# Department of Computing

**CS344: Web Engineering**

**Class: Fall 2025**

# Lab 2: Personal Portfolio

## Date: September 18, 2025

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# Lab 2: Personal Portfolio

### ****Introduction****

In this lab, you will create a **personal portfolio website** from scratch using **HTML and CSS**. The portfolio should include multiple pages, personal details, images, and styling to present yourself in a professional and creative way.

### ****Objectives****

The main objective of this lab is to:

* Build a complete multi-page HTML portfolio from scratch.
* Apply **inline and internal CSS styling** to improve presentation.
* Practice linking multiple web pages together using **hyperlinks**.
* Organize personal information (skills, hobbies, contact, images, etc.) into structured web pages.

### ****Tools / Software Requirements****

* Any text editor (e.g., Notepad, VS Code, Sublime Text)
* A modern web browser (e.g., Chrome, Edge, Firefox)
* Internet access for reference (Google, Bing, DuckDuckGo, etc.)

### ****Description****

You are required to design a **multi-page personal portfolio website** from scratch. Your portfolio should:

* Contain **at least 5 different pages** (Home, Hobbies, Contact Me, Image Gallery, Personal Skills).
* Include personal information such as your **name, hobbies, skills, and contact details**.
* Use **hyperlinks** to connect all pages (at least from home.html).
* Insert at least **5 images** and display them in an **image gallery**.
* Apply **inline or internal CSS styling** (no external CSS files allowed).
* Ensure proper structure and navigation between all pages.

Once completed, test your website in a browser, compress all files into a **.zip folder**, and upload it to LMS.

### ****Pitfalls to Avoid****

* Forgetting to upload the solution to LMS.
* Missing links between pages (broken navigation).
* Not following the requirement to use **inline/internal CSS only**.

### ****Lab Tasks****

1. Create a portfolio website from scratch.
2. Add at least the following pages:
   * **Home**
   * **Hobbies**
   * **Contact Me**
   * **Image Gallery** (with at least 5 images)
   * **Personal Skills** (e.g., programming languages, spoken languages, or other skills)
3. Use **inline or internal CSS** for styling.
4. Ensure smooth **navigation** between all pages using hyperlinks.

### ****Deliverables****

Each student must submit an individual solution containing:

* Source code of all web pages.
* Files compressed into a single **.zip folder**.
* Naming convention for the folder:
  + Name – RegistrationNo – Section
* Upload the .zip file to LMS before the deadline.

Solution:

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 | Muhammad Nauman Hashir</title>

  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">

  <style>

    :root {

      --primary-color: #00ffe0;

      --text-color: #fff;

      --background-start: #adbab9;

      --background-end: #4daddd;

      --shadow-color: rgba(0, 0, 0, 0.15);

    }

    body {

      margin: 0;

      font-family: 'Poppins', sans-serif;

      background: linear-gradient(135deg, var(--background-start), var(--background-end));

      color: var(--text-color);

      text-shadow: 0 1px 2px var(--shadow-color); /\* Improve text readability \*/

    }

    header {

      background: rgba(0, 0, 0, 0.6); /\* Fallback \*/

      backdrop-filter: blur(4px);

      padding: 30px 0;

      text-align: center;

    }

    header h1 {

      font-size: 2.5em;

      margin: 0;

      letter-spacing: 1px;

    }

    nav {

      margin-top: 10px;

      display: flex;

      justify-content: center;

      gap: 15px;

    }

    nav a {

      color: var(--text-color);

      text-decoration: none;

      font-weight: 600;

      position: relative;

      transition: color 0.3s;

    }

    nav a.active {

      color: var(--primary-color);

      pointer-events: none;

    }

    nav a::after {

      content: '';

      position: absolute;

      width: 0;

      height: 2px;

      left: 0;

      bottom: -4px;

      background: var(--primary-color);

      transition: width 0.3s;

    }

    nav a:hover {

      color: var(--primary-color);

    }

    nav a:hover::after {

      width: 100%;

    }

    .container {

      max-width: 900px;

      margin: 60px auto;

      background: rgba(255, 255, 255, 0.2); /\* Fallback \*/

      backdrop-filter: blur(6px);

      padding: 85px;

      border-radius: 15px;

      box-shadow: 0 4px 10px var(--shadow-color);

      text-align: center;

      animation: fadeIn 1s ease-in;

