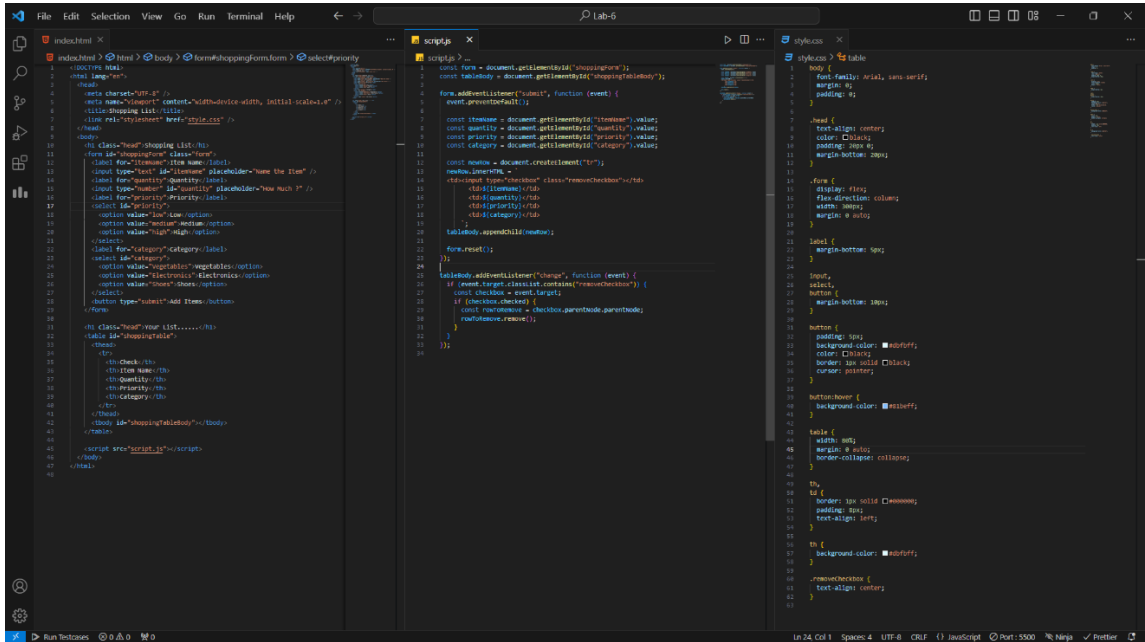


Name: Rishit Tiwari
Roll No. : 22CS3050

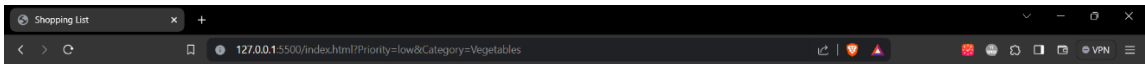
LAB – 06

WEB TECHNOLOGY

SHOPPING LIST PAGE USING HTML,CSS,JS



DEFAULT PAGE VIEW



Shopping List

Item Name

Quantity

Priority

Category

Your List.....

Check	Item Name	Quantity	Priority	Category
-------	-----------	----------	----------	----------

ADDED INPUT FIELDS

Shopping List

Item Name
TV

Quantity
1

Priority
High

Category
Electronics

Add Items

Your List.....

Check	Item Name	Quantity	Priority	Category
-------	-----------	----------	----------	----------

ON CLICKING SUBMIT

Shopping List

Item Name
Name the Item

Quantity
How Much ?

Priority
Low

Category
Vegetables

Add Items

Your List.....

Check	Item Name	Quantity	Priority	Category
<input type="checkbox"/>	TV	1	high	Electronics

ADDED 3 ITEMS IN THE LIST



Shopping List

Item Name

Quantity

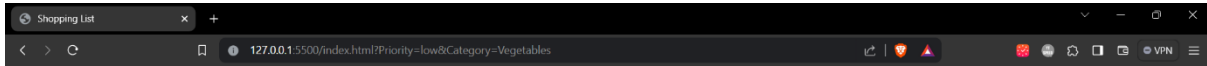
Priority

Category

Your List.....

