Experiment 2: Responsive Banking UI

Aim:

To create a responsive banking interface with deposit and withdrawal functionality using HTML5, CSS3, and JavaScript.

Objectives:

- Design a simple and clean banking UI with a balance display.
- Implement interactive Deposit and Withdraw functionalities.
- Use media queries to ensure responsiveness across different screen sizes.
- Add form validation for input fields.
- Handle DOM elements using JavaScript for interactivity.

Software Requirements:

- Visual Studio Code / Sublime Text
- Chrome or Firefox Developer Edition
- Live Server Extension (for auto-refresh)
- Git (for version control)

Code Implementation:

HTML:

```
<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>
```

CSS:

```
:root {
  --primary-color: #2c3e50;
  --secondary-color: #3498db;
}
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
}
.bank-interface {
  display: grid;
  gap: 1rem;
  max-width: 500px;
  margin: 2rem auto;
```

```
  padding: 2rem;
  background: white;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0,0,0,0.1);
}
input {
  padding: 0.5rem;
  font-size: 1rem;
}
.btn-group button {
  padding: 0.6rem 1rem;
  font-size: 1rem;
  margin-right: 0.5rem;
  background-color: var(--secondary-color);
  color: white;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}
.btn-group button:hover {
  background-color: #2980b9;
}
#message {
  color: red;
  font-weight: bold;
}
@media (max-width: 600px) {
  .bank-interface {
    padding: 1rem;
    margin: 1rem;
  }
}
```

JavaScript:

```
let balance = 1000;

function updateUI() {
  document.getElementById('balance').textContent = `$${balance}`;
  document.getElementById('amount').value = '';
  document.getElementById('message').textContent = '';
}

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

```
    document.getElementById('message').textContent = 'Enter a valid amount to deposit!';
  }
}

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!';
  }
}
```

Expected Output: