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| **Course Name:** | **Web Programming Laboratory** | **Semester:** | **V** |
| **Date of Performance:** | **23 / 07 / 2024** | **Batch No:** | **B - 1** |
| **Faculty Name:** | **Prof. Madhura Pednekar** | **Roll No:** | **16014022050** |
| **Faculty Sign & Date:** |  | **Grade / Marks:** | **\_\_\_ / 25** |

**Experiment No: 1**

**Title: Design the static web pages with the help of HTML5**

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| **Aim and Objective of the Experiment:** |
| **Design the static web pages with the help of HTML5 and CSS.** |

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| **COs to be achieved:** |
| **CO2:** Design responsive webpages using HTML, CSS, and Bootstrap, improving user inter faces. |

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| **Apparatus / Software Used:** |
| * **VS Code** |

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| **Problem Statement:** |
| **Design the static web pages with the help of HTML5 and CSS**  Example:  Implement a web page of your “About You” using HTML  Implement a static webpage linking page information (Home, Login, Research, Contact) using CSS in the “About You” page |

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| **HTML tags used:** |
| Few of the HTML tags used were -   <!DOCTYPE html>, <html>, <head>, <meta>, <title>, <link>, <body>, <header>, <nav>, <ul>, <li>, <a>, <main>, <section>, <h2>, <div>, <img>, <p> |

