Click "Sign In":

- Press the **Sign In** button. If the credentials are correct, you will be logged into Oracle APEX

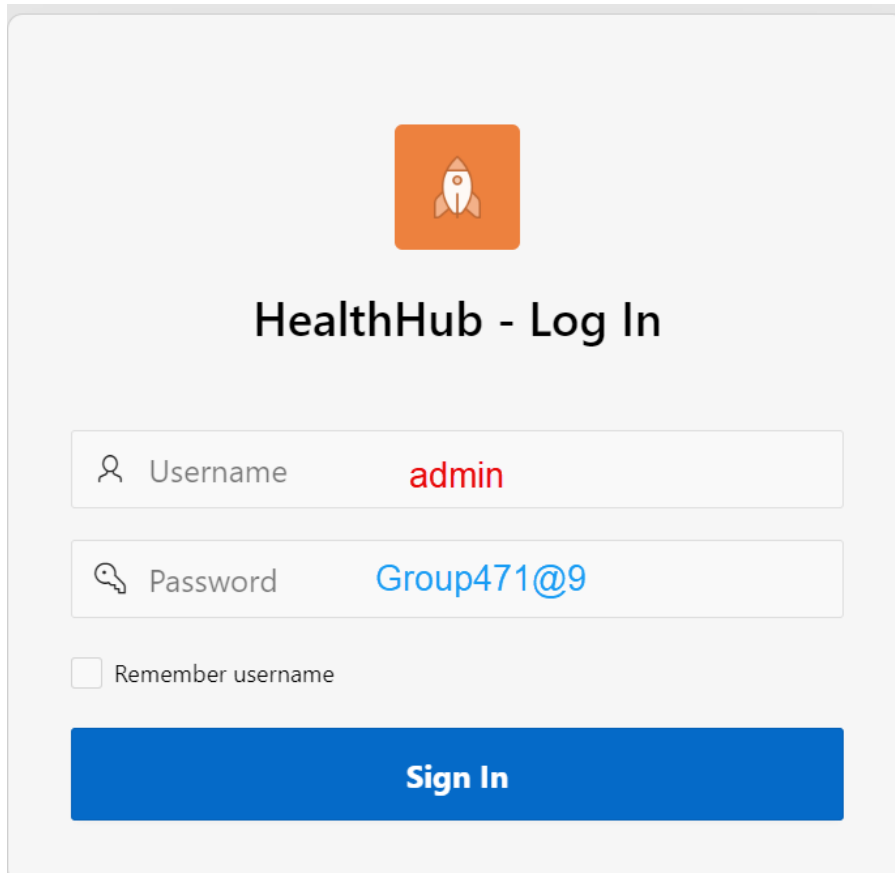
7. Click on the 'Hospital Management' icon to open the application.



8. Click on 'Run Application' to launch and preview the Hospital Management application



9. Enter the username admin and the password Group471@9, then click 'Sign In' to access the HealthHub application



The image shows a login form for HealthHub. At the top is an orange square icon with a white rocket. Below it is the title "HealthHub - Log In". The form has two input fields: "Username" with the value "admin" in red, and "Password" with the value "Group471@9" in blue. There is a checkbox labeled "Remember username" which is unchecked. At the bottom is a blue button labeled "Sign In".

10. After logging in, you will be redirected to the HealthHub dashboard.



11. Click on the menu icon on the top left corner of the screen to expand the navigation menu, and then select the desired module, such as 'Book Appointment' or 'Lab Tests,' to proceed with its functionality.



Doctor's Information

1. Select "Doctors Information":

From the expanded menu, click on "**Doctors Information**" (first option in the list).

View Doctors Details:

You will be redirected to the **Doctors Information** page, where you can:

View a list of all doctors.

Search for a doctor by name, specialty, or department.

Hospital Management

admin

Doctors Information

Patient Registration

Book Appointment

Medical Service Charges

Emergency Service

Surgeries

Generate Bills

Insurance Claims

Log Donation


Lab Tests

Resource Allocation

Medical Records

Doctors

Name ↑	Specialty	Availability Schedule
Dr. John Smith	Cardiologist	Mon-Fri 9:00 AM - 5:00 PM
Dr. Juan Dela Cruz	Orthopedic Surgeon	Tue-Thu 8:00 AM - 12:00 PM
Dr. Maria Santos	Dermatologist	Mon, Wed, Fri 10:00 AM - 2:00 PM



PATIENT REGISTRATION

1. On the 'Patient Registration' page, you can register new patients by filling in the required details such as Patient ID (Alberta Health Number, 4 digits), Name, Date of Birth, Contact Number, Email, and Address. Once all fields are completed, click the 'Create' button to save the patient's information.