    }

    .container h2 {

      font-size: 2em;

      margin-top: 0;

    }

    footer {

      text-align: center;

      padding: 20px;

      background: rgba(0, 0, 0, 0.6); /\* Fallback \*/

      backdrop-filter: blur(4px);

      margin-top: 40px;

    }

    @keyframes fadeIn {

      from { opacity: 0; }

      to { opacity: 1; }

    }

    /\* Responsive design \*/

    @media (max-width: 600px) {

      header h1 {

        font-size: 1.8em;

      }

      nav {

        flex-direction: column;

        gap: 10px;

      }

      nav a {

        margin: 5px 0;

        font-size: 0.9em;

      }

      .container {

        margin: 20px;

        padding: 20px;

      }

    }

  </style>

</head>

<body>

  <header role="banner">

    <h1>Muhammad Nauman Hashir</h1>

    <nav role="navigation">

      <a href="home.html" class="active">Home</a>

      <a href="hobbies.html">Hobbies</a>

      <a href="skills.html">Skills</a>

      <a href="gallery.html">Gallery</a>

      <a href="contact.html">Contact</a>

    </nav>

  </header>

  <div class="container">

    <h2>Welcome</h2>

    <p>I’m a 5th-semester Software Engineering student at NUST, exploring machine learning, deep learning, and full-stack development.</p>

  </div>

  <footer>

    <p>&copy; 2025 Muhammad Nauman Hashir. All rights reserved.</p>

  </footer>

</body>

</html>

hobbies.html:

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Hobbies | Muhammad Nauman Hashir</title>

  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">

  <style>

    :root {

      --primary-color: #00ffe0;

      --text-color: #fff;

      --background-start: #adbab9;

      --background-end: #4daddd;

      --shadow-color: rgba(0, 0, 0, 0.15);

    }

    body {

      margin: 0;

      font-family: 'Poppins', sans-serif;

      background: linear-gradient(135deg, var(--background-start), var(--background-end));

      color: var(--text-color);

      text-shadow: 0 1px 2px var(--shadow-color);

    }

    header {

      background: rgba(0, 0, 0, 0.6);

      backdrop-filter: blur(4px);

      padding: 30px 0;

      text-align: center;

    }

    header h1 {

      font-size: 2.5em;

      margin: 0;

      letter-spacing: 1px;

    }

    nav {

      margin-top: 10px;

      display: flex;

      justify-content: center;

      gap: 15px;

    }

    nav a {

      color: var(--text-color);

      text-decoration: none;

      font-weight: 600;

      position: relative;

      transition: color 0.3s;

    }

    nav a.active {

      color: var(--primary-color);

      pointer-events: none;

    }

    nav a::after {

      content: '';

      position: absolute;

      width: 0;

      height: 2px;

      left: 0;

      bottom: -4px;

      background: var(--primary-color);

      transition: width 0.3s;

    }

    nav a:hover {

      color: var(--primary-color);

    }

    nav a:hover::after {

      width: 100%;

    }

    .container {

      max-width: 900px;

      margin: 60px auto;

      background: rgba(255, 255, 255, 0.2);

      backdrop-filter: blur(6px);

      padding: 65px;

      border-radius: 15px;

      box-shadow: 0 4px 10px var(--shadow-color);

      text-align: left;

      animation: fadeIn 1s ease-in;

    }

    .container h2 {

      font-size: 2em;

      margin-top: 0;

      text-align: center;

    }

    .container ul {

      list-style: disc;

      padding-left: 40px;

      line-height: 1.8;

    }

    footer {

      text-align: center;

      padding: 20px;

      background: rgba(0, 0, 0, 0.6);

      backdrop-filter: blur(4px);

      margin-top: 40px;

