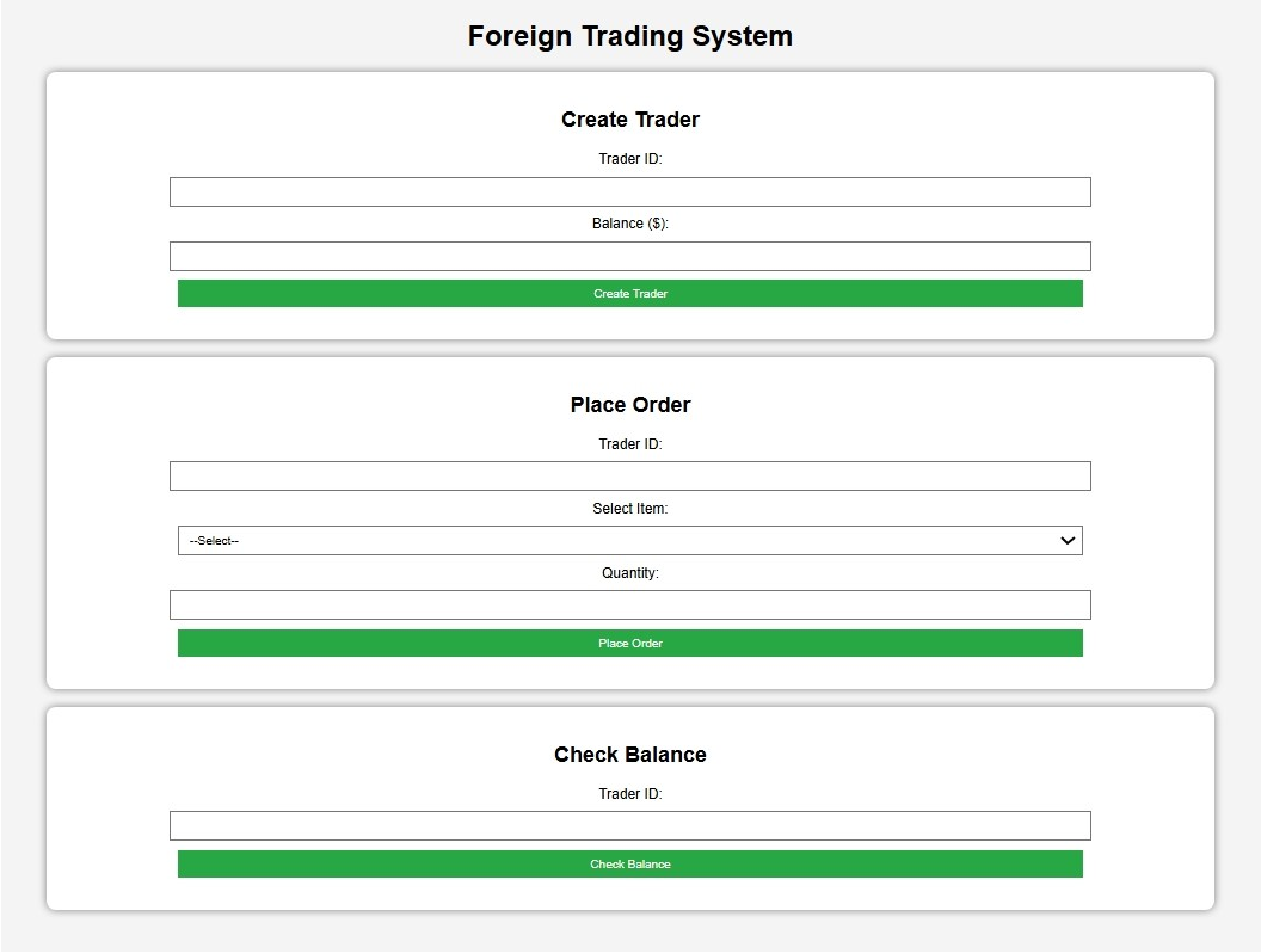
EXPERIMENT NO.07 DATE:

IMPLEMENT THE SYSTEM

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Trading Platform</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <h1>Foreign Trading System</h1>

    <!-- Trader Creation Section -->
    <section>
        <h2>Create Trader</h2>
        <label for="traderId">Trader ID:</label>
        <input type="text" id="traderId">

