



**Web-based Interface Design
(CSF3133)**

LAB REPORT

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LAB 6 EXERCISE

Code

1. Index.html

```
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>Sejarah Malaysia Quiz</title>
7   <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10  <header>
11    <h1>Sejarah Malaysia Quiz</h1>
12  </header>
13  <main>
14    <section id="quiz-container">
15      <div id="timer">Masa: <span id="time">30</span>s</div>
16      <div id="question-container">
17        <p id="question"></p>
18        <ul id="answers"></ul>
19      </div>
20      <div id="feedback"></div>
21      <button id="prev-btn" disabled>Soalan Sebelumnya</button>
22      <button id="next-btn" disabled>Soalan Seterusnya</button>
23    </section>
24  </main>
25  <footer>
26    <p>&copy; 2024 Sejarah Malaysia Quiz. All rights reserved.</p>
27  </footer>
28  <script src="script.js"></script>
29 </body>
30 </html>
```

2. styles.css

```
1 body {
2   font-family: Arial, sans-serif;
3   text-align: center;
4   background-color: #f9f9f9;
5   color: #333;
6 }
7
8 header {
9   background-color: #007bff;
10  color: white;
11  padding: 20px;
12  margin-bottom: 20px;
13 }
14
15 #quiz-container {
16   max-width: 600px;
17   margin: 0 auto;
18   padding: 20px;
19   border: 1px solid #ddd;
20   background: #fff;
21   border-radius: 10px;
22 }
23
24 #timer {
25   font-size: 18px;
26   margin-bottom: 10px;
27   font-weight: bold;
28 }
29
30 #question {
31   font-size: 20px;
32   margin-bottom: 10px;
33 }
```

```

35 #answers {
36 |   list-style: none;
37 |   padding: 0;
38 | }
39
40 #answers li {
41 |   margin: 10px 0;
42 |   padding: 10px;
43 |   border: 2px solid #007bff;
44 |   border-radius: 5px;
45 |   cursor: pointer;
46 |   background-color: #f9f9f9;
47 |   transition: background-color 0.3s, transform 0.2s;
48 | }
49
50 #answers li:hover {
51 |   background-color: #007bff;
52 |   color: white;
53 |   transform: scale(1.05);
54 | }
55
56 #answers li:active {
57 |   transform: scale(0.95);
58 | }
59
60 #feedback {
61 |   margin: 10px 0;
62 |   font-weight: bold;
63 | }

```

```

65 #next-btn, #prev-btn {
66 |   padding: 10px 20px;
67 |   margin: 10px 5px;
68 |   background-color: #1475dc;
69 |   color: white;
70 |   border: none;
71 |   border-radius: 5px;
72 |   cursor: pointer;
73 | }
74
75 #next-btn:disabled, #prev-btn:disabled {
76 |   background-color: #ccc;
77 |   cursor: not-allowed;
78 | }
79
80 footer {
81 |   margin-top: 20px;
82 | }
83
84 body {
85 |   font-family: Arial, sans-serif;
86 |   text-align: center;
87 |   background-image: url('sejarah.png');
88 |   background-size: cover;
89 |   background-repeat: no-repeat;
90 |   background-position: center;
91 |   color: #000000;
92 | }

```

```

94   header {
95       background-color: rgba(0, 123, 255, 0.8);
96       color: white;
97       padding: 20px;
98       margin-bottom: 20px;
99       border-radius: 5px;
100  }
101
102  #quiz-container {
103      max-width: 600px;
104      margin: 20px auto;
105      padding: 20px;
106      border: 1px solid #ddd;
107      background: rgba(255, 255, 255, 0.9);
108      border-radius: 10px;
109      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
110  }
111
112  footer {
113      text-align: center;
114      padding: 10px 0;
115      background-color: rgba(0, 123, 255, 0.8);
116      color: white;
117      position: fixed;
118      bottom: 0;
119      width: 100%;
120      font-size: 14px;
121      box-shadow: 0 -2px 5px rgba(0, 0, 0, 0.1);
122  }

