**The University of Azad Jammu and Kashmir, Muzaffarabad**



**Lab Manual**

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| **Submitted to:** | **Engr. Muhammad Awais** |
| **Course Title:** | **Web Design and Development (WDD)** |
| **Course Code:** | **SE-3105** |
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| **Submitted from:** | **Khurram Farman** |

**Bachelors of Science in Software Engineering (2022-26)**

**Department of Software Engineering**

**Web Design and Development (WDD) Lab**

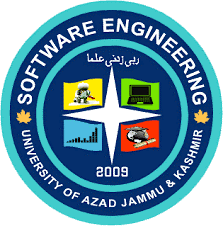
**(SE-3105)**

**Lab Manual**

**Software Engineering**

**(III Year – SEM VI)**

**(2022-26)**

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**Department of**

**Software Engineering**

**The University of Azad Jammu and Kashmir, Muzaffarabad**

**Department of Software Engineering**

**Vision:**

* To acknowledge quality education and instill high patterns of discipline making the students technologically superior and ethically strong which involves the improvement in the quality of life in human race.

**Mission:**

* To achieve and impart holistic technical education using the best of infrastructure, outstanding technical and teaching expertise to establish the students into competent and confident engineers.
* Evolving the center of excellence through creative and innovative teaching learning practices for promoting academic achievement to produce internationally accepted competitive and world class professionals.

**Program Learning Outcomes (PLOs)**

**General Lab Instructions**

Contents

[Lab Task 1 7](#_Toc196685454)

[1. Objectives 7](#_Toc196685455)

[2. Topics Covered 7](#_Toc196685456)

[3. Problem Statement 7](#_Toc196685457)

[4. Complete Code 7](#_Toc196685458)

[5. Output 12](#_Toc196685459)

[Lab Task 2 13](#_Toc196685460)

[1. Objectives 13](#_Toc196685461)

[2. Topics Covered 13](#_Toc196685462)

[3. Problem Statement 13](#_Toc196685463)

[4. Complete Code 13](#_Toc196685464)

[5. Output 13](#_Toc196685465)

Figures

[Figure 1: Output Lab 1 - CV 13](#_Toc196686687)

[Figure 2: Lab Task 2 - Power Pixel 22](#_Toc196686688)

# Lab Task 1

## Objectives

* Understand the basics of the web, its working, and history.
* Learn about key web development technologies.
* Explore HTML structure, tags, and layout creation.
* Understand different ways to style web pages (inline, internal, external CSS).
* Create and style tables using HTML.

## Topics Covered

* Introduction to HTML5 and basic web page structure
* Using common HTML tags (headings, paragraphs, images, links)
* Designing page layouts with tables
* Applying table attributes (rows pan, cols pan, borders)
* Styling web pages using internal CSS

## Problem Statement

Create a resume-style webpage using HTML and CSS.  
Use Single tables to structure different sections like profile, education, skills, and experience.  
Apply internal CSS to style the table layout and enhance the visual appearance.

