**INSTITUTE OF AERONAUTICAL ENGINEERING**

**(Autonomous)**

Dundigal, Hyderabad - 500 043

Web Application Development

PROJECT

**1.Project Name :**      E-Hospital Management System

**2.  Objectives:**

• To provide the e-Hospital, e-BloodBank and ORS applications to government hospitals

•  To provide online patient portal for delivery of citizen centric services like online appointment booking, access to lab reports online and blood availability status

•  To provide application related technical support to the hospitals through dedicated Call Centre/ Helpdesk

**3. Functional Requirements:**

• Patient Registration and Management

• Appointment Scheduling

• Electronic Health Records

• Laboratory and Radiology information System

• Pharmacy Management

• Security and Access Control

**4. Reports:**

Patient Reports:

• Demographic Reports: Summarize patient demographics, including age, gender, location, and other relevant information.

• Appointment Reports: Provide details on scheduled appointments, cancellations, and no-shows.

Clinical Reports:

• Diagnosis and Treatment Reports: Outline the diagnoses made and treatments prescribed for patients over a specific period.

• Clinical Outcome Reports: Track and analyze patient outcomes, including improvements or deteriorations in health.

Financial Reports:

• Billing and Invoicing Reports: Summarize financial transactions, including billed services, payments received, and outstanding balances.

• Revenue Reports: Provide an overview of the hospital's revenue, broken down by services, departments, or time periods.

Operational Reports:

• Appointment Scheduling Reports: Evaluate appointment scheduling efficiency, identify peak times, and optimize resource allocation.

• Resource Utilization Reports: Analyze the usage of hospital resources, such as staff, equipment, and facilities.

**5. Technologies used:**

Front End Technologies :

• HTML

• CSS

• Java Script

**6. HTML Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>E-Hospital Management System</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            margin: 20px;

        }

        header {

            text-align: center;

            padding: 10px;

            background-color: #4CAF50;

            color: white;

            font-size: 24px;

        }

        nav {

            display: flex;

            justify-content: space-around;

            background-color: #333;

            color: white;

            padding: 10px;

        }

        section {

            margin: 20px 0;

        }

        footer {

            text-align: center;

            padding: 10px;

            background-color: #4CAF50;

            color: white;

        }

    </style>

</head>

<body>

    <header>

        E-Hospital Management System

    </header>

    <nav>

        <a href="#home">Home</a>

        <a href="#appointments">Appointments</a>

        <a href="#patients">Patients</a>

        <a href="#doctors">Doctors</a>

    </nav>

    <section id="home">

        <h2>Welcome to E-Hospital Management System</h2>

        <p>This is a simple E-Hospital Management System. Explore the features using the navigation links above.</p>

    </section>

    <section id="appointments">

        <h2>Appointments</h2>

        <!-- Add appointment-related content here -->

    </section>

    <section id="patients">

        <h2>Patients</h2>

        <!-- Add patient-related content here -->

    </section>

    <section id="doctors">

        <h2>Doctors</h2>

        <!-- Add doctor-related content here -->

    </section>

    <footer>

        &copy; 2023 E-Hospital Management System

    </footer>

</body>

</html>

**7.  CSS Code:**

body, h1, h2, h3, p, ul {

    margin: 0;

    padding: 0;

}

body {

    font-family: 'Arial', sans-serif;

    line-height: 1.6;

    background-color: #f4f4f4;

    color: #333;

}

header {

    background-color: #4CAF50;

    color: white;

    padding: 10px;

    text-align: center;

}

nav {

    background-color: #333;

}

nav ul {

    list-style-type: none;

    margin: 0;

    padding: 0;

    text-align: center;

}

nav li {

    display: inline-block;

    margin-right: 20px;

}

nav a {

    text-decoration: none;

    color: white;

    font-weight: bold;

    padding: 10px;

    transition: background-color 0.3s ease;

}

nav a:hover {

    background-color: #555;

}

section {

    background-color: #fff;

    margin: 20px;

    padding: 20px;

    border-radius: 8px;

    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

h2 {

    color: #4CAF50;

}

footer {

    background-color: #4CAF50;

    color: white;

    padding: 10px;

    text-align: center;

    position: fixed;

    bottom: 0;

    width: 100%;

}

@media only screen and (max-width: 768px) {

    nav ul {

        display: block;

        text-align: left;

    }

    nav li {

        display: block;

        margin: 0;

        margin-bottom: 10px;

    }

    nav a {

        display: block;

        padding: 10px;

    }

}

**8. JS Code:**

// Sample data for patients and doctors

const patients = [

    { id: 1, name: 'John Doe', age: 35, gender: 'Male', condition: 'Fever' },

    { id: 2, name: 'Jane Smith', age: 28, gender: 'Female', condition: 'Broken Arm' },

    // Add more patient data as needed

];

const doctors = [

    { id: 101, name: 'Dr. Smith', specialization: 'Internal Medicine' },

    { id: 102, name: 'Dr. Johnson', specialization: 'Orthopedics' },

    // Add more doctor data as needed

];

// Function to display patient information

function displayPatients() {

    const patientList = document.getElementById('patient-list');

    // Clear previous content

    patientList.innerHTML = '';

    patients.forEach(patient => {

        const listItem = document.createElement('li');

        listItem.textContent = `${patient.name} - ${patient.condition}`;

        patientList.appendChild(listItem);

    });

}

// Function to display doctor information

function displayDoctors() {

    const doctorList = document.getElementById('doctor-list');

    // Clear previous content

    doctorList.innerHTML = '';

    doctors.forEach(doctor => {

        const listItem = document.createElement('li');

        listItem.textContent = `${doctor.name} - ${doctor.specialization}`;

        doctorList.appendChild(listItem);

    });

}

// Event listener for when the page is loaded

document.addEventListener('DOMContentLoaded', function () {

    displayPatients();

    displayDoctors();

    // Add more event listeners or functionality as needed

});

9.Back-end connectivity code:

10. Images Related to Project: