

ASSIGNMENT-005

1.) Smart Contract Development and Unit Testing using Truffle Framework

Objective

Implement a simple Solidity Smart Contract and perform UNIT Testing using Truffle to verify contract functionality.

Problem Statement (Equivalent to Given Cipher Practical)

Develop a basic Personal Portfolio Smart Contract that stores and retrieves user profile data, and validate its behavior using Truffle unit tests.

Requirements

Development Environment

- Install Node.js
- Install Truffle Framework
- Install Ganache (Local Blockchain)
- Use VS Code with:
 - Solidity Extension
 - JavaScript Extension

CODE:

```

# styles.css > footer
1  /* Reset */
2  * {
3      margin: 0;
4      padding: 0;
5      box-sizing: border-box;
6      font-family: 'Segoe UI', sans-serif;
7  }
8
9  /* Body */
10 body {
11     background: linear-gradient(to right, #1e3c72, #2a5298);
12     color: #333;
13 }
14
15 /* HOME SECTION */
16 header {
17     height: 100vh;
18     display: flex;
19     justify-content: center;
20     align-items: center;
21     text-align: center;
22     color: white;
23 }
24
25 header h1 {
26     font-size: 40px;
27     margin-bottom: 30px;
28 }
29
30 /* Navigation Buttons */
31 .hey {
32     padding: 12px 25px;
33     margin: 10px;
34     border: none;
35     border-radius: 25px;
36     background-color: white;
37     color: #2a5298;
38     font-size: 16px;
39     font-weight: bold;
40     cursor: pointer;
41     transition: 0.3s ease;
42 }
43
44 .hey:hover {
45     background-color: #ff9800;
46     color: white;
47     transform: scale(1.05);
48 }
49
50 /* Sections */
51 section {
52     display: none;
53     min-height: 100vh;
54     padding: 60px 20px;
55     background-color: #f4f6f9;
56     text-align: center;
57 }
58
59 <!-- PROJECTS SECTION -->
60 <section id="Projects">
61     <h1>Projects</h1>
62     <table>
63         <tr>
64             <th>Name</th>
65             <th>Category</th>
66             <th>Status</th>
67         </tr>
68         <tr>
69             <td>Project A</td>
70             <td>Software Development</td>
71             <td>In Progress</td>
72         </tr>
73         <tr>
74             <td>Project B</td>
75             <td>Hardware Engineering</td>
76             <td>Completed</td>
77         </tr>
78     </table>
79 </section>
80
81 <!-- ABOUT SECTION -->
82 <section id="About">
83     <h2>About Us</h2>
84     <p>We are a team of experienced professionals dedicated to providing high-quality software solutions. Our mission is to deliver innovative and efficient software products that meet the unique needs of our clients. We believe in a collaborative approach and value strong communication and teamwork. Our goal is to build long-term relationships with our clients and help them achieve their business goals. We are committed to staying at the forefront of technology and continuously improving our skills and knowledge. We are always looking for opportunities to work with new clients and explore new projects. Thank you for considering us for your software needs. We look forward to hearing from you soon!</p>
85 </section>
86
87 <!-- CONTACT SECTION -->
88 <section id="Contact">
89     <h2>Contact Us</h2>
90     <form>
91         <input type="text" placeholder="Name" required>
92         <input type="email" placeholder="Email" required>
93         <input type="text" placeholder="Subject" required>
94         <input type="text" placeholder="Message" required>
95         <input type="submit" value="Send Message" style="background-color: #2a5298; color: white; border: none; border-radius: 5px; padding: 10px; width: 100%; height: 40px; font-size: 16px; font-weight: bold; cursor: pointer;">
96     </form>
97 </section>

```

OUTPUT:

WELCOME TO MY PORTFOLIO

Contact Me

Name:

Enter your name

Email:

Enter your email

Gender:

Male

Female

Languages:

C

Java

Bio (max 200 words):

Submit

Back