|  |  |  |
| --- | --- | --- |
| 1) | **Aim:** | Initiate the “Project Title” by defining scope, key pages (min. 10), and  layout with HTML skeletons. |
| **Code:** | **About.html :-**  <!DOCTYPE html>  <html>  <head>    <title>About CHARUSAT Portal</title>    <link rel="stylesheet" href="/lab work/charusat\_portal/css/about.css">  </head>  <body>    <div class="header">       <img src="CHARUSAT\_RGTD\_LOGO.webp" alt="CHARUSAT Logo">       <h1>About CHARUSAT Portal</h1>    </div>      <p>This portal provides access to student academic resources, event tracking  , feedback submission, and more.</p>    <p>Charotar University of Science and Technology – CHARUSAT has been  conceived by Shri Charotar Moti Sattavis Patidar Kelavani Mandal to put India  on global education map by making Charotar – the Land of Sardar Patel, a Global Education Hub.    Kelavani Mandal, established in 1994, is a non-profit premier trust of India  that works with the aim to provide social service through education. The  organization has a social lineage of more than 125 years. The parent organization,  Shri Charotar Moti Sattavis Leuva Patidar Samaj– Matrusanstha- is known  for the social revolution it brought about by initiating Mass Marriages in  Patidar community on a massive scale.Kelavani Mandal has been established  with the distinct objective of creating state-of-the-art educational facilities  . The trust is a democratically managed institution known for its transparent  functioning and integrity.  </p>  <p>    The Kelavani Mandal is the sponsoring body of CHARUSAT. The development  path of Kelavani Mandal was illuminated under the leadership of two former  Presidents: Late Shri Chhotabhai Bhikhabhai Patel and Late Dr. K C Patel.  Late Shri Chhotabhai Bhikhabhai Patel was an illustrious businessman and  social leader based in Mumbai. This founder President of Kelavani Mandal  always insisted on setting Global Standards. Late Dr. K C Patel, a renowned  nuclear scientist and a prominent educationist of Gujarat, succeeded Shri  Chhotabhai Bhikhabhai Patel, and dreamt of a university at Education  Campus, Changa (ECC).  </p>  <p>    Contact<br>  Charotar University of Science and Technology,<br>  CHARUSAT Campus,<br>  Off. Nadiad-Petlad Highway, Changa-388421<br><br>  CALL - +91 2697 265011/21<br>  Mail - info@charusat.ac.in<br>  Time - Mon - Sat: 09:00 AM - 4:30 PM<br>  </p>    <a href="index.html">Back to Home</a>    </body>   <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **Admin.html :-**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <link rel="stylesheet" href="/lab work/charusat\_portal/css/admin.css">      <title>Admin</title>  </head>  <body class="body">      <header class="header">          <big>              <strong>                  <div>                      <h1>                          Admin Dashboard                      </h1>                  </div>              </strong>          </big>        </header>           <strong>                  <h1>                      --------------------------------------------------                  </h1>              </strong>      <main class="main">          <div>              <h1>                  Welcome To admin Dashboard!              </h1>          </div>          <div><br></div>          <div>              <button>My Salary</button>              <button>Panding Attendance</button><br>              <div><br></div>              <button>Time Table</button>              <button>Holidays</button>          </div>          <div>              <big>                  <h1>                      Notification                  </h1>              </big>          </div>          <div>              <strong>                  <p>\* There are no Notification</p>              </strong>          </div>          <strong>                  <h1>                      --------------------------------------------------                  </h1>              </strong>      </main>    </body>   <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **Dashboard.html :-**  <!DOCTYPE html>  <html lang="en">  <head>    <meta charset="UTF-8">    <title>CHARUSAT Student Dashboard</title>    <link rel="stylesheet" href="/lab work/charusat\_portal/css/dashboard.css">  </head>  <body>    <header class="header">         <img src="CHARUSAT\_RGTD\_LOGO.webp" alt="CHARUSAT Logo">      <h1>CHARUSAT Student Dashboard</h1>    </header>    <nav>      <a href="index.html">Home</a>      <a href="profile.html">Profile</a>      <a href="event.html">Events</a>      <a href="Feedback.html">Logout</a>    </nav>    <main class="dashboard">      <h2>Welcome, charusat dashboard</h2>      <div class="dashboard-sections">        <section>          </section>        <section>          <h3>Quick Links</h3>          <ul>            <li><a href="results.html">View Results</a></li>            <li><a href="feedback.html">Submit Feedback</a></li>            <li><a href="event.html">Register for Event</a></li>          </ul>        </section>      </div>    </main>    </body>  <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **Event.html :-**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">       <link rel="stylesheet" href="/lab work/charusat\_portal/css/event.css">      <title>Events</title>  </head>  <style>  .img{      display: flex;      text-align: left;  }  .nav{      padding: 10px;    text-align: center;  }  body{      text-align: center;      background-color: rgba(127, 212, 255, 0.432);  }  </style>  <body>      <header>          <h1>              <div class="header">                  Recent Events!!!              </div>          </h1>          <div>              <big>                  <strong class="nav">                      <a href="profile.html">Profile</a> |                      <a href="admin.html">Admin</a> |                      <a href="dashboard.html">Dashboard</a>                  </strong>              </big>          </div>          <div>              <h1>                   <h2>Upcoming Events:</h2>          <div>            <h3>TechFest 2025 - July 15</h3>            <h3>AI Workshop - August 2</h3>          </div>                  ---------------------------------------------------------------------------  --------------------------------              </h1>          </div>      </header>      <main>          <a href="#About">About</a> |          <a href="#Scadule">Scadule</a> |          <a href="#Contact">Content</a>          <h1>Coding ninjas</h1>          <p>The Certification Programs</p>          <section id="about">              <h2>Build real,Working Products that showcase your skills</h2>              <p>Coding Ninjas events focus on providing a dynamic  learning experience, <br>bridging the gap between                  industry                  needs and academic education in tech, with a range of coding challenges, <br>workshops, and webinars                  designed to help participants level up their skills and unlock career opportunities.</p>          </section>          <div>              <h1>                  -------------------------------------------------------------------------------  --------------------------              </h1>          </div>      </main>    </body>     <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **Feedback.html :-**  <!DOCTYPE html>  <html>  <head>     <link rel="stylesheet" href="/lab work/charusat\_portal/css/event.css">    <title>Feedback</title>  </head>  <body>    <h1 class="header">Submit Feedback</h1>    <form>      <label>Course/Instructor:</label>      <input type="text"><br>      <label>Your Feedback:</label><br>      <textarea rows="5" cols="40"></textarea><br>      <button type="submit">Submit</button>    </form>    </body>    <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **Index.html :-**  <!DOCTYPE html>  <html>  <head>    <title>CHARUSAT Portal</title>    <link rel="stylesheet" href="/lab work/charusat\_portal/css/index.css">    </head>  <body>    <div class="header">       <img src="CHARUSAT\_RGTD\_LOGO.webp" alt="CHARUSAT Logo">      <h1>CHARUSAT</h1>    </div>      <nav style="color: aliceblue;">      <a href="about.html">About</a>      <a href="login.html">Login</a>      <a href="register.html">Register</a>      </nav>        <div style="text-align: center;">                  NAAC A+ Accredited University<br>                  Member of United Nations of Academic Impact        </div>          </h2>          <div style="text-align: center;">              <h2>                  Contact                  Charotar Univewrsity Science And Technology,<br>                  CHARUSATV Campus,<br>                  Off. Nadiad-Petlad Highway, Changa-388421          </h2>      <div class="gate">      <img src="gate.png" alt="charusat photo">      </div>        <div>        Join our dynamic and diverse academic community at  Charotar University of Science and Technology (CHARUSAT)  where we foster innovation, excellence, and lifelong learning  . We are looking for passionate educators, researchers, and  professionals who are committed to shaping the future of education.         </div>    </body>  <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **Login.html :-**  <!DOCTYPE html>  <html>  <head>    <title>CHARUSAT Portal - Login</title>    <link rel="stylesheet" href="/lab work/charusat\_portal/css/login.css">  </head>  <body>     <header>          <div >              <div class="header">              <img class="img" src="CHARUSAT\_RGTD\_LOGO.webp" alt="CHARUSAT" width="300px">               <h1>Login</h1>              </div>            </header>        <form action="dashboard.html" method="get">        <table>         <div >      <th> <h2>CHARUSAT PORTAL - Login</h2> </th>       <tr>       <td> <input class="input-box" type="text" id="username"  placeholder="username" required></td>        </tr>        <p>        <tr><td>        <input class="input-box" type="password" id="password"  placeholder="password" required>        </td></tr>        </p>        <tr><td>        <button class="button" type="submit">Login</button>        </td></tr>        <tr><td>        <div class="forgot-password">          <a href="#">Forgot Password?</a>        </div>        </td></tr>        </table>      </form>    </div>  </body>  <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **Profile.html :-**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <link rel="stylesheet" href="/lab work/charusat\_portal/  css/profile.css">      <title>Profile</title>  </head>  <body>      <header>          <div >              <div class="header">              <img class="img" src="CHARUSAT\_RGTD\_LOGO.webp" alt="CHARUSAT" width="300px">                <h1 >Student Profile</h1><br>              </div>              <strong>                  <h1>                      --------------------------------------------------                  </h1>                  <nav>                      <big>                          <a href="index.html">Home</a> |                          <a href="dashboard.html">Dashboard</a> |                          <a href="event.html">Events</a> |                          <a href="results.html">Result</a>                      </big>                      <div><br></div>                  </nav>              </strong>          </div>      </header>      <main>          <form>              <label>                  Name:                  <input type="text" value="Patel Prince">              </label>              <div><br></div>              <label>                  Email:                  <input type="email" value="patelprince12@gmail.com">              </label>              <div><br></div>              <label>                  Department:                  <input type="text" value="Conputer Engineering">              </label>              <div><br></div>            </form>              <strong>                  <h1>                      --------------------------------------------------                  </h1>              </strong>      </main>    </body>  <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **Register.html :-**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width,  initial-scale=1.0">      <title>Student Ragistration Form></form></title>      <link rel="stylesheet" href="/lab work/charusat\_portal/css/  registration.css">  </head>  <body>       <header>          <div >              <div class="header">              <img class="img" src="CHARUSAT\_RGTD\_LOGO.webp"  alt="CHARUSAT" width="300px">        <h1>Registration Form</h1>      </div>  </header>       <form action="login.html" method="get">      <table>                    <th> <h2>Registration Form</h2></th>              <tr>                    <td><input class="input-box" type="text" name="full name" placeholder="Full Name" required /></td>          </tr>                <tr><td><input class="input-box" type="text"  name="roll no." placeholder="Roll no." required /></td></tr>                <tr>  <td><select class="input-box" type="radio"  name="institute" required>                        <option value="" disabled selected>Select your  institute</option>                       <option value="ce">computer engineering</option>                       <option value="ec">electronic comunication</option>                       <option value="it">information technology</option>                    </td>                    </tr>                  <tr>                  <td>                      <select class="input-box" required>                   <option value="" disabled selected>Select your gender  </option>                   <option value="male">male</option>                   <option value="female">female</option>                 </select>                 </td>                 </tr>             <td>          <a href="login.html" class="login">          <button class="button"><option>Submit</option>              </a>          </button>          <button  class="button">                  <option>Reset</option>          </button>          </td>      </table>       </form>  </body>  <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html>  **result.html :-**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">\      <link rel="stylesheet" href="/lab work/charusat\_portal/  css/event.css">        <title>Result</title>  </head>  <body>      <header>          <div class="header">              <img class="img" src="CHARUSAT\_RGTD\_LOGO.webp" alt="CHARUSAT" width="300px">              <h1 style="text-align: center;">Result</h1>          </div>            <div style="text-align: center;">              <strong>                  <h1>                      --------------------------------------------------                  </h1>              </strong>          </div>      </header>      <main style="text-align: center;">          <strong>              <big>                         <label>                      Course:                      <select name="Course" id="Course" required>                          <option value="">-None-</option>                          <option value="Computer Engineering">Computer Engineering</option>                 <option value="Computer Science & Engineering">  Computer Science & Engineering</option>                 <option value="Information And Technology">  Information And Technology</option>                          <option value="Electronic And Communication Engineering">Electronic And Communication                              Engineering                          </option>                      </select>                  </label>                     <br>                  <br>                    <label>                      semester :                  <select style="width: 260px;" required>                      <option value="">-None-</option>                      <option value="1">one</option>                    </select>                  </label>                  <div><br></div>                     <label>                      Student id:                      <input type="text"  style="width: 250px;" value=""  required>                  </label>                    <h1>                      <button style="color: rgb(28, 38, 143);">                          <a img href="result.png"> Submit</a>                      </button>                  </h1>                  <div style="text-align: center;">                      <h1>                          --------------------------------------------------                      </h1>                  </div>              </big>          </strong>      </main>    </body>     <footer class="footer">          <p>© CHARUSAT Student Service<br>           Name : Prince Patel<br>Id : 24CE092</p>      </footer>  </html> |
| **Screenshot:** | **About.html :-**    **Admin.html :-**    **Dashboard.html :-**    **Event.html :-**    **Feedback.html :-**    **Login.html :-**    **Profile.html :-**    **Results.html :-**      **Index.html:-**    **Register.html:-** |
| 2) | **Aim:** | Design a fully responsive layout for the portal home, about,  and registration  pages using CSS and Flexbox/Grid. |
| **Code:** | **Index.Css:-**  @media screen and (min-width: 768px) {    body{       width: 100%;    }  }  @media screen and (max-width: 768px) {    body{       width: 50%;       margin: auto;    }  }  h1{    font-size: 60px;    text-align: center;  }  .header {    background-color: #003366;    line-height: 60px;    color: white;    padding: 1px;  }      .header img {        height: 40px;      }  body {    background-color: #f4f8ff;  }  nav {    background-color: #1a74ea;    padding: 10px;    text-align: center;  }   .gate{     display: flex;     flex-direction: column;   }  nav a {    color: white;    text-decoration: none;    margin: 15px;  }  footer{    background-color: rgb(23, 135, 200);    display: flex;   align-items: center;   justify-content: center;   text-align: center;  }  **About.Css :-**  .header{       background-color: #003366;    line-height: 60px;    color: white;    padding: 1px;  }      .header img {        height: 40px;      }      h1{        text-align: center;      }  p{      font-size: 20px;  }  a{      font-size: 20px;  }  footer{    background-color: rgb(23, 135, 200);    display: flex;   align-items: center;   justify-content: center;   text-align: center;  }  **Register.Css :-**  @media screen and (min-width: 768px) {    body{       width: 100%;    }  }  @media screen and (max-width: 768px) {    body{       width: 50%;       margin: auto;    }  }  .header{         background-color: #003366;         width: 1550px;    line-height: 20px;    color: white;    padding: 1px;    }  .img{  display: flex;         text-align: left;    }    h1{      text-align: center;    }  body {        background-size: 100%;      display: grid;      grid-column: auto;      justify-content: center;      align-items: center;      height: 100vh;      border-image-width: 10px;      transition-duration: 4s;      transition-delay: 4s;  }  table {      margin-left: 500px;      width: 500px;      background-color: rgb(214, 218, 216);      padding: 20px;      box-shadow: 2px 4px 10px rgba(0, 0, 0, 0.521);      border-spacing: 15px;      border: 2px solid;      border-radius: 1rem;  }  th, td{      border: 2px black;      text-align: center;      margin: 10px;      text-size-adjust: 200px;      width: 100%;      height: 100%;  }  .input-box:hover{       border: 3px solid;  }  .text{       display: grid;       grid-template-columns: auto;  }  select {      width: 100%;      padding: 10px;      font-size: 1rem;  }  button {      padding: 10px 10px;      margin: 5px 5px 0 0;      border: none;      border-radius: 6px;      background-color: #007bff;      color: white;      font-size: 1rem;      width: 80%;      justify-content: center;    }   .input-box {        width: 250px;        text-align: center;        height: 40px;        box-sizing: border-box;      }      .button{           width: 120px;           box-sizing: border-box;      }      .login{          color: white;          text-decoration: none;      }    footer{    background-color: rgb(23, 135, 200);    display: flex;   align-items: center;   justify-content: center;   text-align: center;  } |
| 3) | **Aim:** | Create a user registration page with frontend validation using HTML5 and JavaScript. |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>    <meta charset="UTF-8">    <title>Student Registration Form</title>    <style>      body {          margin: 30px;      }      .error {        color: red;        font-size: 0.9em;      }      input.error-input {        border: 2px solid red;        background-color: #ffe6e6;      }      .success {        margin-top: 20px;        padding: 10px;        border: 1px solid green;        background-color: #e6ffe6;      }    </style>  </head>  <body>    <h2>Student Registration Form</h2>    <form id="registrationForm" onsubmit="return validateForm()">      <label>Full Name:        <input type="text" id="fullname" name="fullname" required>        <span class="error" id="fullnameError"></span>      </label><br><br>      <label>Student ID:        <input type="text" id="studentid" name="studentid" required pattern="[A-Za-z0-9]+">        <span class="error" id="studentidError"></span>      </label><br><br>      <label>Email:        <input type="email" id="email" name="email" required>        <span class="error" id="emailError"></span>      </label><br><br>      <label>Username:        <input type="text" id="username" name="username" required>        <span class="error" id="usernameError"></span>      </label><br><br>      <label>Password:        <input type="password" id="password" name="password"  required>        <span class="error" id="passwordError"></span>      </label><br><br>      <label>Confirm Password:        <input type="password" id="confirmpassword" name="confirmpassword" required>        <span class="error" id="confirmpasswordError"></span>      </label><br><br>      <label>Phone Number:        <input type="text" id="phone" name="phone" required>        <span class="error" id="phoneError"></span>      </label><br><br>      <button type="submit">Register</button>    </form>    <div id="output" class="success"></div>    <script>      const nameRegex = /^[a-zA-Z\s]+$/;      const usernameRegex = /^[a-zA-Z0-9]{5,15}$/;      const passwordRegex = /^(?