## Complete Code

1. <!-- This file contains Lab Task 1 for WDD Course  -->
2. <!DOCTYPE html>
3. <html lang="en">
4. <head>
5. <title>Lab Task 1 - Tables</title>
6. <style>
7. body {
8. margin: 0;
9. padding: 0;
10. font-family: sans-serif;
11. }
12. table {
13. width: 780px;
14. margin: 20px auto;
15. background-color: #ededed;
16. border-bottom: 0px solid #c2cfd9;
17. border-collapse: collapse;
18. font-family: sans-serif;
19. padding: 5px;
20. font-size: 10px;
21. }
22. thead {
23. width: 100%;
24. border-bottom: #dfba8c 2px solid;
25. }
26. thead th {
27. font-weight: 500;
28. }
29. #contact a {
30. float: inline-end;
31. }
32. .title {
33. vertical-align: middle;
34. text-align: center;
35. color: #dfba8c;
36. font-size: medium;
37. font-weight: 600
38. }
39. .section\_border {
40. border-bottom: 2px solid rgb(216, 215, 215);
41. }
42. div p,
43. div h3 {
44. margin: 0px;
45. }
46. div {
47. padding: 10px 0px;
48. }
49. </style>
50. </head>
51. <body>
52. <Table>
53. <thead>
54. <tr>
55. <th style="width: 10%;" rowspan="2">
56. <img style="mix-blend-mode: multiply;" src="./profile.jpg" alt="User Svg" width="55" height="55" />
57. </th>
58. <th style="width: 20%; text-align: left; vertical-align: bottom; padding: 0; font-size: 14px;"
59. colspan="2">
60. KHURRAM FARMAN
61. </th>
62. <th id="contact" rowspan="2">
63. <a href="https://github.com/KhurramFarman/2022\_SE\_01\_WDD\_Lab\_Tasks"
64. target="\_blank">https://github.com/KhurramFarman/2022\_SE\_01\_WDD\_Lab\_Tasks</a><br>
65. <a href="mailto:muhammadawaisrathore@gmail.com">sardarkhurram121@gmail.com</a><br>
66. <a href="tel:+923055116110">+92-0000000000</a>
67. </th>
68. </tr>
69. <tr>
70. <th
71. style="text-align: left; padding: 0; padding-left : 8px; vertical-align: baseline; font-size: 14px;">
72. <i>Software
73. Engineer</i>
74. </th>
75. </tr>
76. </thead>
77. <tbody>
78. <tr class="section\_border">
79. <td class="title" colspan="2"><i>Personal Profile</i></td>
80. <td colspan="3">
81. <p>
82. Lorem ipsum dolor, sit amet consectetur adipisicing elit. Est minima ut perspiciatis
83. voluptatibus
84. dolor
85. perferendis nemo commodi consequatur quaerat odit nulla numquam incidunt id, quas sint? Porro
86. incidunt
87. animi doloribus exercitationem iure, sunt eaque atque repudiandae voluptate obcaecati et quasi a
88. numquam
89. illum neque, totam aliquid nulla reiciendis necessitatibus commodi. Ipsum harum fugit natus
90. maxime
91. id
92. </p>
93. </td>
94. </tr>
95. <tr class="section\_border">
96. <td class="title" colspan="2"><i>Work Experience</i></td>
97. <td colspan="3">
98. <div>
99. <h3>Job Title at Company</h3>
100. <p><i>April 2011-present</i></p>
101. <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempore ex asperiores dignissimos
102. eius totam quod voluptatibus ducimus hic, natus a ipsum illum molestiae laboriosam
103. aspernatur vero facilis sapiente harum in eum, quidem quas maxime esse. Sunt fugiat harum
104. nemo cumque, porro ducimus magni veniam veritatis tempora, esse natus illum deleniti alias
105. nihil dolore dignissimos culpa. Odit earum</p>
106. </div>
107. <div>
108. <h3>Job Title at Company</h3>
109. <p><i>April 2011-present</i></p>
110. <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempore ex asperiores dignissimos
111. eius totam quod voluptatibus ducimus hic, natus a ipsum illum molestiae laboriosam
112. aspernatur vero facilis sapiente harum in eum, quidem quas maxime esse. Sunt fugiat harum
113. nemo cumque, porro ducimus magni veniam veritatis tempora, esse natus illum deleniti alias
114. nihil dolore dignissimos culpa. Odit earum</p>
115. </div>
116. <div>
117. <h3>Job Title at Company</h3>
118. <p><i>April 2011-present</i></p>
119. <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempore ex asperiores dignissimos
120. eius totam quod voluptatibus ducimus hic, natus a ipsum illum molestiae laboriosam
121. aspernatur vero facilis sapiente harum in eum, quidem quas maxime esse. Sunt fugiat harum
122. nemo cumque, porro ducimus magni veniam veritatis tempora, esse natus illum deleniti alias
123. nihil dolore dignissimos culpa. Odit earum</p>
124. </div>
125. </td>
126. </tr>
127. <tr class="section\_border">
128. <td class="title" colspan="2"><i>Key Skills</i></td>
129. <td colspan="3">
130. <ul class="">
131. <li>Key Skill 1</li>
132. <li>Key Skill 2</li>
133. <li>Key Skill 3</li>
134. </ul>
135. </td>
136. </tr>
137. <tr>
138. <td class="title" colspan="2"><i>Education</i></td>
139. <td colspan="3">
140. <div>
141. <h3>College/University</h3>
142. <p><i>Qualification</i></p>
143. <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempore ex asperiores dignissimos
144. eius totam quod voluptatibus ducimus hic, natus a ipsum illum molestiae laboriosam
145. aspernatur vero facilis sapiente harum in eum, quidem quas maxime esse. Sunt fugiat harum
146. nemo cumque, porro ducimus magni veniam veritatis tempora, esse natus illum deleniti alias
147. nihil dolore dignissimos culpa. Odit earum</p>
148. </div>
149. <div style="padding-bottom: 0;">
150. <h3>College/University</h3>
151. <p><i>Qualification</i></p>
152. <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempore ex asperiores dignissimos
153. eius totam quod voluptatibus ducimus hic, natus a ipsum illum molestiae laboriosam
154. aspernatur vero facilis sapiente harum in eum, quidem quas maxime esse. Sunt fugiat harum
155. nemo cumque, porro ducimus magni veniam veritatis tempora, esse natus illum deleniti alias
156. nihil dolore dignissimos culpa. Odit earum</p>
157. <p style="text-align: center; margin: 10px 0px 0px;">&copy;All Rights Reserved 2025 WDD</p>
158. </div>
159. </td>
160. </tr>
161. </tbody>
162. </Table>
163. </body>
164. </html>

## 5. Output

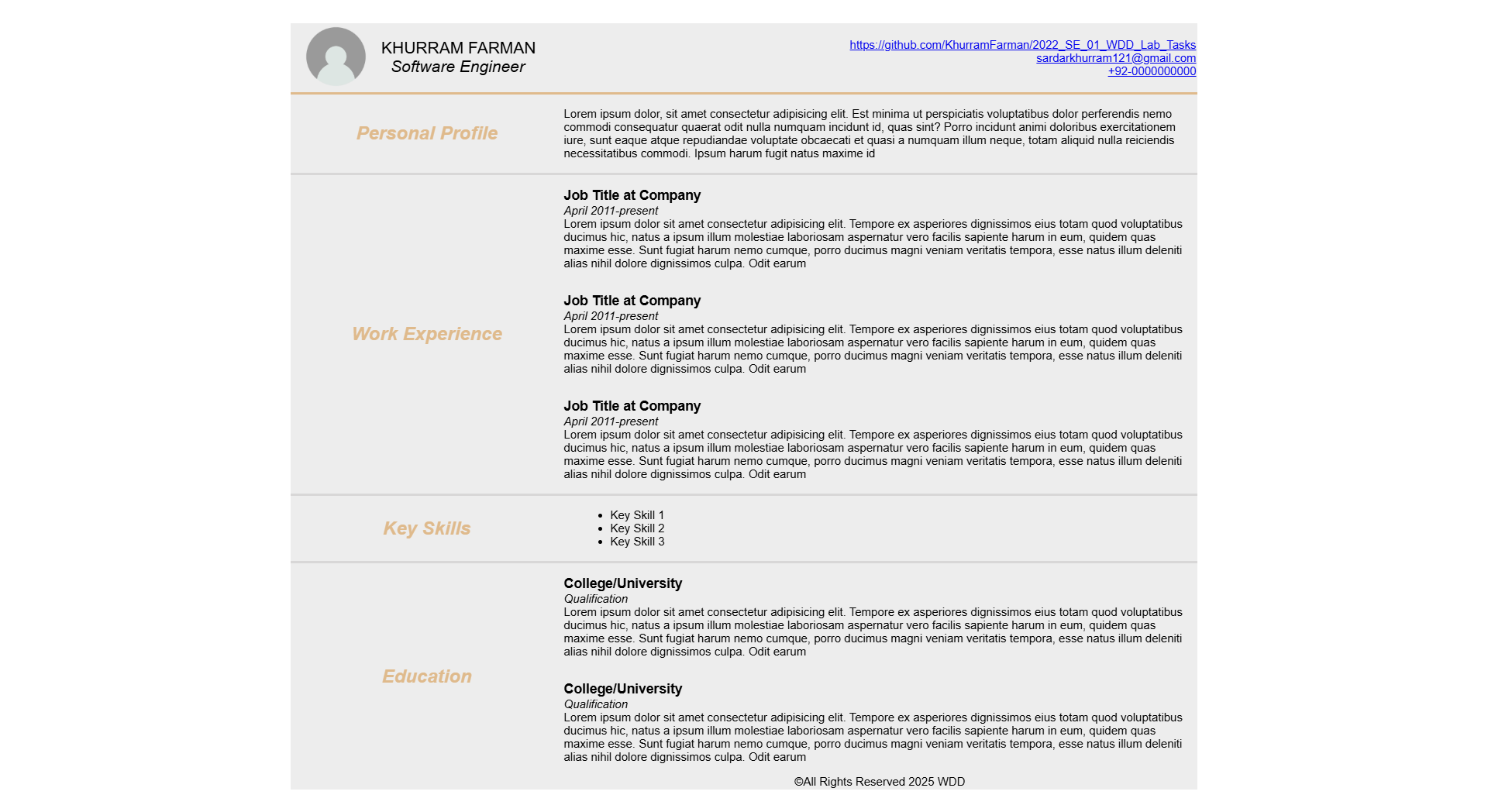


Figure 1: Output Lab 1 - CV

# Lab Task 2

## Objectives

* Understand and implement HTML form elements and their attributes.
* Understand how the CSS Selectors (id, class) work.
* Create web page layouts using float-based positioning.
* Apply internal CSS for styling navigation, sections, and buttons.
* Practice organizing content like navigation bars, main sections, and images effectively

## Topics Covered

* HTML Form Elements
* CSS Selectors: ID (#id) and Class (.class) usage
* Layout creation using CSS Float property

## Problem Statement

Create a multi-section web page that includes a navigation bar, a main content area with text and images, and a contact form.  
Use internal CSS for styling and apply float-based layout techniques to arrange the sections side by side.  
Ensure the form uses appropriate HTML form elements and that all sections are styled properly using IDs and classes.

