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">
            </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;
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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

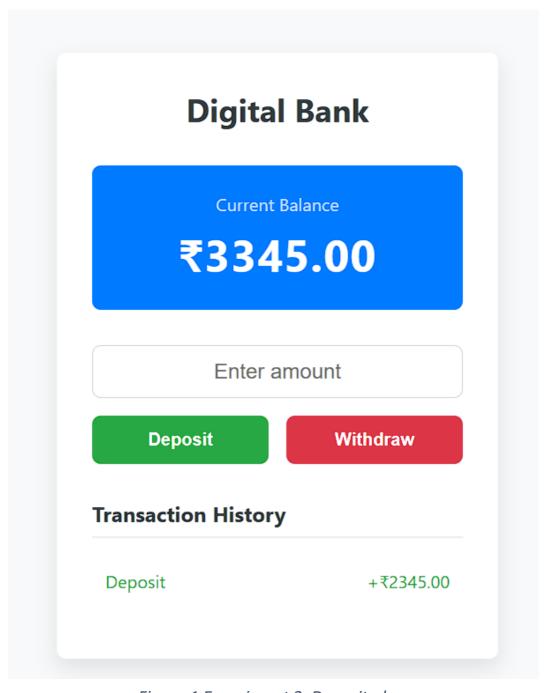


Figure 1 Experiment 2. Deposited

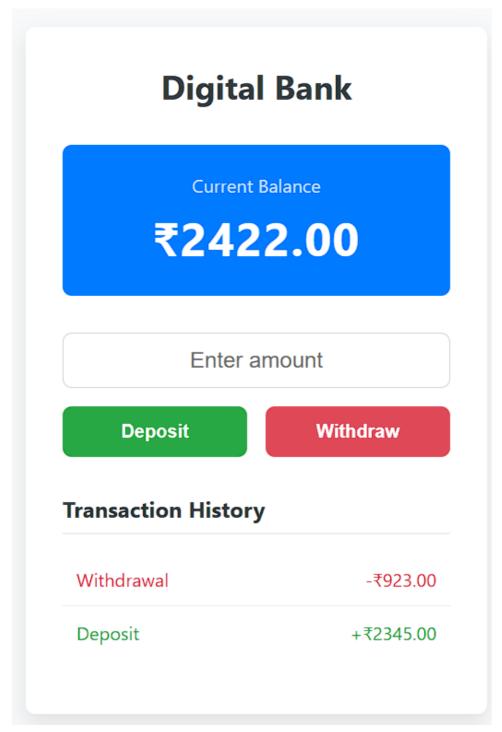


Figure 2 Experiment 2 (withdrawal)