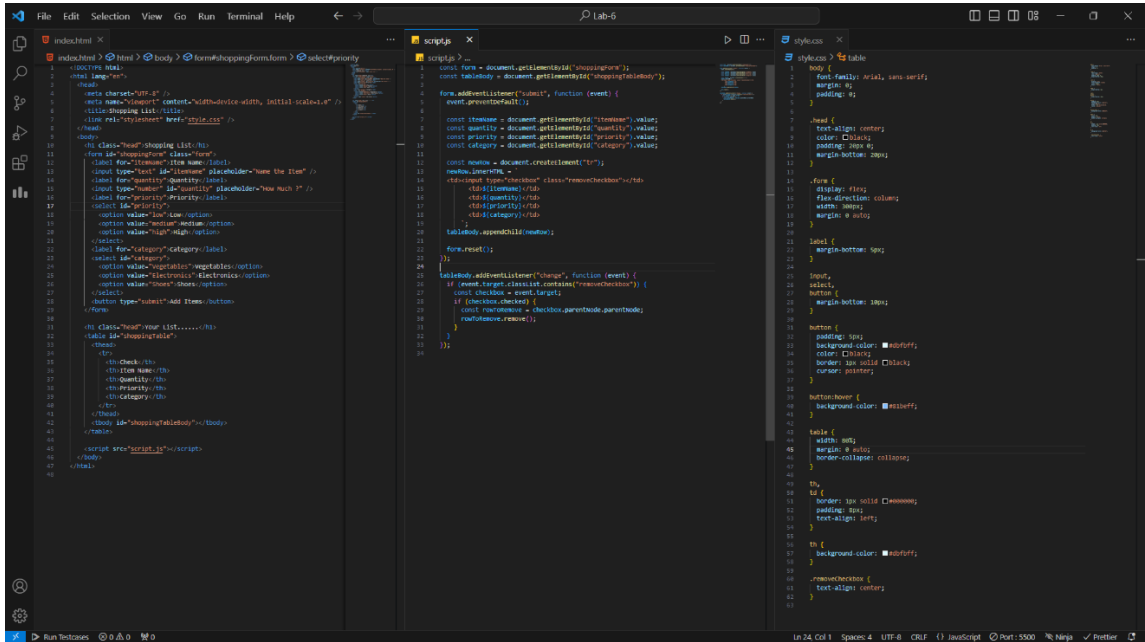Name: Rishit Tiwari
Roll No. : 22CS3050
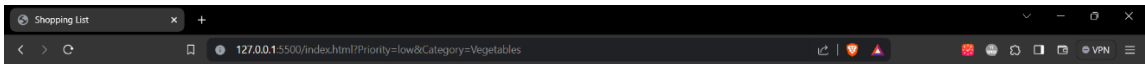
LAB – 06
WEB TECHNOLOGY

SHOPPING LIST PAGE USING HTML,CSS,JS

DEFAULT PAGE VIEW

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
☐	TV	1	high	Electronics

ADDED 3 ITEMS IN THE LIST

Shopping List

Item Name
[Name the Item]

Quantity
[How Much ?]

Priority
[Low ▾]

Category
[Vegetables ▾]

[Add Items]

Your List......

Check	Item Name	Quantity	Priority	Category
☐	TV	1	high	Electronics
☐	Potatoes	12	medium	Vegetables
☐	Air Jordan	2	low	Shoes

AFTER DELETING SECOND ITEM
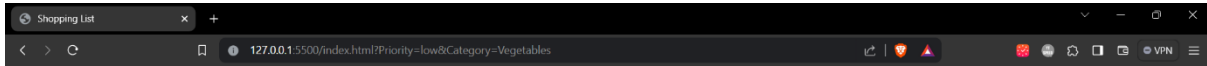
Shopping List

Item Name
[Name the Item]

Quantity
[How Much ?]