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| **Code:** |
| **home.html:**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>home</title>      <link rel="stylesheet" href="style.css">  </head>  <body>      <header>          <nav>              <ul>                  <li><a href="home.html">Home</a></li>                  <li><a href="aboutme.html">About Me</a></li>                  <li><a href="resume.html">Resume</a></li>                  <li><a href="contact.html">Contact</a></li>              </ul>          </nav>      </header>      <main>          <section id="home" class="home-section">              <img src="images\profile photo.jpeg" alt="Ketaki Mahajan" class="profile-pic">              <div class="intro-text">                  <h1>Hello, <br>I am Ketaki.</h1>                  <p class="welcome-message">Welcome to my portfolio!</p>              </div>          </section>      </main>  </body>  </html> |
| **aboutme.html**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>About Me</title>      <link rel="stylesheet" href="st.css">  </head>  <body>      <header>          <nav>              <ul>                  <li><a href="home.html">Home</a></li>                  <li><a href="aboutme.html">About Me</a></li>                  <li><a href="resume.html">Resume</a></li>                  <li><a href="contact.html">Contact</a></li>              </ul>          </nav>      </header>      <main>          <section id="about-me" class="section">              <h2>About Me</h2>              <div class="about-content">                  <img src="images\robo photo.jpeg" alt="Ketaki Mahajan" class="profile-pic">                  <div class="text-content">                      <p>                          I am a third-year student at K.J. Somaiya College of Engineering, pursuing a degree in Electronics and Computer Engineering. I serve as the Head of the MATLAB and Image Processing Department at the Mega Project Team KJSCE Robocon. My passion lies in machine learning, and I aspire to pursue a career in this field in the future. Besides my academic interests, I enjoy reading books and watching movies.                      </p>                  </div>              </div>          </section>      </main>  </body>  </html> |
| **login.html**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Login</title>      <link rel="stylesheet" href="styles.css">  </head>  <body>      <div class="loginContainer">          <h2>Login</h2>          <form action="home.html" method="get">              <div class="form-group">                  <input type="text" id="username" placeholder="Username" required>                  <input type="password" id="password" placeholder="Password" required>                  <button type="submit" id="btn">Submit</button>                  <!-- <a href="home.html" class="button">Submit</a> -->              </div>          </form>      </div>  </body>  </html> |
| **resume.html**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>resume</title>      <link rel="stylesheet" href="st.css">  </head>  <body>      <header>          <nav>              <ul>                  <li><a href="home.html">Home</a></li>                  <li><a href="aboutme.html">About Me</a></li>                  <li><a href="resume.html">Resume</a></li>                  <li><a href="contact.html">Contact</a></li>              </ul>          </nav>      </header>      <main>          <section id="resume" class="section">              <h2>Resume</h2>              <div class="resume-content">                  <h3>Ketaki Mahajan</h3>                  <p>Email: <a href="mailto:ketaki.mahajan@somaiya.edu">ketaki.mahajan@somaiya.edu</a></p>                  <p>LinkedIn: <a href="https://www.linkedin.com/in/ketaki-mahajan">Ketaki Mahajan</a></p>                  <p>GitHub: <a href="https://github.com/ketakimahajan">ketakimahajan</a></p>                  <hr>                    <h3>Profile Summary</h3>                  <p>A second-year B-Tech student in Electronics and Computer Engineering at K.J. Somaiya College of Engineering, demonstrating a proactive approach to blending technical skills with a creative mindset. Effective communicator with a focus on building professional relationships and a keen interest in machine learning development.</p>                  <hr>                    <h3>Education</h3>                  <div>                      <p><strong>K.J. Somaiya College of Engineering</strong><br>                      Bachelor of Technology in Electronics and Computer Engineering with Honours in Data Science<br>                      <span>Oct 2022 - Present</span></p>                        <p><strong>Podar International School, Thane</strong><br>                      Higher Secondary Certificate Examination (Cambridge AS & A levels)<br>                      <span>Sep 2020 - July 2022</span></p>                        <p><strong>Dr. Pillai Global Academy, Navi Mumbai</strong><br>                      Attained 85% in International Certificate of Secondary Education (IGCSE)<br>                      <span>Aug 2017 - July 2020</span></p>                  </div>                  <hr>                    <h3>Relevant Skills</h3>                  <div>                      <p><strong>Languages:</strong> Python, Java, C, C++, HTML5, CSS3, MATLAB</p>                      <p><strong>Data Science:</strong> Data Visualization, Machine Learning, Statistics</p>                      <p><strong>Machine Learning:</strong> Python, OpenCV, Numpy, TensorFlow, Pytorch, Image Processing, Convolution Neural Network</p>                      <p><strong>Tech Tools:</strong> Git, GitHub, Microsoft Office</p>                      <p><strong>Soft Skills:</strong> Leadership, Communication, Collaboration, Adaptability</p>                  </div>                  <hr>                    <h3>Experience</h3>                  <div>                      <p><strong>MATLAB & Image Processing Senior Member, Team KJSCE Robocon</strong><br>                      Aug 2023 - Present<br>                      Working on building various deep learning models and computer vision algorithms in alignment with the 2024 Robocon theme.</p>                        <p><strong>MATLAB & Image Processing Team Member, Team KJSCE Robocon</strong><br>                      Dec 2022 - July 2023<br>                      Responsible for making robot simulations on various mechanisms for the team competing for DD Robocon.<br>                      Looked into making robot functioning autonomous by using various image processing tools and algorithms.<br>                      Built a custom yolov5 model for pole detection for the DD Robocon competition and deployed it on the robot making it autonomous.<br>                      Secured AIR 1 rank in MathWorks Modeling award at DD Robocon 2023, national level held at IIT Delhi.</p>                  </div>                  <hr>                    <h3>Courses</h3>                  <div>                      <p>Machine Learning Specialization (by Stanford University) - Coursera</p>                      <p>Java 17 Masterclass (by Tim Buchalka) - Udemy</p>                  </div>              </div>          </section>      </main>  </body>  </html> |
| **contact.html**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Contact Me - Ketaki Mahajan</title>      <link rel="stylesheet" href="st.css">  </head>  <body>      <header>          <nav>              <ul>                  <li><a href="home.html">Home</a></li>                  <li><a href="aboutme.html">About Me</a></li>                  <li><a href="resume.html">Resume</a></li>                  <li><a href="contact.html">Contact</a></li>              </ul>          </nav>      </header>      <main>          <section id="contact" class="section">              <h2>Contact Me</h2>              <div class="contact-content">                  <div class="contact-item">                      <h3>Connect with me</h3>                      <p><a href="https://github.com/ketakiimahajan" target="\_blank" class="contact-link">GitHub</a></p>                      <p><a href="https://www.linkedin.com/in/ketaki-mahajan-7aa884277/" target="\_blank" class="contact-link">LinkedIn</a></p>                      <p><a href="https://www.instagram.com/ketaki\_.\_" target="\_blank" class="contact-link">Instagram</a></p>                  </div>                  <hr>                  <div class="contact-item">                      <h3>Reach out</h3>                      <p>Phone: <a href="tel: +919833695811" class="contact-link">+91 9833695811</a></p>                      <p>Email: <a href="mailto:ketaki.mahajan@somaiya.edu" class="contact-link">ketaki.mahajan@somaiya.edu</a></p>                  </div>              </div>          </section>      </main>  </body>  </html> |
| **styles.css**  /\* Combined CSS - styles.css \*/  /\* General Styles \*/  body {      font-family: 'Arial', sans-serif;      background-color: #e6f7ff;      color: #333;      margin: 0;      padding: 0;  }  header {      background-color: #b3e0ff;      padding: 1rem 0;      text-align: center;  }  nav ul {      list-style-type: none;      margin: 0;      padding: 0;  }  nav ul li {      display: inline;      margin: 0 15px;  }  nav ul li a {      text-decoration: none;      color: #007acc;      font-weight: bold;  }  nav ul li a:hover {      text-decoration: underline;  }  /\* Home Page Styles \*/  .home-section {      display: flex;      align-items: center;      justify-content: center;      width: 80%;      height: 80vh;  }  .profile-pic {      border-radius: 50%;      width: 350px;      height: 350px;      object-fit: cover;      margin-right: 40px;  }  .intro-text {      text-align: left;  }  h1 {      font-size: 2.5rem;      color: #007acc;  }  .welcome-message {      font-size: 1.5rem;      color: #007acc;      margin-top: 10px;      background-color: #b3e0ff;      padding: 10px;      border-radius: 10px;  }  /\* About Me Page Styles \*/  .about-content {      display: flex;      align-items: center;      justify-content: center;      text-align: left;  }  .profile-pic {      border-radius: 50%;      width: 200px;      height: 200px;      object-fit: cover;      margin-right: 80px;  }  .text-content p {      color: #333;      font-size: 1.2rem;      line-height: 1.6;  }  .text-content {      max-width: 60%;  }  /\* Contact and Resume Pages Styles \*/  main {      display: flex;      flex-direction: column;      align-items: center;      justify-content: center;      min-height: 80vh;      background-image: url('path/to/your/background-image.jpg');      background-size: cover;      background-attachment: fixed;  }  .section {      width: 80%;      margin: 2rem 0;      padding: 2rem;      background-color: rgba(255, 255, 255, 0.9);      border-radius: 10px;      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);      text-align: left;  }  .section h2 {      color: #007acc;      margin-bottom: 1rem;      font-size: 2rem;      text-align: center;  }  .section h3 {      font-size: 1.5rem;      margin-bottom: 0.5em;  }  .section p {      margin-top: 0;      margin-bottom: 1em;  }  hr {      border: none;      border-top: 1px solid #ccc;      margin: 1.5em 0;  }  /\* Login Page Styles \*/  \* {      box-sizing: border-box;      margin: 0;      padding: 0;  }  body {      width: 100%;      height: 100vh;      background-image: url("images/background.jpg");      background-size: cover;      display: flex;      justify-content: center;      align-items: center;      font-family: Arial, Helvetica, sans-serif;  }  .loginContainer {      background: rgba(139, 139, 139, 0.229);      border-radius: 10px;      backdrop-filter: blur(5px);      padding: 40px;      max-width: 400px;      width: 100%;      box-shadow: 0 15px 25px rgba(97, 97, 97, 0.122);      display: flex;      flex-direction: column;      justify-content: center;      align-items: center;  }  h2 {      text-align: center;      color: #00265a;      margin-bottom: 30px;      font-size: 30px;  }  .form-group input {      width: 100%;      padding: 10px;      margin-bottom: 20px;      border: 1px solid #ccc;      border-radius: 10px;  }  #btn {      background-color: #00265a;      color: #ffffff;      padding: 8px 20px;      border: none;      border-radius: 10px;      cursor: pointer;      font-size: 15px;      outline: none;      margin: 10px 0;      width: 100%;  }  .forgot-password {      color: #00265a;      text-decoration: none;      font-size: 14px;      margin-top: 10px;  }  .forgot-password:hover {      text-decoration: underline;  } |

