

## Experiment 2

### Build a responsive banking UI with deposit/withdrawal buttons and balance display.

#### Code

1. Html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Online Banking</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <div class="banking-container">
    <div class="header">
      <h1>Digital Bank</h1>
    </div>

    <div class="balance">
      <div class="balance-label">Current Balance</div>
      <div id="balance-amount">₹1,000.00</div>
    </div>

    <div class="controls">
      <input type="number" id="amount-input" placeholder="Enter amount">
      <div class="buttons-container">
        <button id="deposit-btn" class="btn">Deposit</button>
        <button id="withdraw-btn" class="btn">Withdraw</button>
      </div>
    </div>

    <div class="transactions">
      <h2>Transaction History</h2>
      <ul id="transaction-list">
      </ul>
    </div>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

## 2. CSS-

```
/* --- Basic Setup --- */
:root {
  --primary-color: #007bff;
  --success-color: #28a745;
  --danger-color: #dc3545;
  --light-gray: #f8f9fa;
  --dark-gray: #343a40;
  --border-radius: 8px;
}

body {
  font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Helvetica, Arial, sans-serif;
  background-color: var(--light-gray);
  margin: 0;
  display: flex;
  justify-content: center;
  align-items: center;
  min-height: 100vh;
}

/* --- Banking App Container --- */
.banking-container {
  width: 100%;
  max-width: 400px;
  background: #ffffff;
  border-radius: var(--border-radius);
  box-shadow: 0 8px 20px rgba(0,0,0,0.1);
  padding: 2rem;
  box-sizing: border-box;
  margin: 1rem;
}

/* --- Header --- */
.header {
  text-align: center;
  margin-bottom: 2rem;
  color: var(--dark-gray);
}

.header h1 {
  margin: 0;
  font-size: 1.8rem;
}

/* --- Balance Display --- */
.balance {
  background-color: var(--primary-color);
  color: white;
```

```
padding: 1.5rem;
border-radius: var(--border-radius);
text-align: center;
margin-bottom: 2rem;
}

.balance-label {
  font-size: 1rem;
  margin-bottom: 0.5rem;
  opacity: 0.8;
}

#balance-amount {
  font-size: 2.5rem;
  font-weight: bold;
  letter-spacing: 1px;
}

/* --- Controls (Input & Buttons) --- */
.controls {
  display: flex;
  flex-direction: column;
  gap: 1rem;
}

#amount-input {
  width: 100%;
  padding: 0.75rem;
  border: 1px solid #ced4da;
  border-radius: var(--border-radius);
  font-size: 1.2rem;
  text-align: center;
  box-sizing: border-box;
}

/* Hide the number input arrows for a cleaner look */
#amount-input::-webkit-outer-spin-button,
#amount-input::-webkit-inner-spin-button {
  -webkit-appearance: none;
  margin: 0;
}
#amount-input[type=number] {
  -moz-appearance: textfield;
}

.buttons-container {
  display: grid;
  grid-template-columns: 1fr 1fr;
  gap: 1rem;
}
```

```
.btn {
  padding: 0.8rem;
  border: none;
  border-radius: var(--border-radius);
  color: white;
  font-size: 1rem;
  font-weight: bold;
  cursor: pointer;
  transition: opacity 0.2s;
}

.btn:hover {
  opacity: 0.9;
}

#deposit-btn {
  background-color: var(--success-color);
}

#withdraw-btn {
  background-color: var(--danger-color);
}

/* --- Transaction History --- */
.transactions {
  margin-top: 2rem;
}

.transactions h2 {
  font-size: 1.2rem;
  color: var(--dark-gray);
  border-bottom: 2px solid #eee;
  padding-bottom: 0.5rem;
  margin-bottom: 1rem;
}

#transaction-list {
  list-style-type: none;
  padding: 0;
  max-height: 150px;
  overflow-y: auto;
}

#transaction-list li {
  display: flex;
  justify-content: space-between;
  padding: 0.75rem;
  border-bottom: 1px solid #eee;
}

#transaction-list li:last-child {
  border-bottom: none;
}
```

```

.deposit {
  color: var(--success-color);
}
.withdrawal {
  color: var(--danger-color);
}

```

### 3. Javascript-

```

document.addEventListener('DOMContentLoaded', () => {
  // --- State ---
  let currentBalance = 1000.00;

  // --- Element References ---
  const balanceAmountEl = document.getElementById('balance-amount');
  const amountInputEl = document.getElementById('amount-input');
  const depositBtn = document.getElementById('deposit-btn');
  const withdrawBtn = document.getElementById('withdraw-btn');
  const transactionListEl = document.getElementById('transaction-list');

  // --- Functions ---

  /**
   * Updates the balance display with proper formatting.
   */
  function updateBalanceDisplay() {
    balanceAmountEl.textContent = `₹${currentBalance.toFixed(2)}`;
  }

  /**
   * Adds a transaction record to the history list.
   * @param {number} amount - The transaction amount.
   * @param {'deposit' | 'withdrawal'} type - The type of transaction.
   */
  function addTransaction(amount, type) {
    const li = document.createElement('li');
    const sign = type === 'deposit' ? '+' : '-';
    li.className = type === 'deposit' ? 'deposit' : 'withdrawal';
    li.innerHTML = `
      <span>${type.charAt(0).toUpperCase() + type.slice(1)}</span>
      <span>${sign}₹${amount.toFixed(2)}</span>
    `;
    transactionListEl.prepend(li); // Add new transactions to the top
  }

  /**
   * Handles the deposit logic.
   */
  function handleDeposit() {

```

```
const amount = parseFloat(amountInputEl.value);

if (isNaN(amount) || amount <= 0) {
  alert('Please enter a valid positive amount.');
```

return;

}

currentBalance += amount;

updateBalanceDisplay();

addTransaction(amount, 'deposit');

amountInputEl.value = ""; // Clear input

}

/\*\*

\* Handles the withdrawal logic.

\*/

function handleWithdrawal() {

const amount = parseFloat(amountInputEl.value);

if (isNaN(amount) || amount <= 0) {

alert('Please enter a valid positive amount.');

return;

}

if (amount > currentBalance) {

alert('Insufficient funds for this withdrawal.');

return;

}

currentBalance -= amount;

updateBalanceDisplay();

addTransaction(amount, 'withdrawal');

amountInputEl.value = ""; // Clear input

}

// --- Event Listeners ---

depositBtn.addEventListener('click', handleDeposit);

withdrawBtn.addEventListener('click', handleWithdrawal);

// --- Initial Render ---

// Set the initial balance on page load

updateBalanceDisplay();

});

## Outputs Experiment 2

### Digital Bank

Current Balance

**₹3345.00**

Deposit

Withdraw

#### Transaction History

---

Deposit

+ ₹2345.00

*Figure 1 Experiment 2. Deposited*

# Digital Bank

Current Balance

₹2422.00

Enter amount

Deposit

Withdraw

## Transaction History

Withdrawal -₹923.00

Deposit +₹2345.00

Figure 2 Experiment 2 (withdrawal)