    }

    @keyframes fadeIn {

      from { opacity: 0; }

      to { opacity: 1; }

    }

    @media (max-width: 600px) {

      header h1 { font-size: 1.8em; }

      nav { flex-direction: column; gap: 10px; }

      nav a { margin: 5px 0; font-size: 0.9em; }

      .container { margin: 20px; padding: 20px; }

    }

  </style>

</head>

<body>

  <header role="banner">

    <h1>Muhammad Nauman Hashir</h1>

    <nav role="navigation">

      <a href="home.html">Home</a>

      <a href="hobbies.html" class="active">Hobbies</a>

      <a href="skills.html">Skills</a>

      <a href="gallery.html">Gallery</a>

      <a href="contact.html">Contact</a>

    </nav>

  </header>

  <div class="container">

    <h2>My Hobbies</h2>

    <ul>

      <li>Solving LeetCode problems</li>

      <li>Reading machine-learning research papers</li>

      <li>Building side projects with Python & Django</li>

    </ul>

  </div>

  <footer>

    <p>&copy; 2025 Muhammad Nauman Hashir. All rights reserved.</p>

  </footer>

</body>

</html>

skills.html:

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Skills | Muhammad Nauman Hashir</title>

  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">

  <style>

    :root {

      --primary-color: #00ffe0;

      --text-color: #fff;

      --background-start: #adbab9;

      --background-end: #4daddd;

      --shadow-color: rgba(0, 0, 0, 0.15);

    }

    body {

      margin: 0;

      font-family: 'Poppins', sans-serif;

      background: linear-gradient(135deg, var(--background-start), var(--background-end));

      color: var(--text-color);

      text-shadow: 0 1px 2px var(--shadow-color);

    }

    header {

      background: rgba(0, 0, 0, 0.6);

      backdrop-filter: blur(4px);

      padding: 30px 0;

      text-align: center;

    }

    header h1 {

      font-size: 2.5em;

      margin: 0;

      letter-spacing: 1px;

    }

    nav {

      margin-top: 10px;

      display: flex;

      justify-content: center;

      gap: 15px;

    }

    nav a {

      color: var(--text-color);

      text-decoration: none;

      font-weight: 600;

      position: relative;

      transition: color 0.3s;

    }

    nav a.active {

      color: var(--primary-color);

      pointer-events: none;

    }

    nav a::after {

      content: '';

      position: absolute;

      width: 0;

      height: 2px;

      left: 0;

      bottom: -4px;

      background: var(--primary-color);

      transition: width 0.3s;

    }

    nav a:hover {

      color: var(--primary-color);

    }

    nav a:hover::after {

      width: 100%;

    }

    .container {

      max-width: 900px;

      margin: 60px auto;

      background: rgba(255, 255, 255, 0.2);

      backdrop-filter: blur(6px);

      padding: 0px;

      border-radius: 15px;

      box-shadow: 0 4px 10px var(--shadow-color);

      text-align: center;

      animation: fadeIn 1s ease-in;

    }

    .container h2 {

      font-size: 2em;

      margin-top: 0;

    }

    table {

      width: 100%;

      border-collapse: collapse;

      margin-top: 20px;

      color: #fff;

      text-align: left;

    }

    th, td {

      border-bottom: 1px solid rgba(255,255,255,0.3);

      padding: 12px 15px;

    }

    th {

      background: rgba(0,0,0,0.3);

      font-weight: 600;

    }

    tr:hover {

      background: rgba(255,255,255,0.1);

    }

    footer {

      text-align: center;

      padding: 20px;

      background: rgba(0, 0, 0, 0.6);

      backdrop-filter: blur(4px);

      margin-top: 40px;