        <label for="balance">Balance ($):</label>
        <input type="number" id="balance">

        <button onclick="createTrader()">Create Trader</button>
        <p id="traderMessage"></p>
    </section>

    <!-- Order Placement Section -->
    <section>
        <h2>Place Order</h2>
        <label for="orderTraderId">Trader ID:</label>
        <input type="text" id="orderTraderId">
        <label for="item">Select Item:</label>
        <select id="item">
            <option value="">--Select--</option>
            <option value="Laptop">Laptop ($500)</option>
            <option value="Phone">Phone ($300)</option>
            <option value="Tablet">Tablet ($200)</option>
            <option value="Headphones">Headphones ($100)</option>
        </select>

        <label for="quantity">Quantity:</label>
        <input type="number" id="quantity">

        <button onclick="placeOrder()">Place Order</button>
        <p id="orderMessage"></p>
    </section>

    <!-- Balance Check Section -->
    <section>
        <h2>Check Balance</h2>
        <label for="checkTraderId">Trader ID:</label>
        <input type="text" id="checkTraderId">

        <button onclick="checkBalance()">Check Balance</button>
        <p id="balanceMessage"></p>
    </section>

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

```
body {
  font-family: Arial, sans-serif;
  text-align: center;
  background-color: #f4f4f4;
}

section {
  background: white;
  padding: 20px;
  margin: 20px auto;
  width: 50%;
  border-radius: 10px;
  box-shadow: 0px 0px 10px gray;
}

input, select, button {
  display: block;
  margin: 10px auto;
  padding: 8px;
  width: 80%;
}

button {
  background-color: #28a745;
  color: white;
  border: none;
  cursor: pointer;
}

button:hover {
  background-color: #218838;
```

```
}

p {
    font-weight: bold;
    color: red;
}

// Store traders and items with prices
let traders = {};
const itemPrices = {
    "Laptop": 500,
    "Phone": 300,
    "Tablet": 200,
    "Headphones": 100
};

// Function to create a trader
function createTrader() {
    let traderId = document.getElementById("traderId").value;
    let balance = document.getElementById("balance").value;

    if (!traderId || balance === "") {
        document.getElementById("traderMessage").textContent = "Error: Invalid trader data.";
        return;
    }

    balance = parseFloat(balance);
    if (isNaN(balance) || balance < 0) {
        document.getElementById("traderMessage").textContent = "Error: Invalid balance. Please enter
a valid number.";
        return;
    }

    traders[traderId] = balance;
    document.getElementById("traderMessage").textContent = `Trader ${traderId} created with balance $${balance}.`;
}

// Function to place an order
function placeOrder() {
    let traderId = document.getElementById("orderTraderId").value;
    let item = document.getElementById("item").value;
    let quantity = document.getElementById("quantity").value;

    if (!traders[traderId]) {
        document.getElementById("orderMessage").textContent = "Error: Trader not found.";
        return;
    }

    if (!item) {
        document.getElementById("orderMessage").textContent = "Error: Please select an item.";
        return;
    }

    quantity = parseInt(quantity);
    if (isNaN(quantity) || quantity <= 0) {
        document.getElementById("orderMessage").textContent = "Error: Invalid amount. Cannot place an order with 0 or negative quantity.";
        return;
    }

    let totalCost = itemPrices[item] * quantity;
    if (traders[traderId] < totalCost) {
        document.getElementById("orderMessage").textContent = `Error: Not enough balance to place the order. Required: $${totalCost}, Available: $${traders[traderId]}.`;
        return;
    }

    traders[traderId] -= totalCost;
    document.getElementById("orderMessage").textContent = `Order placed for ${quantity} ${item}(s). Total: $${totalCost}. Remaining balance: $${traders[traderId]}.`;
}

// Function to check balance
function checkBalance() {
    let traderId = document.getElementById("checkTraderId").value;

    if (!traders[traderId]) {
        document.getElementById("balanceMessage").textContent = "Error: Trader not found.";
        return;
    }

    document.getElementById("balanceMessage").textContent = `Trader ${traderId} balance: $${traders[traderId]}.`;
}
```



Foreign Trading System

Create Trader

Place Order

Check Balance