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| **Stepwise-Procedure / Algorithm:** |
| 1. Write own HTML code. 2. Upload the screenshots of the output. 3. Attach the Html page Generated website. |

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| **Output:** |
| **login.html** |
| **home.html** |
| **aboutme.html** |
| **resume.html** |
| **contact.html** |

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| **Post Lab Subjective / Objective type Questions:** |
| **Students need to mention and explain with syntax the tags used for problem statement they have selected.**  In HTML, various tags are used to structure and define different parts of a web document. The <!DOCTYPE html> tag declares the document type and version, ensuring proper rendering by the browser. The <html> tag encompasses the entire HTML document, with the lang attribute specifying the language. Inside the <html> tag, the <head> section contains meta-information such as the <meta> tags for character encoding and viewport settings, and the <title> tag for the document’s title, which appears in the browser tab.  The <link> tag within the <head> connects external resources like stylesheets to the document. The <body> tag houses the content visible to users. Within the <body>, the <header> tag often includes introductory content and navigation links, which are typically contained in a <nav> tag. Lists of navigation items are structured using <ul> (unordered list) and <li> (list item) tags, while <a> tags create hyperlinks to other pages or resources.  The main content of the page is generally enclosed in a <main> tag, with sections of content separated by <section> tags. For headings within sections, the <h2> tag (or other heading tags like <h1>, <h3>, etc.) is used to denote the importance and hierarchy of the headings. The <div> tag is a versatile container used to group and style content. Images are embedded with the <img> tag, which requires src for the image source and alt for alternative text. Lastly, paragraphs of text are defined using the <p> tag. |

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| **Conclusion:** |
| Through this experiment, we gained hands-on experience in HTML and CSS by creating a functional and visually appealing portfolio website. By implementing key pages such as a resume, contact page, about me section, and login page, we effectively applied our skills to build a cohesive and professional online presence. |

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| **Signature of faculty in-charge with Date:** |