Check	Item Name	Quantity	Priority	Category
<input type="checkbox"/>	TV	1	high	Electronics
<input type="checkbox"/>	Potatoes	12	medium	Vegetables
<input type="checkbox"/>	Air Jordan	2	low	Shoes

AFTER DELETING SECOND ITEM



Shopping List

Item Name

Quantity

Priority

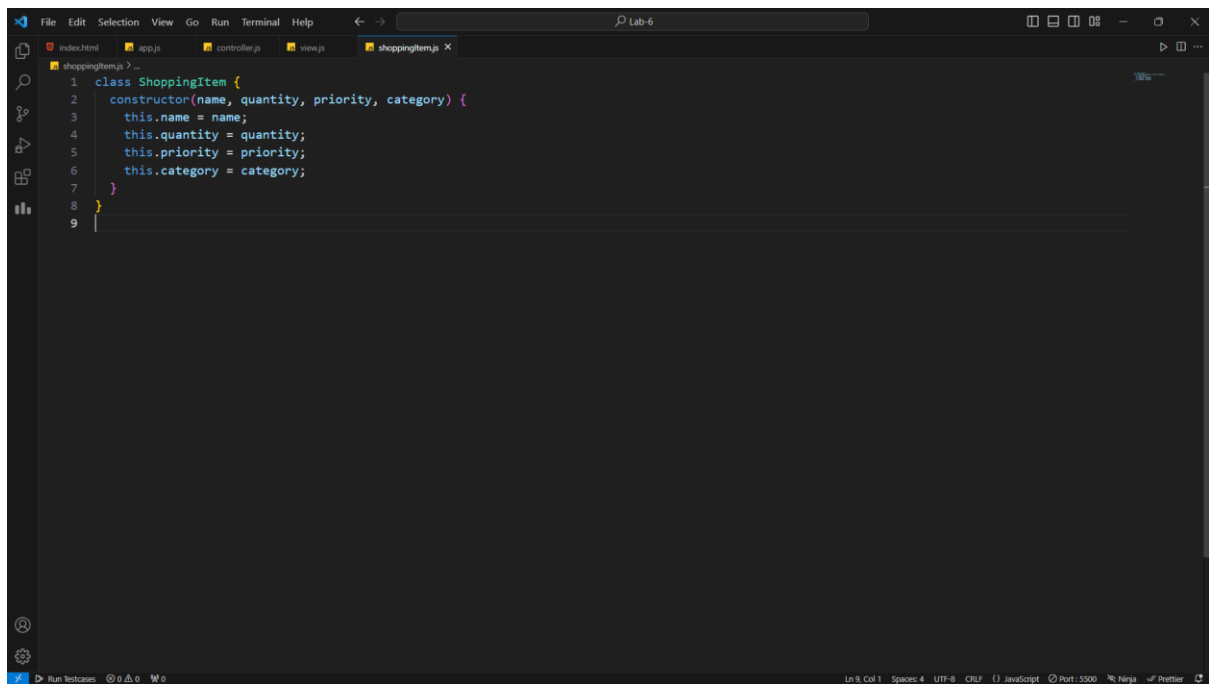
Category

Your List.....

Check	Item Name	Quantity	Priority	Category
<input type="checkbox"/>	TV	1	high	Electronics
<input type="checkbox"/>	Air Jordan	2	low	Shoes