Priority
[Low ▾]

Category
[Vegetables ▾]

[Add Items]
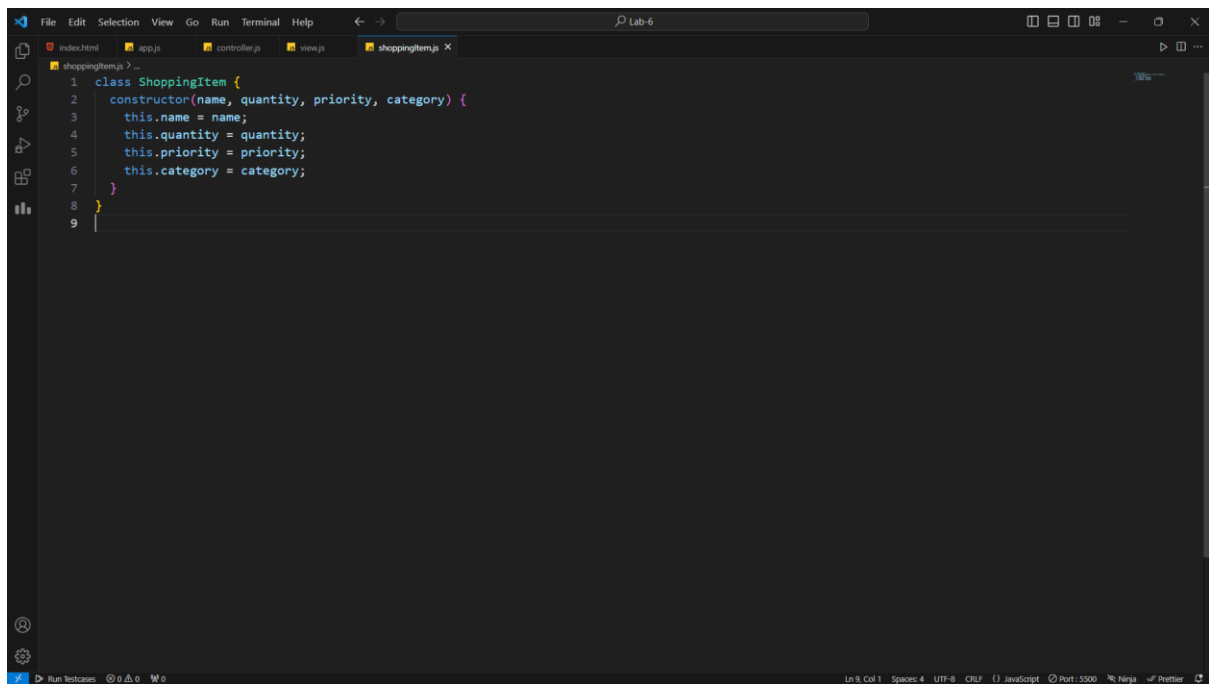
Your List......