=.\*[A-Za-z])(?=.\*\d)  (?=.\*[@$!%\*?&]).{8,}$/;      const phoneRegex = /^[0-9]{10}$/;      function validateField(id, pattern, message) {        const input = document.getElementById(id);        const errorSpan = document.getElementById(id + "Error");        if (!pattern.test(input.value.trim())) {          errorSpan.textContent = message;          input.classList.add("error-input");          return false;        } else {          errorSpan.textContent = "";          input.classList.remove("error-input");          return true;        }      }      function validatePasswords() {        const password = document.getElementById("password").value;        const confirm = document.getElementById  ("confirmpassword").value;        const errorSpan = document.getElementById  ("confirmpasswordError");        if (password !== confirm) {          errorSpan.textContent = "Passwords do not match.";          document.getElementById("confirmpassword")  .classList.add("error-input");          return false;        } else {          errorSpan.textContent = "";          document.getElementById("confirmpassword")  .classList.remove("error-input");          return true;        }      }      function validateForm() {  const validName = validateField("fullname", nameRegex  , "Only letters and spaces allowed.");  const validUsername = validateField("username",  usernameRegex, "5–15 alphanumeric characters.");  const validPassword = validateField("password"  , passwordRegex, "Min 8 chars with letter, digit, special char.");  const validPhone = validateField("phone", phoneRegex,  "Must be exactly 10 digits.");        const passwordsMatch = validatePasswords();        if (validName && validUsername && validPassword  && validPhone && passwordsMatch) {          showOutput();          return false;        }        return false;      }      function showOutput() {        const output = document.getElementById("output");        const name = document.getElementById("fullname").value;        const id = document.getElementById("studentid").value;        const email = document.getElementById("email").value;        const username = document.getElementById("username").value;        const phone = document.getElementById("phone").value;        output.innerHTML = `          <h3>Registration Successful!</h3>          <p><strong>Name:</strong> ${name}</p>          <p><strong>Student ID:</strong> ${id}</p>          <p><strong>Email:</strong> ${email}</p>          <p><strong>Username:</strong> ${username}</p>          <p><strong>Phone:</strong> ${phone}</p>        `;      }      document.getElementById("fullname").addEventListener  ("blur", () =>        validateField("fullname", nameRegex,  "Only letters and spaces allowed.")      );      document.getElementById("username").addEventListener  ("blur", () =>        validateField("username", usernameRegex, "5–15 alphanumeric characters.")      );      document.getElementById("password").addEventListener  ("blur", () =>        validateField("password", passwordRegex,  "Min 8 chars with letter, digit, special char.")      );      document.getElementById("phone").addEventListener  ("blur", () =>        validateField("phone", phoneRegex,  "Must be exactly 10 digits.")      );      document.getElementById("confirmpassword")  .addEventListener("blur", validatePasswords);    </script>   <footer>Name : Prince Patel<br>Id : 24CE092</footer>  </body>  </html> |
| **Screenshot:** |  |
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| **4) Aim:** | Create dynamic content such as collapsible FAQs, popups,  and sliders in portal page |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>    <meta charset="UTF-8">    <title>Dynamic Portal UI</title>    <style>      body {        font-family: Arial, sans-serif;        margin: 0;        padding: 0 20px;        transition: background 0.3s, color 0.3s;      }      h1 {        text-align: center;        margin-top: 20px;      }      .faq-card {        border: 1px solid #ccc;        padding: 10px;        margin: 10px auto;        border-radius: 8px;        max-width: 600px;        transition: transform 0.2s;      }      .faq-card:hover {        transform: scale(1.02);        background-color: #f0f0f0;      }      .faq-answer {        display: none;        margin-top: 5px;      }      .popup {        position: fixed;        top: 10px;        right: 10px;        background: orange;        color: white;        padding: 10px 20px;        border-radius: 5px;        display: none;      }      #slider {        margin: 30px auto;        max-width: 500px;        text-align: center;      }      .slide {        display: none;        padding: 20px;        border: 1px solid #888;        border-radius: 10px;        margin-bottom: 10px;        background: #e0e0e0;      }      .slide.active {        display: block;      }      .dark-theme {        background-color: #222;        color: white;      }      button {        padding: 8px 16px;        margin: 5px;        border-radius: 5px;        border: none;        cursor: pointer;        transition: background 0.3s;      }      button:hover {        background-color: #555;        color: white;      }      .theme-button {        position: fixed;        bottom: 20px;        right: 20px;        background-color: #333;        color: white;      }    </style>  </head>  <body>    <h1>Interactive Portal UI</h1>    <div id="notification" class="popup">      🚨 This is a notification! <button onclick="hideNotification()">Dismiss</button>    </div>    <section>      <h2>FAQs</h2>      <div id="faq-container"></div>    </section>    <section id="slider-section">      <h2>Slider</h2>      <div id="slider">        <div class="slide active">🌟 Welcome to Slide 1</div>        <div class="slide">🚀 This is Slide 2</div>        <div class="slide">🎉 You're viewing Slide 3</div>      </div>      <button onclick="nextSlide()">Next Slide</button>    </section>    <button class="theme-button" onclick="toggleTheme()">🌓 Toggle Theme</button>    <script>      const faqs = [        {          "question": "What is JavaScript?",          "answer": "JavaScript is a scripting language that enables interactive web pages."        },        {          "question": "What is DOM?",          "answer": "DOM stands for Document Object Model, which allows scripts to update content, structure, and styles."        },        {          "question": "What is an event listener?",          "answer": "An event listener waits for a specific user interaction, like clicks or key presses."        }      ];      const faqContainer = document.getElementById("faq-container");      faqs.forEach(faq => {        const card = document.createElement("div");        card.className = "faq-card";        card.innerHTML = `          <strong class="faq-question" style="cursor:pointer;">${faq.question}</strong>          <p class="faq-answer">${faq.answer}</p>        `;        faqContainer.appendChild(card);      });      faqContainer.addEventListener("click", function (e) {        if (e.target.classList.contains("faq-question")) {          const answer = e.target.nextElementSibling;          answer.style.display = answer.style.display === "block" ? "none" : "block";        }      });      function showNotification() {        document.getElementById("notification").style.display = "block";      }      function hideNotification() {        document.getElementById("notification").style.display = "none";      }      window.onload = () => {        setTimeout(showNotification, 1000);      };      let currentSlide = 0;      const slides = document.querySelectorAll(".slide");      function nextSlide() {        slides[currentSlide].classList.remove("active");        currentSlide = (currentSlide + 1) % slides.length;        slides[currentSlide].classList.add("active");      }      function toggleTheme() {        document.body.classList.toggle("dark-theme");      }    </script>     <footer>Name : Prince Patel<br>Id : 24CE092</footer>  </body>  </html> |