```

```

1  const questions = [
2      {
3          question: "Siapakah Baba Kemerdekaan Malaysia?",
4          options: ["Tun Abdul Razak", "Tunku Abdul Rahman", "Tun Hussein Onn", "Tun Dr. Mahathir"],
5          correct: "Tunku Abdul Rahman"
6      },
7      {
8          question: "Bilakah Malaysia mencapai kemerdekaan?",
9          options: ["31 Ogos 1957", "16 September 1963", "31 Ogos 1963", "31 Disember 1957"],
10         correct: "31 Ogos 1957"
11     },
12     {
13         question: "Apakah nama perjanjian yang membawa kepada penubuhan Malaysia?",
14         options: ["Perjanjian Bangkok", "Perjanjian Malaysia", "Perjanjian Persekutuan", "Perjanjian Manila"],
15         correct: "Perjanjian Malaysia"
16     },
17     {
18         question: "Siapakah yang digelar sebagai Baba Malaysia?",
19         options: ["Tun Abdul Razak", "Tunku Abdul Rahman", "Tun Dr. Ismail", "Tun Mahathir"],
20         correct: "Tunku Abdul Rahman"
21     }
22 ];
23
24 let currentQuestionIndex = 0;
25 let score = 0;
26 let timer;
27 let timeLeft = 30;
28 let answeredQuestions = [];
29
30 function shuffleQuestions() {
31     questions.sort(() => Math.random() - 0.5);
32 }

```

```

33
34 function startTimer() {
35     timeLeft = 30;
36     document.getElementById("time").textContent = timeLeft;
37     clearInterval(timer);
38     timer = setInterval(() => {
39         timeLeft--;
40         document.getElementById("time").textContent = timeLeft;
41         if (timeLeft <= 0) {
42             clearInterval(timer);
43             showFeedback(false);
44             setTimeout(nextQuestion, 1000);
45         }
46     }, 1000);
47 }
48
49 function displayQuestion() {
50     const questionData = questions[currentQuestionIndex];
51     document.getElementById("question").textContent = questionData.question;
52
53     const answersList = document.getElementById("answers");
54     answersList.innerHTML = "";
55
56     questionData.options.forEach(option => {
57         const li = document.createElement("li");
58         li.textContent = option;
59         li.onclick = () => {
60             if (!answeredQuestions[currentQuestionIndex]) {
61                 checkAnswer(option);
62                 answeredQuestions[currentQuestionIndex] = true;
63             }
64         };
65         answersList.appendChild(li);
66     });

```

```

68     document.getElementById("feedback").textContent = "";
69     document.getElementById("next-btn").disabled = !answeredQuestions[currentQuestionIndex];
70     document.getElementById("prev-btn").disabled = currentQuestionIndex === 0;
71
72     startTimer();
73 }
74
75 function checkAnswer(selected) {
76     const questionData = questions[currentQuestionIndex];
77     const isCorrect = selected === questionData.correct;
78
79     if (isCorrect) score++;
80
81     showFeedback(isCorrect);
82
83     clearInterval(timer);
84
85     document.getElementById("next-btn").disabled = false;
86 }
87
88 function showFeedback(isCorrect) {
89     const feedback = document.getElementById("feedback");
90     feedback.textContent = isCorrect ? "Jawapan Betul!" : "Jawapan Salah!";
91     feedback.style.color = isCorrect ? "green" : "red";
92 }
93
94 function nextQuestion() {
95     if (currentQuestionIndex < questions.length - 1) {
96         currentQuestionIndex++;
97         displayQuestion();
98     } else {
99         endQuiz();
100     }
101 }

```

```

103  function prevQuestion() {
104      if (currentQuestionIndex > 0) {
105          currentQuestionIndex--;
106          displayQuestion();
107      }
108  }
109
110  function startQuiz() {
111      shuffleQuestions();
112      currentQuestionIndex = 0;
113      score = 0;
114      answeredQuestions = [];
115      document.getElementById("quiz-container").innerHTML = `
116          <div id="timer">Masa: <span id="time">30</span>s</div>
117          <div id="question-container">
118              <p id="question"></p>
119              <ul id="answers"></ul>
120          </div>
121          <div id="feedback"></div>
122          <button id="prev-btn" onclick="prevQuestion()" disabled>Soalan Sebelumnya</button>
123          <button id="next-btn" onclick="nextQuestion()" disabled>Soalan Seterusnya</button>
124      `;
125      displayQuestion();
126  }
127
128  function endQuiz() {
129      document.getElementById("quiz-container").innerHTML = `
130          <h2>Kuiz Tamat!</h2>
131          <p>Markah Anda: ${score} / ${questions.length}</p>
132          <button onclick="startQuiz()">Mulakan Semula</button>
133      `;
134  }
135
136  startQuiz();

```

Output