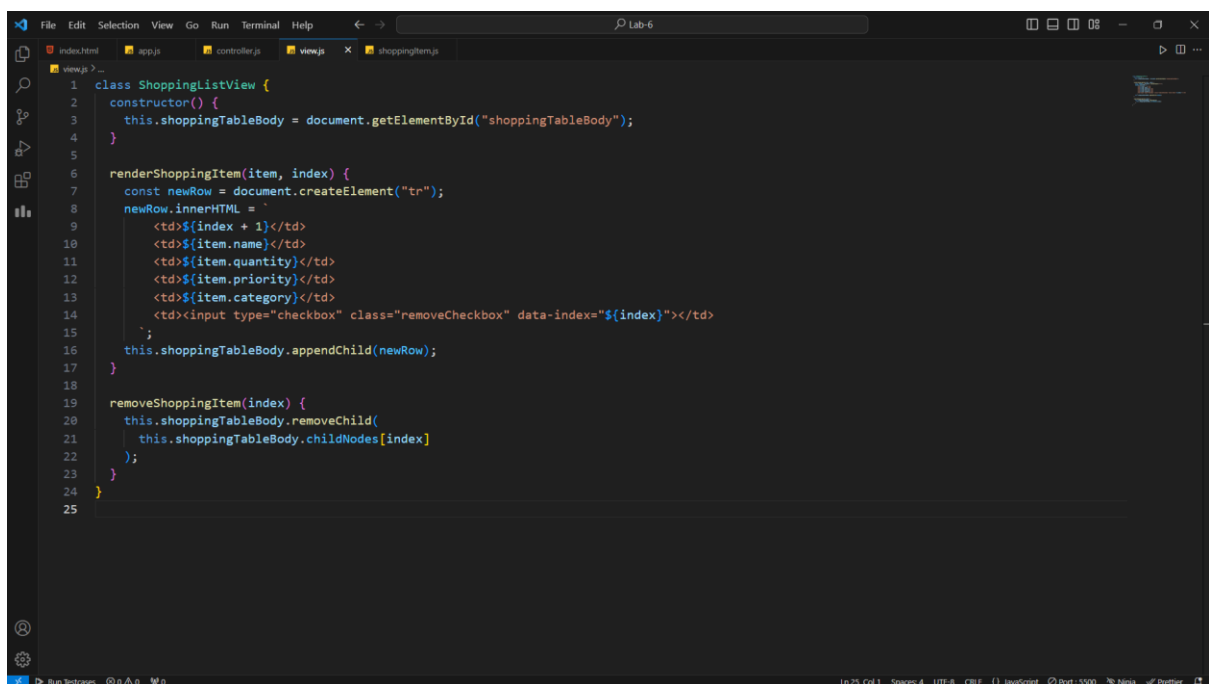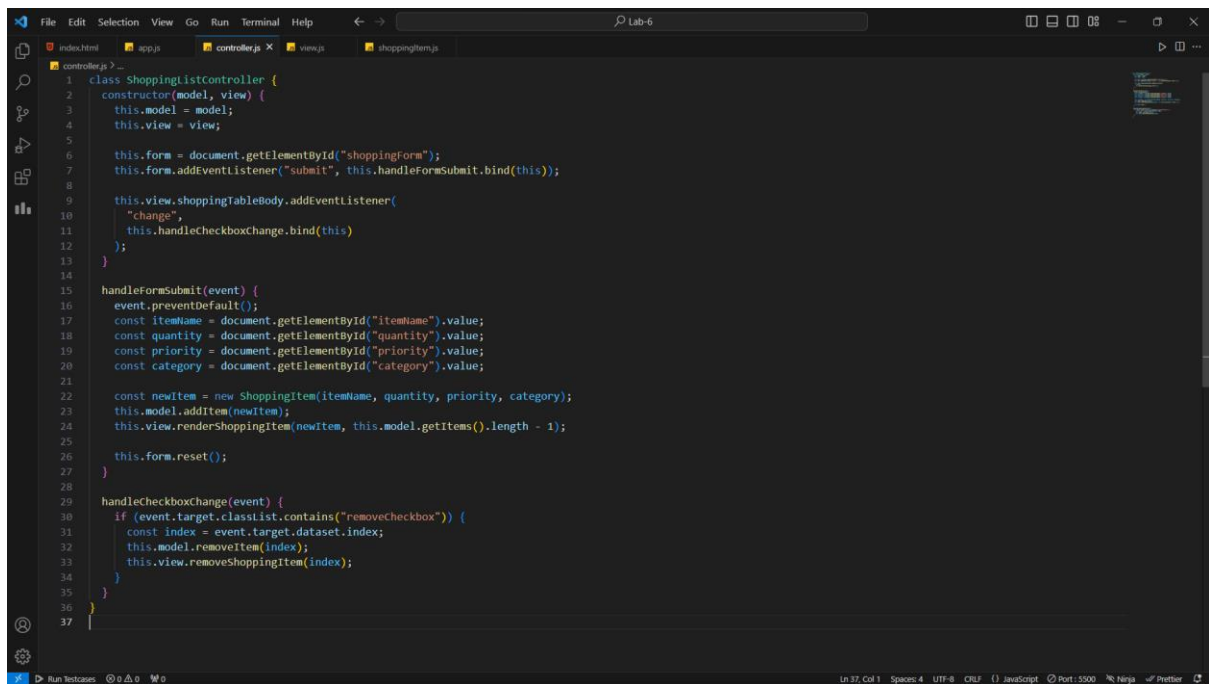| Check	Item Name	Quantity	Priority	Category
☐	TV	1	high	Electronics
☐	Air Jordan	2	low	Shoes

MODEL VIEW CONTROLLER

MODEL


```javascript
class ShoppingItem {
  constructor(name, quantity, priority, category) {
    this.name = name;
    this.quantity = quantity;
    this.priority = priority;
    this.category = category;
  }
}
```

