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Lab 6

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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Shopping List</title>
  <style>
    /* Add some basic styling */
    body {
      font-family: Arial, sans-serif;
    }
    #shopping-list {
      margin: 20px;
    }
    table {
      width: 100%;
      border-collapse: collapse;
    }
    th, td {
      border: 1px solid #dddddd;
      padding: 8px;
      text-align: left;
    }
    th {
      background-color: #f2f2f2;
    }
    input[type="checkbox"] {
      margin-right: 5px;
    }
  </style>
</head>
<body>
  <div id="shopping-list">
    <h2>Shopping List</h2>
    <input type="text" id="input-item" placeholder="Enter item...">
    <input type="text" id="input-amount" placeholder="Enter amount...">
    <input type="text" id="input-quantity" placeholder="Enter quantity...">
    <button id="add-item-btn">Add Item</button>
    <table id="items-table">
      <thead>
        <tr>
          <th>Item</th>
          <th>Amount</th>
          <th>Quantity</th>
          <th>Bought</th>
        </tr>
      </thead>
      <tbody id="items-list"></tbody>
    </table>
  </div>
```

```

<script>
// Model
class ShoppingListModel {
  constructor() {
    this.items = [];
  }

  addItem(item) {
    this.items.push(item);
  }
}

// View
class ShoppingListView {
  constructor() {
    this.itemsTable = document.getElementById('items-table');
    this.inputItem = document.getElementById('input-item');
    this.inputAmount = document.getElementById('input-amount');
    this.inputQuantity = document.getElementById('input-quantity');
    this.addItemBtn = document.getElementById('add-item-btn');
  }

  bindAddItem(handler) {
    this.addItemBtn.addEventListener('click', () => {
      const itemName = this.inputItem.value.trim();
      const itemAmount = this.inputAmount.value.trim();
      const itemQuantity = this.inputQuantity.value.trim();
      if (itemName !== '') {
        handler({ name: itemName, amount: itemAmount, quantity: itemQuantity });
      } else {
        alert('Please enter an item.');
```

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    }

    // Controller
    class ShoppingListController {
        constructor(model, view) {
            this.model = model;
            this.view = view;

            this.view.bindAddItem(this.handleAddItem.bind(this));

            this.renderList();
        }

        handleAddItem(item) {
            this.model.addItem({ ...item, checked: false });
            this.renderList();
        }

        renderList() {
            const items = this.model.items;
            this.view.renderList(items);
        }
    }

    // Initialize the application
    const model = new ShoppingListModel();
    const view = new ShoppingListView();
    const controller = new ShoppingListController(model, view);
</script>
</body>
</html>

```

Shopping List

Shoes	1700	1	Add Item
Item	Amount	Quantity	Bought
Book	1500	2	<input type="checkbox"/>
Bag	1000	1	<input checked="" type="checkbox"/>
Pen	20	5	<input checked="" type="checkbox"/>
Shoes	1700	1	<input type="checkbox"/>