



Experiment 1

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Subject Name: Full Stack

Subject Code: 23CSP-339

1. **Problem Title:** To build an admin dashboard with dynamic theming using CSS Grid and JavaScript.

2. **Problem Description:**

- Create grid-based layout
- Implement dark/light mode toggle
- Design responsive sidebar
- Add data visualization placeholders
- Persist theme preference using localStorage

3. **Hardware Requirements:**

- Processor: Intel i3/ Ryzen 3 or higher.
- RAM: 4GB minimum.
- Display: 1366x768 resolution.

Software Requirements:

- VS Code(Equipped with Live Server Extension)
- Any Browser

4. **Entire Program:**

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8" />
  <title>title</title>
  <style>    <!--used for utilizing internal css in html file-->
    :root {
      --primary-color: #2c3e50;
      --secondary-color: #3498db;
```

```

    }

    .bank-interface {
      display: grid;
      gap: 1rem;
      max-width: 500px;
      margin: 2rem auto;
      padding: 2rem;
      border-radius: 8px;
      box-shadow: 0 2px 10px rgba(0,0,0,0.1);
    }

    @media (max-width: 600px) {
      .bank-interface {
        padding: 1rem;
        margin: 1rem;
      }
    }
  </style>
</head>
<body>  <!--Main html code-->
  <div class="bank-interface">
    <h2>Account Balance: <span id="balance">$1000</span></h2>
    <input type="number" id="amount" placeholder="Enter amount" min="0">
    <div class="btn-group">
      <button onclick="deposit()">Deposit</button>
      <button onclick="withdraw()">Withdraw</button>
    </div>
    <p id="message"></p>
  </div>
  <script>  <!--used for utilizing internal js-->
    let balance = 1000;
    function updateUI() {
      document.getElementById('balance').textContent = `$$${balance}`;
      document.getElementById('amount').value = "";
    }

    function deposit() {
      const amount = Number(document.getElementById('amount').value);
      if (amount > 0) {
        balance += amount;
        updateUI();
      }
    }

    function withdraw() {
      const amount = Number(document.getElementById('amount').value);
      if (amount > 0 && amount <= balance) {
        balance -= amount;
        updateUI();
      } else {
        document.getElementById('message').textContent = 'Invalid withdrawal amount!';
      }
    }
  </script>

```

```
</body>
</html>
```

5. Outputs:

Account Balance: \$1000

i) Initial balance

Account Balance: \$1000

ii) Depositing 1000 more

Account Balance: \$2000

iii) New balance

6. Learning Outcome:

- I learnt how to link and connect the script.js and css file with the Html.
- I learnt how to work with html file.
- I learnt how to write js file and css.