Name – Keshav Kumar Roll No. – 22CS3034 Lab 6

```
<!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 */
     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>
   <thead>
       Item
         Amount
         Quantity
         Bought
       </thead>
     </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 });
          alert('Please enter an item.');
        }
      });
    }
    renderList(items) {
      const itemsList = document.getElementById('items-list');
      itemsList.innerHTML = ";
      items.forEach(item => {
        const row = itemsList.insertRow();
        const cellName = row.insertCell(0);
        const cellAmount = row.insertCell(1);
        const cellQuantity = row.insertCell(2);
        const cellBought = row.insertCell(3);
        cellName.textContent = item.name;
        cellAmount.textContent = item.amount;
        cellQuantity.textContent = item.quantity;
        const checkbox = document.createElement('input');
        checkbox.type = 'checkbox';
        checkbox.checked = item.checked;
        checkbox.addEventListener('change', () => {
          item.checked = checkbox.checked;
        });
        cellBought.appendChild(checkbox);
      });
    }
```

```
}
    // 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
                                                                                                          ☆ ひ | ₹ 🖪 🔞 :
← → ♂ (① File C:/Users/kesha/Downloads/Lab_assignment_5_T6.html
  Shopping List
  Shoes
  Item
                                                            Quantity
                                                                                              Bought
                            Amount
  Book
                            1500
                                                            2
  Bag
                            1000
                                                                                              V
                                                                                              Z
                            20
                                                            5
  Pen
                            1700
                                                            1
  Shoes
```