The screenshot shows the 'Patient Registration' form within the 'Hospital Management' application. The form includes input fields for Patient ID (Alberta Health Number, 4 digits), Patient Name, Date Of Birth, Contact Number, Email, and Address. A 'Cancel' button is located at the bottom left, and a 'Create' button is at the bottom right. The left sidebar contains a menu with options: Doctors Information, Patient Registration (selected), Book Appointment, Medical Service Charges, Emergency Service, Surgeries, Generate Bills, Insurance Claims, Log Donation, Lab Tests, Resource Allocation, and Medical Records. The top right shows the user 'admin'.

2. After filling out the Patient Registration form, click the 'Create' button to save the patient's details. The newly added patient will appear in the table below, along with their name, date of birth, contact number, email, and address. You can use the table to view, search, edit, or manage patient records.

The screenshot shows the 'Patient Registration' page after a successful registration. A green notification banner at the top right says 'Row created.' The 'Create' button on the form is highlighted with a red box. Below the form is a table of patient records, also highlighted with a red box. The table has columns for Patient Name, Date Of Birth, Contact Number, Email, and Address. The first row shows 'Jane Doe' with a date of birth of 12/2/2009, contact number 1234567890, email janedoe@gmail.com, and address 456 Maple Street, Calgary. The second row shows 'Shrey' with a date of birth of 12/1/2009, contact number 1543520023, email shrey279@gmail.com, and address 608 9th Street SW. The table indicates '1 rows selected' and 'Total 2'.

	Patient Name	Date Of Birth	Contact Number	Email	Address
<input checked="" type="checkbox"/>	Jane Doe	12/2/2009	1234567890	janedoe@gmail.com	456 Maple Street, Calgary
<input type="checkbox"/>	Shrey	12/1/2009	1543520023	shrey279@gmail.com	608 9th Street SW

To manage patient records:

- **Edit a Record:** Select a patient row, click the **'Edit'** button, make the necessary changes in the fields, and then click **'Save'** to update the information.
- **Delete a Record:** Use the **'Actions'** menu, choose **'Delete Row'**, and confirm to remove the selected patient's record from the table

The screenshot displays the 'Hospital Management' application interface. On the left is a sidebar with navigation options: Doctors Information, Patient Registration (selected), Book Appointment, Medical Service Charges, Emergency Service, Surgeries, Generate Bills, Insurance Claims, Log Donation, Lab Tests, Resource Allocation, and Medical Records. The main area is titled 'Patient Registration' and contains a form for adding a new patient with fields for Address, Date Of Birth, Contact Number, Email, and a Create button. Below the form is a table of existing patient records. A context menu is open over the first row (Jane Doe), showing options: Single Row View, Add Row, Duplicate Row, Delete Row (highlighted with a red box), Refresh Row, and Revert Changes. The table has columns: Date Of Birth, Contact Number, Email, and Address. The first row is selected, and the 'Edit' and 'Save' buttons are highlighted with red boxes. A green notification banner at the top right says 'Row created.'.

		Date Of Birth	Contact Number	Email	Address	
<input checked="" type="checkbox"/>		Jane Doe	12/2/2009	1234567890	janedoe@gmail.com	456 Maple Street, Calgary
<input type="checkbox"/>		Shrey	12/1/2009	1543520023	shrey279@gmail.com	608 9th Street SW

1 rows selected Total 2

Book an Appointment:

1. Select Patient Name:

- Open the **Patient Name** dropdown.
- Choose the patient for the appointment, such as:
 - **Jane Doe**
 - **Shrey**

2. Select Doctor Name:

- Open the **Doctor Name** dropdown.
- Choose the doctor you want to book an appointment with:
 - **Dr. John Smith (Cardiologist)**
 - **Dr. Juan Dela Cruz (Orthopedic Surgeon)**
 - **Dr. Maria Santos (Dermatologist)**

3. Choose Appointment Date:

- Click on the **Appointment Date** field to open the calendar.
- Select the desired date for the appointment.

4. Choose Appointment Time:

- Open the **Appointment Time** dropdown.
- Pick a time slot that works for the appointment, such as:
 - **08:00 AM**
 - **08:30 AM**
 - **09:00 AM**
 - **09:30 AM**
 - **10:00 AM**

5. Set Appointment Status:

- Open the **Status** dropdown.
- Choose the status of the appointment:
 - **Confirmed:** If the appointment is finalized.
 - **Pending:** If the appointment requires confirmation.

6. Save the Appointment:

- After completing all fields, click the **Create** button to save the appointment.
- The newly booked appointment will be displayed in the table below for reference and management.