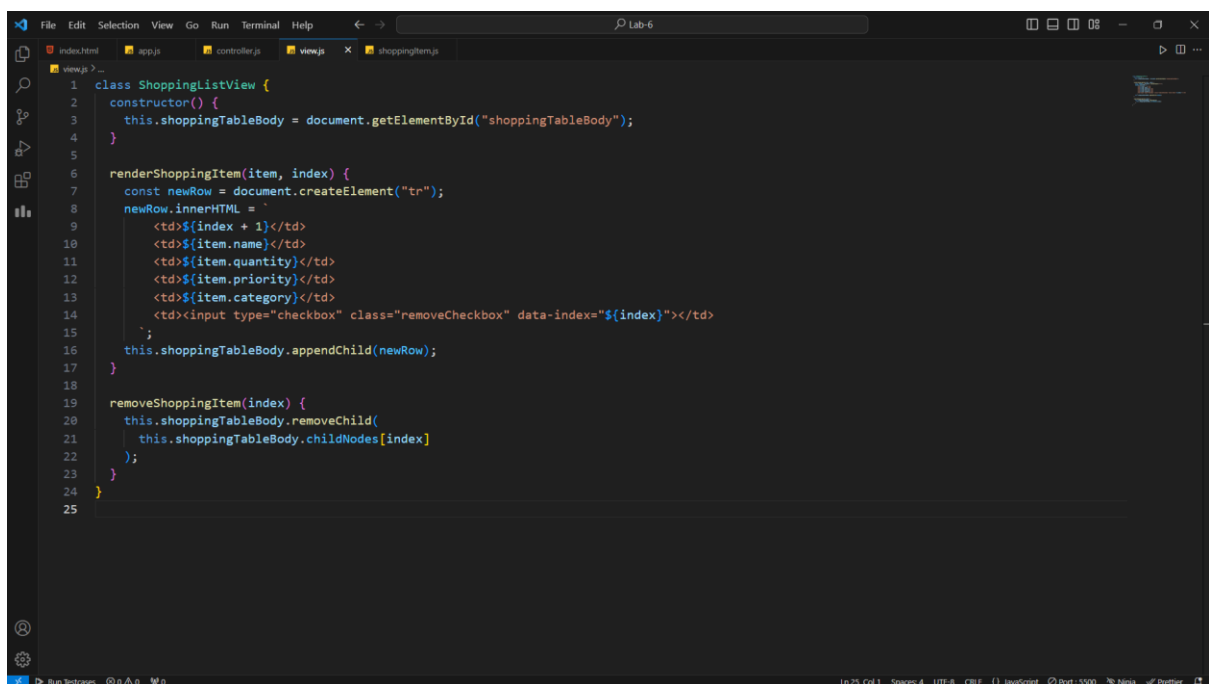
MODEL VIEW CONTROLLER

MODEL



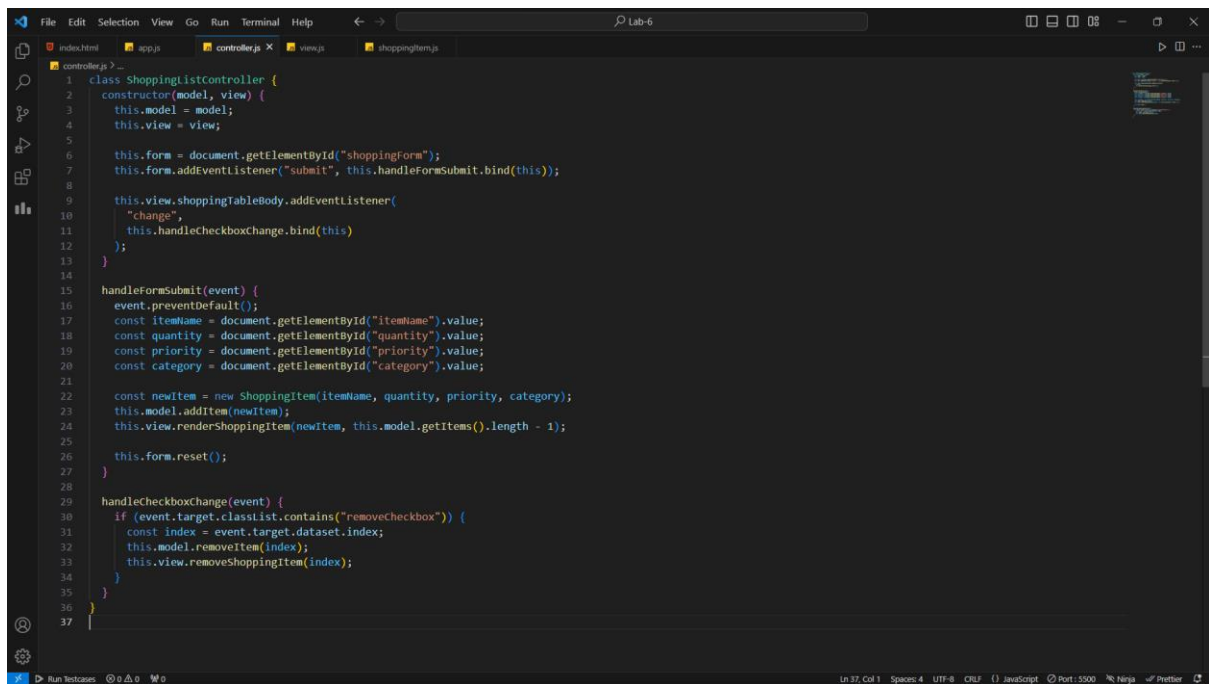
```
1 class ShoppingItem {
2   constructor(name, quantity, priority, category) {
3     this.name = name;
4     this.quantity = quantity;
5     this.priority = priority;
6     this.category = category;
7   }
8 }
9
```

VIEW



```
1 class ShoppingListView {
2   constructor() {
3     this.shoppingTableBody = document.getElementById("shoppingTableBody");
4   }
5
6   renderShoppingItem(item, index) {
7     const newRow = document.createElement("tr");
8     newRow.innerHTML = `
9       <td>${index + 1}</td>
10      <td>${item.name}</td>
11      <td>${item.quantity}</td>
12      <td>${item.priority}</td>
13      <td>${item.category}</td>
14      <td><input type="checkbox" class="removeCheckbox" data-index="${index}"></td>
15    `;
16     this.shoppingTableBody.appendChild(newRow);
17   }
18
19   removeShoppingItem(index) {
20     this.shoppingTableBody.removeChild(
21       this.shoppingTableBody.childNodes[index]
22     );
23   }
24 }
25
```