| **Screenshot:** |  |
| 5) | **Aim:** | Display events list and student profiles using object arrays and JSON parsing. |

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|  | **Code:** | <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>JSON Example</title>  </head>  <body>      <button id="add" onclick="add()">ADD Data</button>      <button id="delete">Delete Data</button>      <table border="1">      <thead>      <tr>          <th>      <input type="text" id="tid" placeholder="id">         </th>      <th>      <input type="text" id="tname" placeholder="Name">      </th>      <th>      <input type="text" id="tbran" placeholder="branch">      </th>      </tr>      </thead>      <tbody id="display">         </tbody>      </table>      <script>      let students=[];    function add(){          let id = document.getElementById("tid").value;          let name=document.getElementById("tname").value;          let branch=document.getElementById("tbran").value;            let student={              id,              name,              branch,          };          students.push(student);          displayStudents();            document.getElementById("tid").value = "";              document.getElementById("tname").value = "";              document.getElementById("tbran").value = "";      }            function displayStudents() {        const body = document.getElementById("display");        body.innerHTML = "";        students.forEach((stu, index) => {          let row = `<tr>                      <td>${stu.id}</td>                      <td>${stu.name}</td>                      <td>${stu.branch}</td>                    </tr>`;          body.innerHTML += row;        });      }      document.getElementById("delete").addEventListener("click", function(){         if (students.length > 0) {          students.pop();          displayStudents();        }      })      let json=JSON.stringify(student);        </script>  <footer>Name : Prince Patel<br>Id : 24CE092</footer>  </body>  </html> |
| **Screenshot:** |  |

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| 6) | **Aim:** | Store submitted registration data in a PHP file and confirm submission. |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>    <meta charset="UTF-8">    <title>Registration Form</title>  </head>  <body>    <h2>Student Registration</h2>    <form method="POST">      <label>Full Name: <input type="text" name="fullname" required></label><br><br>      <label>Student ID: <input type="text" name="studentid" required></label><br><br>      <label>Email: <input type="email" name="email" required></label><br><br>      <label>Username: <input type="text" name="username" required></label><br><br>      <label>Password: <input type="password" name="password" required></label><br><br>      <label>Phone: <input type="text" name="phone" required></label><br><br>      <button type="submit">Register</button>    </form>  </body>  </html>  <?php  if ($\_SERVER["REQUEST\_METHOD"] == "POST") {      $fullname   = $\_POST['fullname'];      $studentid  =$\_POST['studentid'];      $email      =$\_POST['email'];      $username   =$\_POST['username'];      $password   =$\_POST['password'];      $phone      =$\_POST['phone'];      echo "<h2>Registration Successful!</h2>";      echo "<p><b>Name:</b> $fullname</p>";      echo "<p><b>Student ID:</b> $studentid</p>";      echo "<p><b>Email:</b> $email</p>";      echo "<p><b>Username:</b> $username</p>";      echo "<p><b>Phone:</b> $phone</p>";  } else {      echo "<h3>Null request</h3>";  }  ?> |
| **Screenshot:** |  |

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| 7) | **Aim:** | Create a login/logout system with session & cookie handling |
| **Code:** | <?php  session\_start();  if (isset($\_GET['action']) && $\_GET['action'] === "logout") {        $\_SESSION = array();      session\_destroy();      if (ini\_get("session.use\_cookies")) {          $params = session\_get\_cookie\_params();          setcookie(session\_name(), '', time() - 42000,              $params["path"], $params["domain"],              $params["secure"], $params["httponly"]          );      }      setcookie("remember\_me", "", time() - 3600, "/");      header("Location: ?page=login");      exit();  }  $error = "";  if ($\_SERVER["REQUEST\_METHOD"] == "POST") {      $username = $\_POST["username"];      $password = $\_POST["password"];      $valid\_username = "Prince";      $valid\_password = "Prince@123";      if ($username === $valid\_username && $password === $valid\_password) {          $\_SESSION['loggedin'] = true;          $\_SESSION['username'] = $username;          header("Location: ?page=dashboard");          exit();      } else {          $error = "Invalid username or password.";      }  }  $page = $\_GET['page'] ?? "login";  ?>  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>PHP Auth System</title>  </head>  <body>  <?php if ($page === "login" && (!isset($\_SESSION['loggedin']) || $\_SESSION['loggedin'] !== true)): ?>      <h2>Login</h2>      <form method="post" action="?page=login">          <label for="username">Username:</label><br>          <input type="text" id="username" name="username" required><br><br>          <label for="password">Password:</label><br>          <input type="password" id="password" name="password" required><br><br>          <button type="submit">Login</button>      </form>      <?php if (!empty($error)) { echo "<p style='color:red;'>$error</p>"; } ?>  <?php elseif ($page === "dashboard" && isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] === true): ?>      <h2>Welcome, <?php echo htmlspecialchars($\_SESSION['username']); ?>!</h2>      <p>This is your protected dashboard. You can view this page because you are logged in.</p>      <p><a href="?action=logout">Logout</a></p>  <?php else: ?>      <?php header("Location: ?page=login"); exit(); ?>  <?php endif; ?>  </body>  </html> |
| **Screenshot:** |  |

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| 8) | **Aim:** | Connect the “StudentHub” portal to a MySQL database to store and  Retrieve student/event data dynamically. Focus on insert, select, and  update operations  using PHP and ensure secure DB connectivity and error handling. |