## Complete Code

1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4. <meta charset="UTF-8">
5. <meta name="viewport" content="width=device-width, initial-scale=1.0">
6. <title>Lab Task - 2</title>
7. <link href='https://fonts.googleapis.com/css?family=Roboto' rel='stylesheet'>
8. <style>
9. body {
10. margin: 0;
11. padding: 0;
12. font-family: 'Roboto', 'sans-serif';
13. }
14. button {
15. cursor: pointer;
16. }
17. .nav {
18. width: 80%;
19. margin: 0 auto;
20. height: 10vh;
21. padding-top: 20px;
22. }
23. .nav div {
24. float: left;
25. }
26. .logo {
27. width: 25%;
28. text-align: left;
29. margin-top: 5px;
30. }
31. .logo img {
32. margin-left: 35px;
33. }
34. .nav\_buttons {
35. width: 50%;
36. box-sizing: border-box;
37. border: 1px solid black;
38. padding: 10px 15px;
39. /\* padding-left: 40px; \*/
40. border-radius: 20px;
41. text-align: center;
42. }
43. .nav\_buttons ul {
44. margin: 0;
45. padding: 0;
46. }
47. .nav\_buttons ul li {
48. list-style: none;
49. float: left;
50. margin: 0 10px;
51. font-size: 14px;
52. font-weight: bold;
53. }
54. .nav\_buttons ul li a {
55. text-decoration: none;
56. color: black;
57. }
58. .nav\_buttons ul li:nth-child(1) a {
59. background-color: #ff8a39;
60. color: white !important;
61. padding: 5px 10px;
62. border-radius: 10px;
63. }
64. .contact\_button {
65. width: 25%;
66. text-align: right;
67. margin-top: 5px;
68. padding-right: 35px;
69. box-sizing: border-box;
70. }
71. .contact\_button button {
72. background-color: black;
73. color: white;
74. padding: 8px 20px;
75. border: none;
76. outline: none;
77. border-radius: 20px;
78. }
79. .main {
80. background-color: #f5f5dc;
81. }
82. .container {
83. width: 80%;
84. margin: 0 auto;
85. padding-top: 80px;
86. overflow: hidden;
87. /\* important to clear floats \*/
88. }
89. .content {
90. width: 55%;
91. float: left;
92. margin-top: 30px;
93. }
94. .h1 {
95. font-size: 48px;
96. font-weight: 700;
97. margin-bottom: 20px;
98. margin-right: 150px;
99. line-height: 1.2;
100. }
101. .content p {
102. font-size: 16px;
103. color: #333;
104. margin-bottom: 30px;
105. margin-right: 150px;
106. }
107. .content button {
108. background-color: #ff8a39;
109. color: white;
110. border: none;
111. padding: 10px 20px;
112. border-radius: 20px;
113. font-weight: bold;
114. cursor: pointer;
115. }
116. .image {
117. width: 40%;
118. float: right;
119. }
120. .image img {
121. width: 100%;
122. border-radius: 15px;
123. }
124. .section2 {
125. background-color: black;
126. color: white;
127. text-align: center;
128. margin-top: 80px;
129. padding: 50px 150px;
130. font-size: 40px;
131. }
132. .location {
133. width: 50%;
134. float: left;
135. height: 550px;
136. }
137. .contact {
138. width: 50%;
139. float: right;
140. height: 550px;
141. background-color: #f5f5dc;
142. }
143. .contact h2 {
144. margin-top: 50px;
145. margin-left: 40px;
146. }
147. .contact p {
148. margin-right: 120px;
149. margin-left: 40px;
150. }
151. .contact .feild {
152. margin: 25px;
153. margin-left: 40px;
154. }
155. .feild input {
156. padding: 5px 10px;
157. width: 450px;
158. margin-top: 5px;
159. }
160. .feild label {
161. /\* font-size: 20px; \*/
162. font-weight: bold;
163. }
164. .feild button {
165. background-color: #ff8a39;
166. color: white;
167. border: none;