Hospital Management admin

Doctors Information

Patient Registration

Book Appointment

Medical Service Charges

Emergency Service

Surgeries

Generate Bills

Insurance Claims

Log Donation

Lab Tests

Resource Allocation

Medical Records

Book Appointment

Book Appointment

Patient Name

Jane Doe

Shrey

Appointment Date

Appointment Time

Status

Cancel Create

Hospital Management admin

Doctors Information

Patient Registration

Book Appointment

Medical Service Charges

Emergency Service

Surgeries

Generate Bills

Insurance Claims

Log Donation

Lab Tests

Resource Allocation

Medical Records

Book Appointment

Book Appointment

Patient Name

Doctor Name

Dr. John Smith

Dr. Juan Dela Cruz

Dr. Maria Santos

Status

Cancel Create

Hospital Management

Doctors Information

Patient Registration

Book Appointment

Medical Service Charges

Emergency Service

Surgeries

Generate Bills

Insurance Claims

Log Donation

Lab Tests

Resource Allocation

Medical Records

December 2024

Sun

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Today

Appointment Date

Appointment Time

Status

Hospital Management

Doctors Information

Patient Registration

Book Appointment

Medical Service Charges

Emergency Service

Surgeries

Generate Bills

Insurance Claims

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Lab Tests

Resource Allocation

Medical Records

Book Appointment

08:00 AM

08:30 AM

09:00 AM

09:30 AM

10:00 AM

10:30 AM

11:00 AM

Appointment Time

Status

Cancel

Hospital Management

Doctors Information

Patient Registration

Book Appointment

Medical Service Charges

Emergency Service

Surgeries

Generate Bills

Insurance Claims

Log Donation

Lab Tests

Resource Allocation

Medical Records

Book Appointment

Appointment Time

Status

Confirmed

Pending

Search: All Text Columns

Go

Actions

Edit

Save

Add Row

		Patient Id	Doctor Id	Appointment Date	Appointment Time	Status
<input checked="" type="checkbox"/>						

1 rows selected

Release 1.0

App 181209

Page 28

Session

Debug

Quick Edit

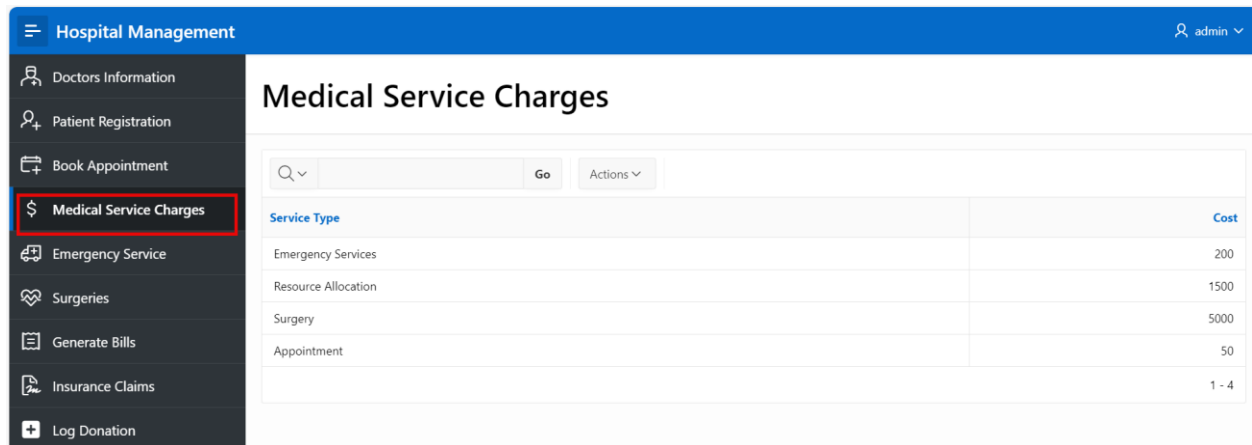
Customize

Medical Service Charges

The **Medical Service Charges** page displays the list of service types along with their associated costs. This allows administrators or users to view and manage the pricing for various medical services offered.

Details on the Page:

- **Service Type:** Lists the type of medical services provided (e.g., Emergency Services, Surgery, Appointments).
- **Cost:** Displays the cost associated with each service type (e.g., 200 for Emergency Services, 5000 for Surgery).



Service Type	Cost
Emergency Services	200
Resource Allocation	1500
Surgery	5000
Appointment	50

Emergency Service

The **Emergency Service** page allows users to log details of emergency cases and assign relevant patient and doctor information.