| **Code:** | <?php  $host = "localhost";  $user = "root";  $pass = "";  $dbname = "studenthub";  $conn = new mysqli($host, $user, $pass, $dbname);  if ($conn->connect\_error) {      die("Connection failed: " . $conn->connect\_error);  }  if (isset($\_POST['insert'])) {      $name   = $\_POST['name'];      $email  = $\_POST['email'];      $course = $\_POST['course'];      $year   = $\_POST['year'];        $stmt = $conn->prepare("INSERT INTO students (name, email, course, year)  VALUES (?, ?, ?, ?)");      $stmt->bind\_param( "sssi",$name, $email, $course, $year);        if ($stmt->execute()) {          echo "<p> New student inserted successfully!</p>";      } else {          echo "<p> Error: " . $stmt->error . "</p>";      }  }  if (isset($\_POST['update'])) {      $id     = $\_POST['student\_id'];      $course = $\_POST['course'];      $year   = $\_POST['year'];      $stmt = $conn->prepare("UPDATE students SET course=?, year=?  WHERE student\_id=?");      $stmt->bind\_param("sii", $course, $year, $id);      if ($stmt->execute()) {          echo "<p>Record updated successfully!</p>";      } else {          echo "<p>Error: " . $stmt->error . "</p>";      }  }  if (isset($\_POST['select'])) {      $id = $\_POST['student\_id'];      $stmt = $conn->prepare("SELECT student\_id, name, email, course, year  FROM students WHERE student\_id=?");      $stmt->bind\_param("i", $id);      $stmt->execute();      $result = $stmt->get\_result();      if ($result->num\_rows > 0) {          echo "<table border='1'>                  <tr>                      <th>ID</th><th>Name</th><th>Email</th><th>Course</th>  <th>Year</th>                  </tr>";          while ($row = $result->fetch\_assoc()) {              echo "<tr>                      <td>".$row['student\_id']."</td>                      <td>".$row['name']."</td>                      <td>".$row['email']."</td>                      <td>".$row['course']."</td>                      <td>".$row['year']."</td>                    </tr>";          }          echo "</table>";      } else {          echo "No students found!";      }  }  ?>  <!DOCTYPE html>  <html>  <head>      <title>StudentHub Portal</title>  </head>  <body>      <h1> StudentHub Portal</h1>      <h2>Add Student</h2>      <form method="POST">           Name: <input type="text" name="name" required><br><br>          Email: <input type="email" name="email" required><br><br>          Course: <input type="text" name="course" required><br><br>          Year: <input type="number" name="year" required><br><br>          <input type="submit" name="insert" value="Add Student">      </form>      <hr>      <h2> Update Student</h2>      <form method="POST">          Student ID: <input type="number" name="student\_id" required><br><br>          New Course: <input type="text" name="course" required><br><br>          New Year: <input type="number" name="year" required><br><br>          <input type="submit" name="update" value="Update Student">      </form>      <hr>       <h2>Student Records</h2>      <form method="POST">          Student ID: <input type="text" name="student\_id"><br><br>          <input type="submit" name="select" value="select student">      </form>      <hr>  </body>  </html> |
| **Screenshot:** |  |

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| 9) | **Aim:** | Submit form data using PHP and store it in a text file |
| **Code:** | <!DOCTYPE html>  <html>  <head>      <title>Form Submission</title>  </head>  <body>      <h2>Submit Your Details</h2>      <form action="submit.php" method="POST">          Name: <input type="text" name="name" required><br><br>          Email: <input type="email" name="email" required><br><br>          <button type="submit">Submit</button>      </form>  </body>  </html>  <?php  if ($\_SERVER["REQUEST\_METHOD"] == "POST") {        $name  = $\_POST["name"];      $email = $\_POST["email"];      if (!empty($name) && !empty($email)) {            $file = fopen("data.txt", "a");          fwrite($file, "Name: $name | Email: $email ".PHP\_EOL);          fclose($file);          echo "<h3> Data submitted successfully!</h3>";          echo "<p>Thank you, <b>$name</b>. Your data has been saved.</p>";      } else {          echo "<h3> Error: All fields are required.</h3>";      }  } else {      echo "<h3>Invalid request</h3>";  }  ?> |
| **Screenshot:** |  |

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| 10) | **Aim:** | Develop a login/logout system with session handling. Secure dashboard access  should be granted only if the session is active. Use basic PHP session  management to store user authentication state. |
| **Code:** | **Login.php:-**  <?php  session\_start();  $users = [      "admin"    => ["password" => "admin@123", "role" => "admin"],      "student1" => ["password" => "stud123",    "role" => "user"],      "student2" => ["password" => "pass321",    "role" => "user"]  ];  if (isset($\_GET['action']) && $\_GET['action'] === "logout") {      session\_unset();      session\_destroy();      header("Location: ?page=login");      exit;  }  $error = "";  if ($\_SERVER["REQUEST\_METHOD"] == "POST") {      $username = $\_POST['username'];      $password = $\_POST['password'];      if (isset($users[$username]) && $users[$username]['password'] === $password) {          $\_SESSION['username'] = $username;          $\_SESSION['role']     = $users[$username]['role'];          header("Location: ?page=dashboard");          exit;      } else {          $error = "Invalid username or password!";      }  }  $page = $\_GET['page'] ?? "login";  ?>  <!DOCTYPE html>  <html>  <head>      <title>Simple Auth System</title>  </head>  <body>  <?php if ($page === "login" && !isset($\_SESSION['username'])): ?>      <h2>Login</h2>      <form method="POST">          Username: <input type="text" name="username" required><br><br>          Password: <input type="password" name="password" required><br><br>          <button type="submit">Login</button>      </form>      <p style="color:red;"><?php echo $error; ?></p>  <?php elseif ($page === "dashboard" && isset($\_SESSION['username'])): ?>      <h2>Welcome, <?php echo $\_SESSION['username']; ?>!</h2>      <p>Your role: <?php echo $\_SESSION['role']; ?></p>      <a href="?action=logout">Logout</a>  <?php else: ?>      <?php header("Location: ?page=login"); exit; ?>  <?php endif; ?>  </body>  </html>  **Logout.php:-**  <?php  session\_start();  session\_unset();  session\_destroy();  header("Location: login.php");  exit;  ?>  **dashboard.php:-**  <?php  session\_start();  if (!isset($\_SESSION['username'])) {      header("Location: login.php");      exit;  }  ?>  <!DOCTYPE html>  <html>  <head><title>Dashboard</title></head>  <body>      <h2>Welcome, <?php echo $\_SESSION['username']; ?>!</h2>      <p>Your role: <?php echo $\_SESSION['role']; ?></p>      <a href="logout.php">Logout</a>  </body>  </html> |
| **Screenshot:** |  |

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| 11) | **Aim:** | Implement student data insertion and retrieval from MySQL. Focus on  SELECT, INSERT, DELETE. Normalize DB schema and allow search by  name.  Sample Table: students (same as Practical 8) |
