



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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## Report File FULL STACK

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**Subject Name:** Full Stack

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

### Objectives:

1. Design a banking UI with balance display
2. Implement deposit/withdrawal buttons
3. Make the interface responsive using media queries
4. Add interactive elements with JavaScript
5. Validate form inputs

### Hardware Requirements:

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

### Software Requirements

- VS Code/Sublime Text
- Chrome/Firefox Developer Edition
- Live Server extension
- Git for version control

### About the Experiment

This lab introduces:

- Semantic HTML5 structure
- CSS Flexbox/Grid for layout
- Responsive design principles
- DOM manipulation basics

- Form validation patterns

### **Key Concepts:**

- Media queries for responsiveness
- CSS variables for maintainability
- Event handling in JavaScript

### **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;
}

.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;
  }
}
```

#### **JavaScript:**

```
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!';  
  }  
}
```

### **Expected Output**

1. Clean banking interface with:
  - Current balance display (\$1000 initial)
  - Input field with validation
  - Deposit/Withdraw buttons
  - Responsive layout (collapses on mobile)
2. Functional balance updates
3. Error messages for invalid inputs

**Account Balance: \$2200**

Deposit

Withdraw