Fields in the Form:

1. Patient ID:

- A dropdown to select the **Patient ID** from the list of registered patients.
- This ensures the emergency case is linked to an existing patient.

2. Emergency Type:

- A text field to specify the type of emergency (e.g., Cardiac Arrest, Accident, etc.).

3. Doctor ID:

- A dropdown to select the **Doctor ID** from the list of available doctors.

- This field assigns the case to a specific doctor.

4. Date of Entry:

- A date picker to log the date of the emergency service entry.

How to Use the Form:

1. Select Patient:

- Use the **Patient ID** dropdown to select the patient involved in the emergency.

2. Specify Emergency Type:

- Enter the nature of the emergency in the **Emergency Type** field (e.g., "Fracture" or "Severe Allergic Reaction").

3. Assign Doctor:

- Choose the **Doctor ID** from the dropdown to assign a doctor to the case.

4. Set Date of Entry:

- Use the date picker to specify the date of the emergency.

5. Save the Record:

- Click the **Create** button to save the details of the emergency service.

Post-Submission Actions:

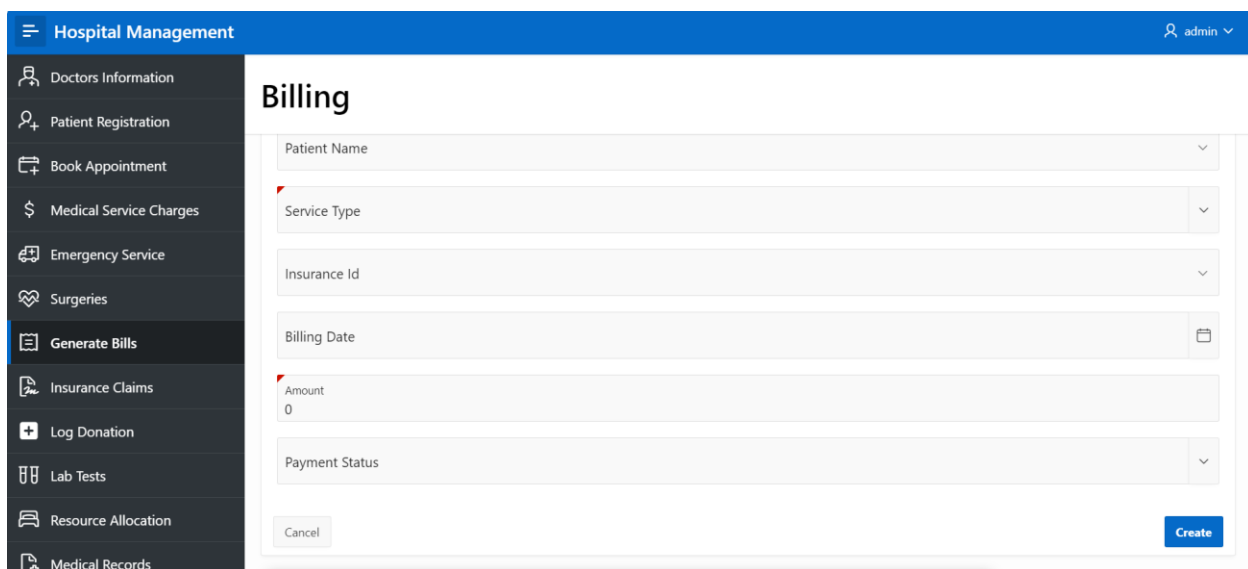
- Once the form is submitted, the newly created record will be displayed in the table below for reference and further updates if necessary.

The screenshot displays the 'Hospital Management' interface. On the left is a dark sidebar with a menu containing: Doctors Information, Patient Registration, Book Appointment, Medical Service Charges, Emergency Service (highlighted), Surgeries, Generate Bills, Insurance Claims, Log Donation, Lab Tests, Resource Allocation, and Medical Records. The main content area is titled 'Emergency Service' and contains a form with the following fields: 'Patient Id' (dropdown), 'Emergency Type' (text input), 'Doctor Id' (dropdown), and 'Date Of Entry' (date picker). At the bottom of the form are 'Cancel' and 'Create' buttons. Below the form is a table header with a search bar, a 'Go' button, and an 'Actions' dropdown menu. A 'Reset' button is located at the bottom right of the interface.