168. padding: 10px 20px;
169. border-radius: 10px;
170. font-weight: bold;
171. cursor: pointer;
172. }
174. footer {
175. background-color: black;
176. color: white;
177. text-align: center;
178. padding: 5px 0;
179. clear: both;
180. font-size: small;
181. }
182. </style>
183. </head>
184. <body>
185. <header class="nav">
186. <!-- Logo -->
187. <div class="logo">
188. <img src="logo.png" height="20" alt="Powre Pixel Logo">
189. </div>
190. <!--Navigation Buttons  -->
191. <div class="nav\_buttons">
192. <ul>
193. <li><a href="#">Home</a></li>
194. <li><a href="#">Lectures</a></li>
195. <li><a href="#">Labs</a></li>
196. <li><a href="#">Student Work</a></li>
197. <li><a href="#">Resources</a></li>
198. <li><a href="#">Blogs</a></li>
199. </ul>
200. </div>
201. <!-- Contact Button -->
202. <div class="contact\_button">
203. <button>Contact</button>
204. </div>
205. </header>
206. <div class="main">
207. <section class="container">
208. <div class="content">
209. <h1 class="h1">
210. Welcome to Our Class Web Portal
211. </h1>
212. <p class="">
213. This site is the part of our practical learning journey in the web devlopment. Here, students learn
214. Html, CSS (including floats), forms, and responsive design by building and contributing to this
215. paltform.
216. </p>
217. <button>Start Exploring</button>
218. </div>
219. <div class="image">
220. <img width="100%" src="hero-image.jpg" alt="3 persons are discussing on project">
221. </div>
222. </section>
223. <section class="section2">
224. <p>This is not just a website - it is a learning journey. Here student document what they lean and build.
225. </p>
226. </section>
227. <section class="section3">
228. <div class="location">
229. <iframe
230. src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d6585.242474864141!2d73.46691552715919!3d34.38555248715161!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x38e09e2ad889f093%3A0xa4bad6a4e55519c7!2sDepartment%20of%20Software%20Engineering%20Uajk!5e0!3m2!1sen!2s!4v1745741418048!5m2!1sen!2s"
231. width="100%" height="100%" style="border:0;" allowfullscreen="" loading="lazy"
232. referrerpolicy="no-referrer-when-downgrade"></iframe>
233. </div>
234. <div class="contact">
235. <h2>Get in Touch with the Instructor</h2>
236. <p>Have question about lectures, labs, or assignmentS? Use the foem below to contact your instructor or
237. TA. We are here to support your learning journey</p>
238. <form action="function.php">
239. <div class="feild">
240. <label for="name">Name:</label>
241. <br>
242. <input type="text" id="name" name="name" required>
243. </div>
244. <div class="feild">
245. <label for="email">Email:</label>
246. <br>
247. <input type="email" id="email" name="email" required>
248. </div>
249. <div class="feild">
250. <label for="tel">Tel:</label>
251. <br>
252. <input type="text" name="tel" id="tel" required>
253. </div>
254. <div class="feild">
255. <label for="message">Message:</label>
256. <br>
257. <input type="text" id="message" name="message" required>
258. </div>
259. <div class="feild">
260. <button class="submit\_button" type="submit">Submit</button>
261. </div>
262. </form>
263. </div>
264. </section>
265. </div>
266. <footer>
267. <p>All rights reserved &copy;2025 </p>
268. </footer>
269. </body>
270. </html>