| **Code:** | <?php  $host = "localhost";  $user = "root";  $pass = "";  $dbname = "studenthub";  $conn = new mysqli($host, $user, $pass, $dbname);  if ($conn->connect\_error) {      die("Connection failed: " . $conn->connect\_error);  }  if (isset($\_POST['insert'])) {      $name   = $\_POST['name'];      $email  = $\_POST['email'];      $course = $\_POST['course'];      $year   = $\_POST['year'];        $stmt = $conn->prepare("INSERT INTO students (name, email, course, year)  VALUES (?, ?, ?, ?)");      $stmt->bind\_param( "sssi",$name, $email, $course, $year);        if ($stmt->execute()) {          echo "<p> New student inserted successfully!</p>";      } else {          echo "<p> Error: " . $stmt->error . "</p>";      }  }  if (isset($\_POST['select'])) {      $id = $\_POST['student\_id'];      $stmt = $conn->prepare("SELECT student\_id, name, email, course, year  FROM students WHERE student\_id=?");      $stmt->bind\_param("i", $id);      $stmt->execute();      $result = $stmt->get\_result();      if ($result->num\_rows > 0) {          echo "<h2>Student Record</h2>             <table border='1'>                  <tr>                      <th>ID</th><th>Name</th><th>Email</th><th>Course</th>  <th>Year</th>                  </tr>";          while ($row = $result->fetch\_assoc()) {              echo "<tr>                      <td>".$row['student\_id']."</td>                      <td>".$row['name']."</td>                      <td>".$row['email']."</td>                      <td>".$row['course']."</td>                      <td>".$row['year']."</td>                    </tr>";          }          echo "</table>";      } else {          echo "No students found!";      }  }   if (isset($\_POST['delete'])) {      $student\_id = $\_POST['student\_id'];        $stmt = $conn->prepare("DELETE FROM students WHERE student\_id=?");      $stmt->bind\_param( "i",$student\_id);        if ($stmt->execute()) {          echo "<p> student deleted successfully!</p>";      } else {          echo "<p> Error: " . $stmt->error . "</p>";      }  }  ?>  <!DOCTYPE html>  <html>  <head>      <title>StudentHub Portal</title>  </head>  <body>      <h1> StudentHub Portal</h1>      <h2>Add Student</h2>      <form method="POST">         Name: <input type="text" name="name" required><br><br>          Email: <input type="email" name="email" required><br><br>          Course: <input type="text" name="course" required><br><br>          Year: <input type="number" name="year" required><br><br>          <input type="submit" name="insert" value="Add Student">      </form>      <hr>       <h2> Select Student</h2>      <form method="POST">          Student ID: <input type="text" name="student\_id"><br><br>          <input type="submit" name="select" value="select student">      </form>      <hr>      <h2>Delete Students</h2>      <form method="POST">          Student ID: <input type="text" name="student\_id"><br><br>          <input type="submit" name="delete" value="delete student">      </form>      <hr>  </body>  </html> |
| **Screenshot:** |  |

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| 12) | **Aim:** | Develop complete CRUD functionality for managing events. Admin users can  add, view, update, and delete events. Reflect changes in the UI dynamically. |
| **Code:** | <?php  $host = "localhost";  $user = "root";  $pass = "";  $dbname = "events";  $conn = new mysqli($host, $user, $pass, $dbname);  if ($conn->connect\_error) {      die("Connection failed: " . $conn->connect\_error);  }  if (isset($\_POST['insert'])) {      $title   = $\_POST['title'];      $date  = $\_POST['date'];      $location = $\_POST['location'];      $status   = $\_POST['status'];        $stmt = $conn->prepare("INSERT INTO students ( title, date, location, status) VALUES (?, ?, ?, ?)");      $stmt->bind\_param( "ssss", $title, $date, $location, $status);        if ($stmt->execute()) {          echo "<p> New Event inserted successfully!</p>";      } else {          echo "<p> Error: " . $stmt->error . "</p>";      }  }  if (isset($\_POST['select'])) {      $event\_id = $\_POST['event\_id'];      $stmt = $conn->prepare("SELECT event\_id, title, date, location, status FROM students WHERE event\_id=?");      $stmt->bind\_param("i", $event\_id);      $stmt->execute();      $result = $stmt->get\_result();      if ($result->num\_rows > 0) {          echo "<h2>Event Record</h2>             <table border='1'>                  <tr>                      <th>ID</th><th>title</th><th>date</th><th>location</th><th>status/th>                  </tr>";          while ($row = $result->fetch\_assoc()) {              echo "<tr>                      <td>".$row['event\_id']."</td>                      <td>".$row['title']."</td>                      <td>".$row['date']."</td>                      <td>".$row['location']."</td>                      <td>".$row['status']."</td>                    </tr>";          }          echo "</table>";      } else {          echo "No students found!";      }  }   if (isset($\_POST['delete'])) {      $event\_id = $\_POST['event\_id'];        $stmt = $conn->prepare("DELETE FROM students WHERE event\_id=?");      $stmt->bind\_param( "i",$event\_id);        if ($stmt->execute()) {          echo "<p> student deleted successfully!</p>";      } else {          echo "<p> Error: " . $stmt->error . "</p>";      }  }  ?>  <!DOCTYPE html>  <html>  <head>      <title>StudentHub Portal</title>  </head>  <body>      <h1> Events Detail Portal</h1>      <h2>Add Event</h2>      <form method="POST">          title: <input type="text" name="title" required><br><br>          date: <input type="text" name="date" required><br><br>          location: <input type="text" name="location" required><br><br>          status: <input type="text" name="status" required><br><br>          <input type="submit" name="insert" value="Add Student">      </form>      <hr>       <h2> Select Event</h2>      <form method="POST">         Event ID: <input type="text" name="event\_id"><br><br>          <input type="submit" name="select" value="select student">      </form>      <hr>      <h2>Delete Event</h2>      <form method="POST">          Event ID: <input type="text" name="event\_id"><br><br>          <input type="submit" name="delete" value="delete student">      </form>      <hr>  </body>  </html> |
| **Screenshot:** |  |

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| 13) | **Aim:** | Implement validation, sanitization, and password hashing |
| **Code:** | **Config.php**  <?php  $host = "localhost";  $dbname = "auth\_demo";  $user = "root";  $pass = "";  try {      $pdo = new PDO("mysql:host=$host;dbname=$dbname;charset=utf8mb4", $user, $pass);      $pdo->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);  } catch (PDOException $e) {      die("Database connection failed: " . $e->getMessage());  }  $sql="  CREATE TABLE IF NOT EXIST users (    id INT AUTO\_INCREMENT PRIMARY KEY,    username VARCHAR(50) NOT NULL UNIQUE,    email VARCHAR(100) NOT NULL UNIQUE,    password VARCHAR(255) NOT NULL  )";  session\_start();  **Dashboard.php:-**  <?php  require "config.php";  if (!isset($\_SESSION["user"])) {      header("Location: login.php");      exit;  }  ?>  <!DOCTYPE html>  <html>  <head><title>Dashboard</title></head>  <body>  <h2>Welcome, <?= htmlspecialchars($\_SESSION["user"]) ?>!</h2>  <p>You are logged in.