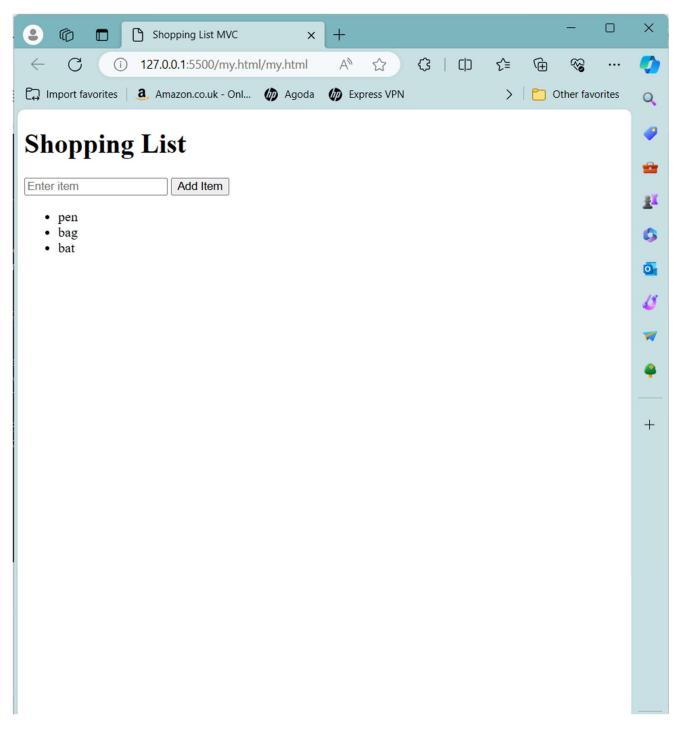
```
T1
```

```
<!DOCTYPE html>
<html lang="en">
<head>
   <script>
       // view.js
        class ShoppingListView {
            constructor() {
                this.itemInput = document.getElementById('itemInput');
                this.shoppingList = document.getElementById('shoppingList');
                this.addItemButton = document.querySelector('button');
                this.addItemButton.addEventListener('click', () =>
this.controller.addItem());
            bindRemoveItem(handler) {
                this.shoppingList.addEventListener('click', (event) => {
                    if (event.target.tagName === 'LI') {
                        const index =
Array.from(this.shoppingList.children).indexOf(event.target);
                        handler(index);
                });
            updateItemList(items) {
                this.shoppingList.innerHTML = "";
                items.forEach(item => {
                    const listItem = document.createElement("li");
                    listItem.textContent = item;
                    this.shoppingList.appendChild(listItem);
                });
            getItemInputValue() {
                return this.itemInput.value.trim();
            clearItemInput() {
                this.itemInput.value = '';
        // data.js
        class ShoppingListModel {
```

```
constructor() {
                this.items = [];
            addItem(itemName) {
                this.items.push(itemName);
               this.saveItemsToStorage();
            removeItem(index) {
                this.items.splice(index, 1);
                this.saveItemsToStorage();
            getItems() {
                return this.items;
            loadItemsFromStorage() {
                const storedItems =
JSON.parse(localStorage.getItem("shoppingList")) || [];
               this.items = storedItems;
           saveItemsToStorage() {
                localStorage.setItem("shoppingList", JSON.stringify(this.items));
       // controller.js
       class ShoppingListController {
           constructor(model, view) {
                this.model = model;
               this.view = view;
               this.updateView();
                this.view.addItemButton.addEventListener('click', () =>
this.addItem());
            addItem() {
                const itemName = this.view.getItemInputValue();
               if (itemName !== '') {
                    this.model.addItem(itemName);
                    this.updateView();
                    this.view.clearItemInput();
            updateView() {
                const items = this.model.getItems();
```

```
this.view.updateItemList(items);
           bindRemoveItem() {
               this.view.bindRemoveItem(index => {
                  this.model.removeItem(index);
                  this.updateView();
               });
   </script>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Shopping List MVC</title>
   <style> </style>
</head>
<body>
   <h1>Shopping List</h1>
   <div>
       <input type="text" id="itemInput" placeholder="Enter item">
       <button>Add Item
   </div>
   <script>
       const model = new ShoppingListModel();
       const view = new ShoppingListView();
       const controller = new ShoppingListController(model, view);
       model.loadItemsFromStorage();
       controller.updateView();
   </script>
</body>
</body>
</html>
```



T2

```
<h1>Shopping List</h1>
   <div>
       <input type="text" id="itemInput" placeholder="Enter item">
       <button>Add Item
   </div>
   Page accessed: <span id="count"></span> times
   <script>
       // controller.js
       class ShoppingListController {
           constructor(model, view) {
               this.model = model;
               this.view = view;
               this.view.setController(this);
               this.updateView();
               this.updateAccessCount(); // Add this line to update access count
on initialization
               this.view.addItemButton.addEventListener('click', () =>
this.addItem());
           addItem() {
               const itemName = this.view.getItemInputValue();
               if (itemName !== '') {
                   this.model.addItem(itemName);
                  this.updateView();
                   this.view.clearItemInput();
           updateView() {
               const items = this.model.getItems();
               this.view.updateItemList(items);
           bindRemoveItem() {
               this.view.bindRemoveItem(index => {
                  this.model.removeItem(index);
                  this.updateView();
               });
           updateAccessCount() {
               const accessCount = this.model.getAccessCount();
               console.log('Updating access count:', accessCount);
```

```
this.view.updateAccessCount(accessCount);
        class ShoppingListModel {
            constructor() {
               this.items = [];
               this.accessCount = 0;
            addItem(itemName) {
                this.items.push(itemName);
                this.saveItemsToStorage();
            removeItem(index) {
               this.items.splice(index, 1);
                this.saveItemsToStorage();
            getItems() {
                return this.items;
            loadItemsFromStorage() {
                const storedItems =
JSON.parse(localStorage.getItem("shoppingList")) || [];
                this.items = storedItems;
            saveItemsToStorage() {
                localStorage.setItem("shoppingList", JSON.stringify(this.items));
            loadAccessCountFromStorage() {
                this.accessCount = parseInt(localStorage.getItem("accessCount"))
|| 0;
            incrementAccessCount() {
                this.accessCount++;
                this.saveAccessCountToStorage();
            getAccessCount() {
                return this.accessCount;
            saveAccessCountToStorage() {
                localStorage.setItem("accessCount", this.accessCount.toString());
```

```
}
        class ShoppingListView {
            constructor() {
                this.itemInput = document.getElementById('itemInput');
                this.shoppingList = document.getElementById('shoppingList');
                this.addItemButton = document.querySelector('button');
                this.accessCountDisplay = document.getElementById('count');
                this.controller = null;
                this.addItemButton.addEventListener('click', () =>
this.controller.addItem());
            bindRemoveItem(handler) {
                this.shoppingList.addEventListener('click', (event) => {
                    if (event.target.tagName === 'LI') {
                        const index =
Array.from(this.shoppingList.children).indexOf(event.target);
                        handler(index);
                });
            updateItemList(items) {
                this.shoppingList.innerHTML = "";
                items.forEach(item => {
                    const listItem = document.createElement("li");
                    listItem.textContent = item;
                    this.shoppingList.appendChild(listItem);
                });
            getItemInputValue() {
                return this.itemInput.value.trim();
            clearItemInput() {
                this.itemInput.value = '';
            updateAccessCount(count) {
                this.accessCountDisplay.textContent = count;
            setController(controller) {
                this.controller = controller;
```