    }

    @keyframes fadeIn {

      from { opacity: 0; }

      to { opacity: 1; }

    }

    @media (max-width: 600px) {

      header h1 { font-size: 1.8em; }

      nav { flex-direction: column; gap: 10px; }

      nav a { margin: 5px 0; font-size: 0.9em; }

      .container { margin: 20px; padding: 20px; }

      table, th, td { font-size: 0.9em; }

    }

  </style>

</head>

<body>

  <header role="banner">

    <h1>Muhammad Nauman Hashir</h1>

    <nav role="navigation">

      <a href="home.html">Home</a>

      <a href="hobbies.html">Hobbies</a>

      <a href="skills.html" class="active">Skills</a>

      <a href="gallery.html">Gallery</a>

      <a href="contact.html">Contact</a>

    </nav>

  </header>

  <div class="container">

    <h2>Technical Skills</h2>

    <table>

      <tr><th>Category</th><th>Details</th></tr>

      <tr><td>Programming</td><td>Python, C++, Java</td></tr>

      <tr><td>Frameworks</td><td>Django, React.js</td></tr>

      <tr><td>ML/DL</td><td>TensorFlow, PyTorch, scikit-learn</td></tr>

      <tr><td>Tools</td><td>Git, VS Code, Jupyter</td></tr>

    </table>

  </div>

  <footer>

    <p>&copy; 2025 Muhammad Nauman Hashir. All rights reserved.</p>

  </footer>

</body>

</html>

gallery.html:

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Gallery | Muhammad Nauman Hashir</title>

  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">

  <style>

    :root {

      --primary-color: #00ffe0;

      --text-color: #fff;

      --background-start: #adbab9;

      --background-end: #4daddd;

      --shadow-color: rgba(0, 0, 0, 0.15);

    }

    body {

      margin: 0;

      font-family: 'Poppins', sans-serif;

      background: linear-gradient(135deg, var(--background-start), var(--background-end));

      color: var(--text-color);

      text-shadow: 0 1px 2px var(--shadow-color);

    }

    header {

      background: rgba(0, 0, 0, 0.6);

      backdrop-filter: blur(4px);

      padding: 30px 0;

      text-align: center;

    }

    header h1 {

      font-size: 2.5em;

      margin: 0;

      letter-spacing: 1px;

    }

    nav {

      margin-top: 10px;

      display: flex;

      justify-content: center;

      gap: 15px;

    }

    nav a {

      color: var(--text-color);

      text-decoration: none;

      font-weight: 600;

      position: relative;

      transition: color 0.3s;

    }

    nav a.active {

      color: var(--primary-color);

      pointer-events: none;

    }

    nav a::after {

      content: '';

      position: absolute;

      width: 0;

      height: 2px;

      left: 0;

      bottom: -4px;

      background: var(--primary-color);

      transition: width 0.3s;

    }

    nav a:hover {

      color: var(--primary-color);

    }

    nav a:hover::after {

      width: 100%;

    }

    .container {

      max-width: 1000px;

      margin: 60px auto;

      background: rgba(255, 255, 255, 0.2);

      backdrop-filter: blur(6px);

      padding: 60px;

      border-radius: 15px;

      box-shadow: 0 4px 10px var(--shadow-color);

      text-align: center;

      animation: fadeIn 1s ease-in;

    }

    .container h2 {

      font-size: 2em;

      margin-top: 0;

    }

    .gallery-grid {

  display: grid;

  grid-template-columns: repeat(auto-fit, minmax(120px, 1fr));

  gap: 20px;

  margin-top: 20px;

}

.gallery-grid img {

  width: 100%;

  height: 120px;

  object-fit: cover;

  border-radius: 12px;

  box-shadow: 0 2px 8px rgba(0,0,0,0.2);

  transition: transform 0.3s;

}

.gallery-grid img {

    width: 100%;

    border-radius: 12px;

    box-shadow: 0 2px 8px rgba(0,0,0,0.2);

    transition: transform 0.3s;

}

    .gallery-grid img:hover {

      transform: scale(1.05);

    }

    footer {

      text-align: center;

      padding: 20px;

      background: rgba(0, 0, 0, 0.6);

      backdrop-filter: blur(4px);

      margin-top: 40px;

    }

    @keyframes fadeIn {

      from { opacity: 0; }

      to { opacity: 1; }

    }

    @media (max-width: 600px) {

      header h1 { font-size: 1.8em; }

      nav { flex-direction: column; gap: 10px; }

      nav a { margin: 5px 0; font-size: 0.9em; }

      .container { margin: 20px; padding: 20px; }

    }

  </style>

</head>

<body>

  <header role="banner">

    <h1>Muhammad Nauman Hashir</h1>

    <nav role="navigation">

      <a href="home.html">Home</a>

      <a href="hobbies.html">Hobbies</a>

      <a href="skills.html">Skills</a>

      <a href="gallery.html" class="active">Gallery</a>

      <a href="contact.html">Contact</a>

    </nav>

  </header>

  <div class="container">

    <h2>Image Gallery</h2>

    <div class="gallery-grid">

      <img src="images/img1.png" alt="Photo 1">

      <img src="images/img2.png" alt="Photo 2">

      <img src="images/img3.png" alt="Photo 3">

      <img src="images/img4.png" alt="Photo 4">

      <img src="images/img5.png" alt="Photo 5">

    </div>

  </div>

  <footer>

    <p>&copy; 2025 Muhammad Nauman Hashir. All rights reserved.</p>

  </footer>

</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 | Muhammad Nauman Hashir</title>