Surgeries Page

- **Select Patient:**
- Use the **Patient ID** dropdown to choose the patient undergoing the surgery.
- **Assign Doctor:**
- Use the **Doctor ID** dropdown to assign the doctor responsible for the procedure.
- **Describe the Surgery:**
- Fill in the **Surgery Description** field with details about the surgery (e.g., procedure name or notes).
- **Set Surgery Date and Time:**
- Use the **Surgery Date** field to select the date of the surgery.
- Use the **Surgery Time** field to specify the exact time.
- **Specify Operating Room:**
- Enter the name or number of the operating room in the **Operating Room** field.
- **Save the Record:**
- Click the **Create** button to save the surgery details

Generate Bills



The screenshot shows a web application interface for a hospital management system. The top navigation bar is blue with the text "Hospital Management" and a user profile icon labeled "admin". A dark sidebar on the left contains a list of menu items: Doctors Information, Patient Registration, Book Appointment, Medical Service Charges, Emergency Service, Surgeries, Generate Bills (highlighted), Insurance Claims, Log Donation, Lab Tests, Resource Allocation, and Medical Records. The main content area is titled "Billing" and contains a form with the following fields: Patient Name (dropdown), Service Type (dropdown), Insurance Id (dropdown), Billing Date (calendar icon), Amount (text input with "0"), and Payment Status (dropdown). At the bottom of the form are "Cancel" and "Create" buttons.

Hospital Management		admin
Doctors Information	Billing	
Patient Registration	Patient Name	
Book Appointment	Service Type	
Medical Service Charges	Insurance Id	
Emergency Service	Billing Date	
Surgeries	Amount	0
Generate Bills	Payment Status	
Insurance Claims	Cancel	Create
Log Donation		
Lab Tests		
Resource Allocation		
Medical Records		

Fields in the Form:

1. Patient Name:

- A dropdown to select the patient's name from the list of registered patients.
- Links the bill to the specific patient.

2. Service Type:

- A dropdown to select the type of service rendered (e.g., Emergency Services, Surgery, etc.).
- This can be linked to the **Medical Service Charges** table to fetch the cost automatically.

3. Insurance ID:

- A dropdown to select the insurance details for the patient if applicable.

4. Billing Date:

- A date picker to specify the date the bill is generated.

5. Amount:

- Displays the total amount based on the selected service type (e.g., cost fetched from the **Medical Service Charges** table).
- This field may be auto-populated and read-only.

6. Payment Status:

- A dropdown to specify the payment status, such as **Paid, Pending**

INSURANCE CLAIMS

Hospital Management

Doctors Information

Patient Registration

Medical Service Charges

Emergency Service

Surgeries

Generate Bills

Insurance Claims


Log Donation

Lab Tests

Resource Allocation

Medical Records

Insurance



Company Name ↑	Coverage Amount	Contact Info
Aetna	4000	info@aetna.com
Blue Cross Blue Shield	2000	contact@bcbs.com
UnitedHealthcare	3500	support@unitedhealthcare.com

Process for Insurance Verification and Billing:

1. Verify Patient's Insurance Status

- Check the hospital system or ask the patient directly if they have insurance coverage.
- Retrieve the insurance company details, including the **Company Name**, **Coverage Amount**, and **Contact Information**, from the "Insurance Claims" section of the system.

2. Send Verification Email

- Use the email address listed in the "Contact Info" column to send a verification email.
- Wait for a confirmation email from the insurance company.

3. Generate an Invoice

4. Send Invoice to the Insurance Company

- Email the invoice as an attachment to the insurance company's provided email address.
- Include a clear subject and body summarizing the invoice

5. Record the Action

- Document the verification and invoice details in the hospital management system or manually in a log file/spreadsheet.
- Include the following:
 - Date of verification and invoice sending.
 - Patient details and service details.
 - Insurance company details.
 - Confirmation status and claim ID (if applicable).

6. Follow Up if Necessary

- If payment is not received within the stipulated time, follow up with the insurance company via email or phone.

LOG DONATION

Hospital Management

admin

Doctors Information

Patient Registration

Medical Service Charges

Emergency Service

Surgeries

Generate Bills

Insurance Claims

Log Donation

Lab Tests

Resource Allocation

Medical Records

Book Appointment

Log Donation

Patient Name

Donor Name

Donation Type

Donation Date

Amount

Cancel

Create

Search: All Text Columns

Go

Actions

Reset

Donor Name	Donation Type	Donation Date	Patient Id	Amount
Harsh	Blood A+	12/1/2024	1234	

- **Patient Name (Optional):**
Select or type the name of the patient associated with the donation (if applicable).
- **Donor Name:**
Enter the name of the donor contributing the donation.
- **Donation Type:**
Choose the type of donation from the dropdown (e.g., Cash, Blood, Organ, Medical Equipment, etc.).
- **Donation Date:**
Use the date picker to select the date on which the donation was made.

- **Amount:**

If the donation is monetary, enter the amount donated. Leave it blank if not applicable.