## 5. Output

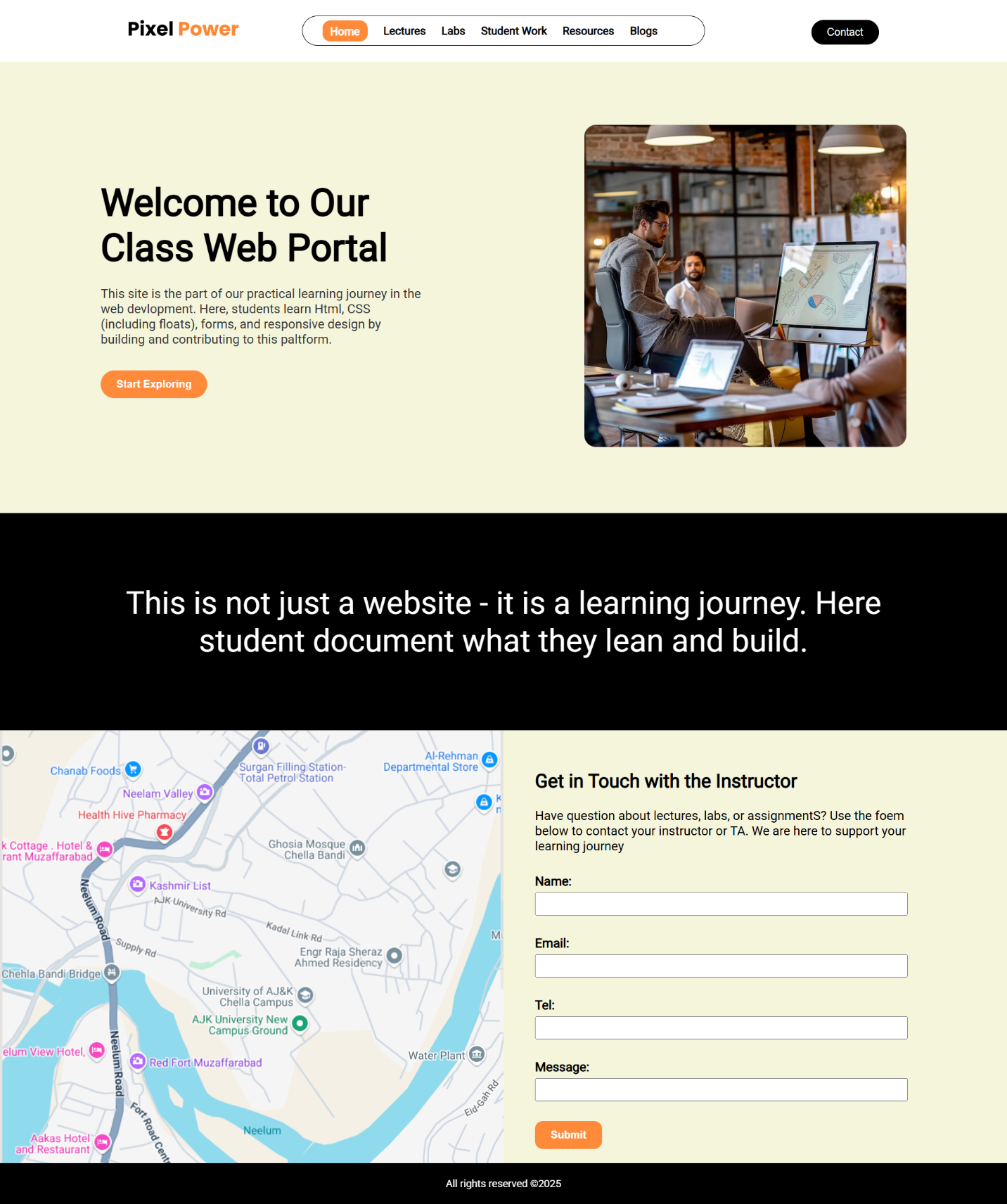


Figure 2: Lab Task 2 - Power Pixel