Java for patient Registration import java.sql.Connection; import java.sql.DriverManager; import java.sql.PreparedStatement; import java.sql.SQLException; public class PatientRegistration { public static void main(String[] args) { String jdbcUrl = "jdbc:mysql://localhost:3306/hospital_db"; String username = "root"; String password = "password"; try (Connection connection = DriverManager.getConnection(jdbcUrl, username, password)) { String sql = "INSERT INTO patients (patient_id, name, age, gender, contact) VALUES (?, ?, ?, ?, ?)"; PreparedStatement statement = connection.prepareStatement(sql); statement.setInt(1, 1); statement.setString(2, "John Doe"); statement.setInt(3, 30); statement.setString(4, "Male"); statement.setString(5, "123-456-7890"); int rowsInserted = statement.executeUpdate(); if (rowsInserted > 0) { System.out.println("A new patient was inserted successfully!"); } catch (SQLException e) { e.printStackTrace(); }

2. JavaScript (Node.js): Doctor Details

}

}

```
const mysql = require('mysql');

const connection = mysql.createConnection({
  host: 'localhost',
  user: 'root',
  password: 'password',
  database: 'hospital_db'
});
```

```
connection.connect();
const doctorId = 1;
const query = 'SELECT * FROM doctors WHERE doctor_id = ?';
connection.query(query, [doctorId], (error, results) => {
  if (error) throw error;
  console.log(results);
});
connection.end();
3. C: Prescription Management
#include <stdio.h>
#include <mysql/mysql.h>
void addPrescription(int prescription_id, int patient_id, int doctor_id, const char* medicine, const char* dosage) {
  MYSQL *conn;
  MYSQL_RES *res;
  MYSQL_ROW row;
  char *server = "localhost":
  char *user = "root";
  char *password = "password"; /* set me first */
  char *database = "hospital_db";
  conn = mysql_init(NULL);
 /* Connect to database */
  if (!mysql_real_connect(conn, server, user, password, database, 0, NULL, 0)) {
   fprintf(stderr, "%s\n", mysql_error(conn));
    return;
 }
 char query[512];
  sprintf(query, "INSERT INTO prescriptions (prescription_id, patient_id, doctor_id, medicine, dosage) VALUES (%d, %d, %d,
'%s', '%s')",
      prescription_id, patient_id, doctor_id, medicine, dosage);
  /* send SQL query */
  if (mysql_query(conn, query)) {
   fprintf(stderr, "%s\n", mysql_error(conn));
   return;
 }
  /* close connection */
  mysql_close(conn);
int main() {
  addPrescription(1, 1, 1, "Amoxicillin", "500mg");
  return 0;
}
```

. HTML/CSS/JavaScript (Web Development): Disease Diagnosis

HTML (index.html)

}

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Disease Diagnosis</title>
 <link rel="stylesheet" href="styles.css">
</head>
<body>
 <h1>Disease Diagnosis</h1>
 <form id="diagnosisForm">
   <label for="symptoms">Enter Symptoms:</label>
   <input type="text" id="symptoms" name="symptoms" required>
   <button type="submit">Diagnose</button>
  </form>
  <div id="diagnosisResult"></div>
 <script src="script.js"></script>
</body>
</html>
CSS (styles.css)
body {
 font-family: Arial, sans-serif;
  margin: 20px;
}
h1 {
  color: #333;
}
form {
 margin-bottom: 20px;
}
label {
 display: block;
 margin-bottom: 5px;
```

```
input {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
}
button {
  padding: 10px 15px;
  background-color: #007BFF;
  color: white;
  border: none;
  cursor: pointer;
}
button:hover {
  background-color: #0056b3;
}
#diagnosisResult {
  margin-top: 20px;
}
JavaScript (script.js)
document.getElementById('diagnosisForm').addEventListener('submit', function (e) {
  e.preventDefault();
  const symptoms = document.getElementById('symptoms').value;
  fetch('/diagnose', {
    method: 'POST',
    headers: {
      'Content-Type': 'application/json'
    },
    body: JSON.stringify({ symptoms })
  })
  .then(response => response.json())
  .then(data => {
    document.getElementById('diagnosisResult').innerText = `Diagnosis: ${data.diagnosis}`;
  .catch(error => console.error('Error:', error));
});
```

Node.js Backend (server.js)

const express = require('express');

```
const bodyParser = require('body-parser');
const app = express();
const port = 3000;
app.use(bodyParser.json());
app.post('/diagnose', (req, res) => {
  const symptoms = req.body.symptoms;
  let diagnosis;
  // Simple example logic for diagnosis
  if (symptoms.includes('fever') && symptoms.includes('cough')) {
    diagnosis = 'Flu';
  } else {
    diagnosis = 'Unknown';
  }
  res.json({ diagnosis });
});
app.listen(port, () => {
  console.log(`Server running at http://localhost:${port}/`);
});
SQL: Database Setup
CREATE DATABASE hospital_db;
USE hospital_db;
CREATE TABLE patients (
  patient_id INT PRIMARY KEY,
  name VARCHAR(100),
  age INT,
  gender VARCHAR(10),
  contact VARCHAR(20)
);
CREATE TABLE doctors (
  doctor_id INT PRIMARY KEY,
  name VARCHAR(100),
  specialization VARCHAR(50),
  contact VARCHAR(20)
```

```
CREATE TABLE prescriptions (
   prescription_id INT PRIMARY KEY,
   patient_id INT,
   doctor_id INT,
   medicine VARCHAR(100),
   dosage VARCHAR(50),
   FOREIGN KEY (patient_id) REFERENCES patients(patient_id),
   FOREIGN KEY (doctor_id) REFERENCES doctors(doctor_id)
);
```