</p>  <a href="logout.php">Logout</a>  </body>  </html>  **Functions.php:-**  <?php  declare(strict\_types=1);  function generate\_csrf\_token(): string {      if (empty($\_SESSION['csrf\_token'])) {          $\_SESSION['csrf\_token'] = bin2hex(random\_bytes(32));      }      return $\_SESSION['csrf\_token'];  }  function verify\_csrf\_token(?string $token): bool {      if (empty($token) || empty($\_SESSION['csrf\_token'])) return false;      return hash\_equals($\_SESSION['csrf\_token'], $token);  }  function sanitize\_text(string $s): string {      $s = trim($s);      $s = preg\_replace('/[\x00-\x1F\x7F]/u', '', $s);      return $s;  }  function validate\_username(string $username): ?string {      $username = sanitize\_text($username);      if ($username === '') return 'Username is required.';      if (!preg\_match('/^[a-zA-Z0-9\_]{3,30}$/', $username)) {          return 'Username must be 3-30 characters and contain only letters, numbers and underscores.';      }      return null;  }  function validate\_email(string $email): ?string {      $email = filter\_var($email, FILTER\_SANITIZE\_EMAIL);      if ($email === false || $email === '') return 'Email is required.';      if (!filter\_var($email, FILTER\_VALIDATE\_EMAIL)) return 'Email is not valid.';      return null;  }  function validate\_password(string $pw): ?string {      if ($pw === '') return 'Password is required.';      if (mb\_strlen($pw) < 8) return 'Password must be at least 8 characters.';      if (!preg\_match('/[A-Za-z]/', $pw) || !preg\_match('/[0-9]/', $pw)) {          return 'Password must contain at least one letter and one number.';      }      return null;  }  **Login.php:-**  <?php  require "config.php";  $message = "";  if ($\_SERVER["REQUEST\_METHOD"] == "POST") {      $email = trim($\_POST["email"]);      $password = $\_POST["password"];      $sql = "SELECT \* FROM users WHERE email = ?";      $stmt = $pdo->prepare($sql);      $stmt->execute([$email]);      $user = $stmt->fetch();      if ($user && password\_verify($password, $user["password"])) {          $\_SESSION["user"] = $user["username"];          header("Location: dashboard.php");          exit;      } else {          $message = "Invalid email or password.";      }  }  ?>  <!DOCTYPE html>  <html>  <head><title>Login</title></head>  <body>  <h2>Login</h2>  <p style="color:red;"><?= $message ?></p>  <form method="post">      Email: <input type="email" name="email" required><br><br>      Password: <input type="password" name="password" required><br><br>      <button type="submit">Login</button>  </form>  </body>  </html>  **Logout.php:-**  <?php  require "config.php";  session\_destroy();  header("Location: login.php");  exit;  **Registter.php:-**  <?php  require "config.php";  $message = "";  if ($\_SERVER["REQUEST\_METHOD"] == "POST") {      $username = trim($\_POST["username"]);      $email = trim($\_POST["email"]);      $password = $\_POST["password"];      if (!empty($username) && !empty($email) && !empty($password)) {          $check = $pdo->prepare("SELECT id FROM users WHERE username = ? OR email = ?");          $check->execute([$username, $email]);          if ($check->fetch()) {              $message = "Error: Username or email already exists.";          } else {              $hashed = password\_hash($password, PASSWORD\_DEFAULT);              $sql = "INSERT INTO users (username, email, password) VALUES (?, ?, ?)";              $stmt = $pdo->prepare($sql);              try {                  $stmt->execute([$username, $email, $hashed]);                  $message = "Registration successful! <a href='login.php'>Login here</a>";              } catch (PDOException $e) {                  $message = "Database Error: " . $e->getMessage();              }          }      } else {          $message = "All fields are required.";      }  }  ?>  <!DOCTYPE html>  <html>  <head><title>Register</title></head>  <body>  <h2>Register</h2>  <p style="color:green;"><?= $message ?></p>  <form method="post">      Username: <input type="text" name="username" required><br><br>      Email: <input type="email" name="email" required><br><br>      Password: <input type="password" name="password" required><br><br>      <button type="submit">Register</button>  </form>  </body>  </html> |
| **Screenshot:** |  |

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| 14) | **Aim:** | Develop an admin dashboard to view/manage users |
| **Code:** | <?php  session\_start();  $host = "localhost";  $dbname = "auth\_demo";  $dbuser = "root";  $dbpass = "";  try {      $pdo = new PDO("mysql:host=$host;dbname=$dbname;charset=utf8", $dbuser, $dbpass);      $pdo->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);  } catch (PDOException $e) {      die("DB Connection Failed: " . $e->getMessage());  }  $admin\_email = "admin@example.com";  $admin\_pass = "admin123";  if (!isset($\_SESSION['is\_admin'])) {      if ($\_SERVER['REQUEST\_METHOD'] == 'POST' && isset($\_POST['email'], $\_POST['password'])) {          if ($\_POST['email'] === $admin\_email && $\_POST['password'] === $admin\_pass) {              $\_SESSION['is\_admin'] = true;          } else {              $error = "Invalid admin login!";          }      } else {          // show login form          echo '<h2>Admin Login</h2>';          if (!empty($error)) echo "<p style='color:red;'>$error</p>";          echo '<form method="post">                  Email: <input type="email" name="email" required><br>                  Password: <input type="password" name="password" required><br>                  <button type="submit">Login</button>                </form>';          exit;      }  }  // DELETE USER  if (isset($\_GET['delete'])) {      $stmt = $pdo->prepare("DELETE FROM users WHERE id = ?");      $stmt->execute([$\_GET['delete']]);      header("Location: ".$\_SERVER['PHP\_SELF']);      exit;  }  // UPDATE USER  if (isset($\_POST['update\_id'])) {      $stmt = $pdo->prepare("UPDATE users SET username=?, email=? WHERE id=?");      $stmt->execute([$\_POST['username'], $\_POST['email'], $\_POST['update\_id']]);      header("Location: ".$\_SERVER['PHP\_SELF']);      exit;  }  // FETCH USERS  $users = $pdo->query("SELECT \* FROM users ORDER BY id ASC")->fetchAll();  ?>  <h2>Admin Dashboard</h2>  <p>Welcome, Admin | <a href="?logout=1">Logout</a></p>  <?php  // Logout  if (isset($\_GET['logout'])) {      session\_destroy();      header("Location: ".$\_SERVER['PHP\_SELF']);      exit;  }  ?>  <h3>User List</h3>  <table border="1" cellpadding="6">  <tr><th>ID</th><th>Username</th><th>Email</th><th>Actions</th></tr>  <?php foreach ($users as $u): ?>  <tr>      <td><?= htmlspecialchars($u['id']) ?></td>      <td><?= htmlspecialchars($u['username']) ?></td>      <td><?= htmlspecialchars($u['email']) ?></td>      <td>          <a href="?edit=<?= $u['id'] ?>">Edit</a> |          <a href="?delete=<?= $u['id'] ?>" onclick="return confirm('Delete user?');">Delete</a>      </td>  </tr>  <?php endforeach; ?>  </table>  <?php  // EDIT FORM  if (isset($\_GET['edit'])) {      $stmt = $pdo->prepare("SELECT \* FROM users WHERE id=?");      $stmt->execute([$\_GET['edit']]);      $editUser = $stmt->fetch();      if ($editUser):  ?>  <h3>Edit User ID <?= $editUser['id'] ?></h3>  <form method="post">      <input type="hidden" name="update\_id" value="<?= $editUser['id'] ?>">      Username: <input type="text" name="username" value="<?= htmlspecialchars($editUser['username']) ?>" required><br>      Email: <input type="email" name="email" value="<?= htmlspecialchars($editUser['email']) ?>" required><br>      <button type="submit">Update</button>  </form>  <?php      endif;  }  ?> |
| **Screenshot:** |  |