  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">

  <style>

    :root {

      --primary-color: #00ffe0;

      --text-color: #fff;

      --background-start: #adbab9;

      --background-end: #4daddd;

      --shadow-color: rgba(0, 0, 0, 0.15);

    }

    body {

      margin: 0;

      font-family: 'Poppins', sans-serif;

      background: linear-gradient(135deg, var(--background-start), var(--background-end));

      color: var(--text-color);

      text-shadow: 0 1px 2px var(--shadow-color);

    }

    header {

      background: rgba(0, 0, 0, 0.6);

      backdrop-filter: blur(4px);

      padding: 30px 0;

      text-align: center;

    }

    header h1 {

      font-size: 2.5em;

      margin: 0;

      letter-spacing: 1px;

    }

    nav {

      margin-top: 10px;

      display: flex;

      justify-content: center;

      gap: 15px;

    }

    nav a {

      color: var(--text-color);

      text-decoration: none;

      font-weight: 600;

      position: relative;

      transition: color 0.3s;

    }

    nav a.active {

      color: var(--primary-color);

      pointer-events: none;

    }

    nav a::after {

      content: '';

      position: absolute;

      width: 0;

      height: 2px;

      left: 0;

      bottom: -4px;

      background: var(--primary-color);

      transition: width 0.3s;

    }

    nav a:hover {

      color: var(--primary-color);

    }

    nav a:hover::after {

      width: 100%;

    }

    .container {

      max-width: 900px;

      margin: 60px auto;

      background: rgba(255, 255, 255, 0.2);

      backdrop-filter: blur(6px);

      padding: 60px;

      border-radius: 15px;

      box-shadow: 0 4px 10px var(--shadow-color);

      text-align: center;

      animation: fadeIn 1s ease-in;

    }

    .container h2 {

      font-size: 2em;

      margin-top: 0;

    }

    .contact-info p {

      font-size: 1.1em;

      margin: 15px 0;

    }

    .contact-info a {

      color: var(--primary-color);

      text-decoration: none;

    }

    .contact-info a:hover {

      text-decoration: underline;

    }

    footer {

      text-align: center;

      padding: 20px;

      background: rgba(0, 0, 0, 0.6);

      backdrop-filter: blur(4px);

      margin-top: 40px;

    }

    @keyframes fadeIn {

      from { opacity: 0; }

      to { opacity: 1; }

    }

    @media (max-width: 600px) {

      header h1 { font-size: 1.8em; }

      nav { flex-direction: column; gap: 10px; }

      nav a { margin: 5px 0; font-size: 0.9em; }

      .container { margin: 20px; padding: 20px; }

    }

  </style>

</head>

<body>

  <header role="banner">

    <h1>Muhammad Nauman Hashir</h1>

    <nav role="navigation">

      <a href="home.html">Home</a>

      <a href="hobbies.html">Hobbies</a>

      <a href="skills.html">Skills</a>

      <a href="gallery.html">Gallery</a>

      <a href="contact.html" class="active">Contact</a>

    </nav>

  </header>

  <div class="container">

    <h2>Contact Me</h2>

    <div class="contact-info">

      <p>Email: <a href="mailto:hashernauman@gmail.com">hashernauman@gmail.com</a></p>

      <p>Phone: +92 3155159365</p>

      <p>LinkedIn: <a href="https://www.linkedin.com/in/muhammad-nauman-hashir-876a73348/" target="\_blank">linkedin.com/in/muhammad-nauman-hashir-876a73348/</a></p>

    </div>

  </div>

  <footer>

    <p>&copy; 2025 Muhammad Nauman Hashir. All rights reserved.</p>

  </footer>

</body>

</html>