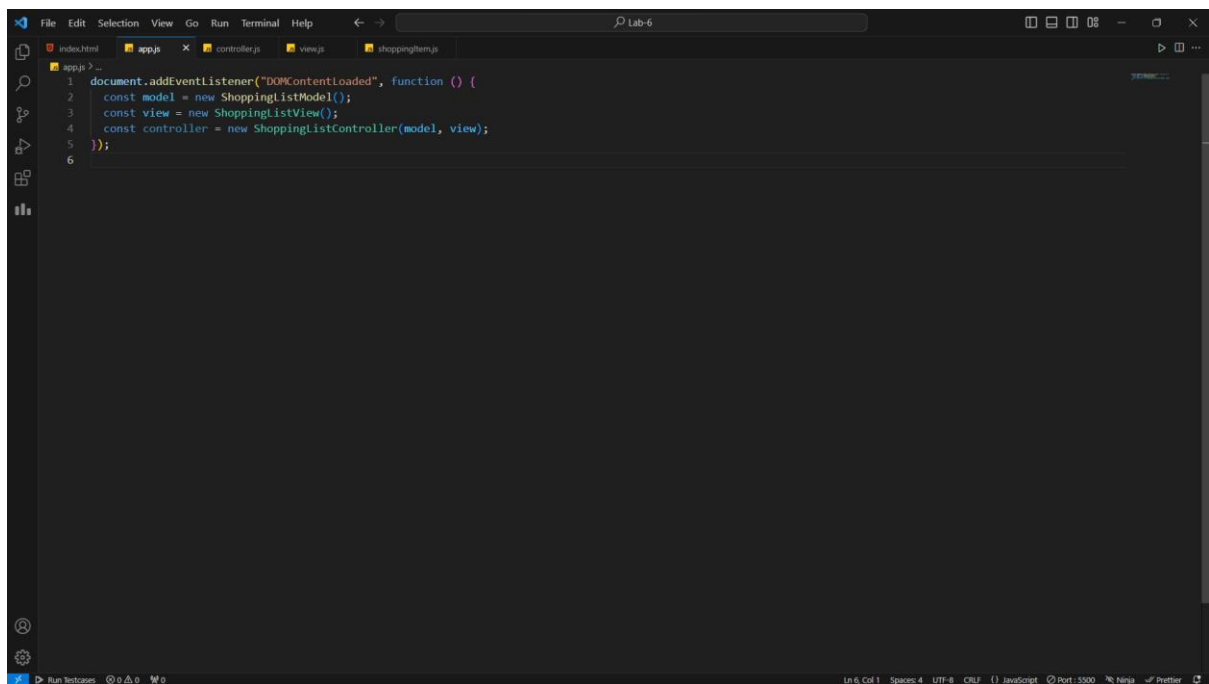
CONTROLLER



The screenshot shows a VS Code editor window with the file explorer on the left displaying a project structure with files: index.html, app.js, controller.js, view.js, and shoppingItem.js. The controller.js file is open in the editor, showing the following code:

```
1 class ShoppingListController {
2   constructor(model, view) {
3     this.model = model;
4     this.view = view;
5
6     this.form = document.getElementById("shoppingForm");
7     this.form.addEventListener("submit", this.handleFormSubmit.bind(this));
8
9     this.view.shoppingTableBody.addEventListener(
10      "change",
11      this.handleCheckboxChange.bind(this)
12    );
13  }
14
15  handleFormSubmit(event) {
16    event.preventDefault();
17    const itemName = document.getElementById("itemName").value;
18    const quantity = document.getElementById("quantity").value;
19    const priority = document.getElementById("priority").value;
20    const category = document.getElementById("category").value;
21
22    const newItem = new ShoppingItem(itemName, quantity, priority, category);
23    this.model.addItem(newItem);
24    this.view.renderShoppingItem(newItem, this.model.getItems().length - 1);
25
26    this.form.reset();
27  }
28
29  handleCheckboxChange(event) {
30    if (event.target.classList.contains("removeCheckbox")) {
31      const index = event.target.dataset.index;
32      this.model.removeItem(index);
33      this.view.removeShoppingItem(index);
34    }
35  }
36 }
37
```

INTEGRATION



The screenshot shows the same VS Code editor window, but now the app.js file is open in the editor. The code in app.js is as follows:

```
1 document.addEventListener("DOMContentLoaded", function () {
2   const model = new ShoppingListModel();
3   const view = new ShoppingListView();
4   const controller = new ShoppingListController(model, view);
5 });
6
```