VIEW


```javascript
class ShoppingListView {
  constructor() {
    this.shoppingTableBody = document.getElementById("shoppingTableBody");
  }

  renderShoppingItem(item, index) {
    const newRow = document.createElement("tr");
    newRow.innerHTML = `
        <td>${index + 1}</td>
        <td>${item.name}</td>
        <td>${item.quantity}</td>
        <td>${item.priority}</td>
        <td>${item.category}</td>
        <td><input type="checkbox" class="removeCheckbox" data-index="${index}"></td>
      `;
    this.shoppingTableBody.appendChild(newRow);
  }

  removeShoppingItem(index) {
    this.shoppingTableBody.removeChild(
      this.shoppingTableBody.childNodes[index]
    );
  }
}
```
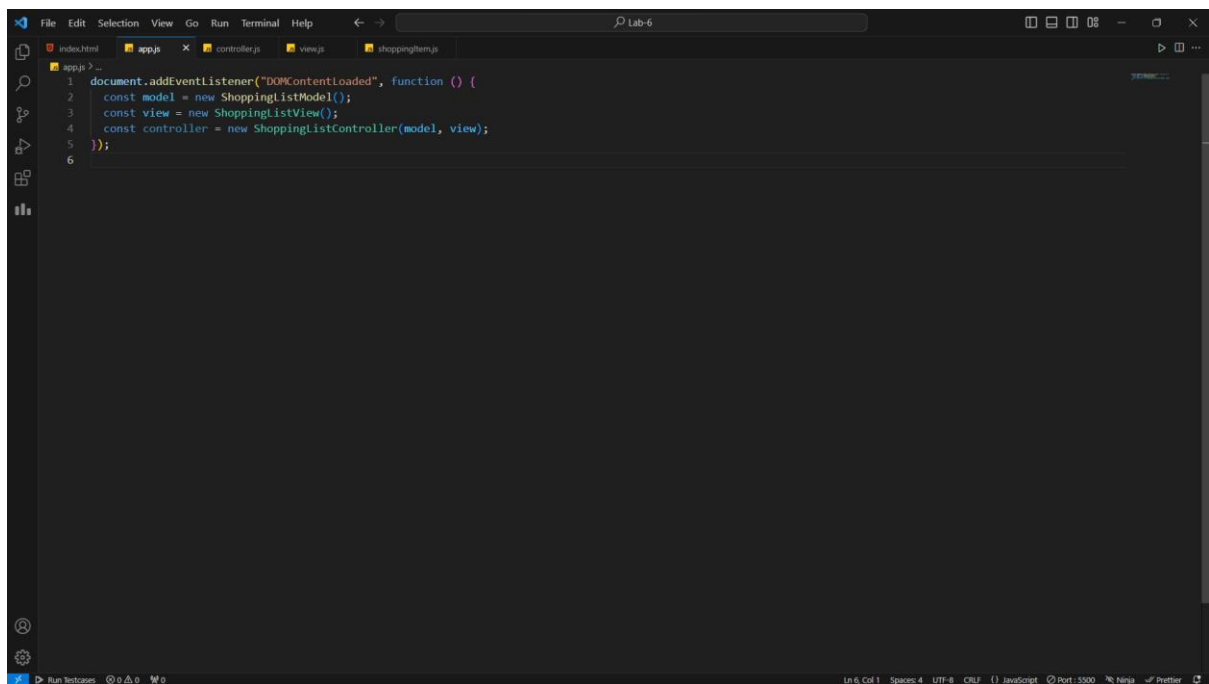
CONTROLLER

```javascript
class ShoppingListController {
  constructor(model, view) {
    this.model = model;
    this.view = view;

    this.form = document.getElementById("shoppingForm");
    this.form.addEventListener("submit", this.handleFormSubmit.bind(this));

    this.view.shoppingTableBody.addEventListener(
      "change",
      this.handleCheckboxChange.bind(this)
    );
  }

  handleFormSubmit(event) {
    event.preventDefault();
    const itemName = document.getElementById("itemName").value;
    const quantity = document.getElementById("quantity").value;
    const priority = document.getElementById("priority").value;
    const category = document.getElementById("category").value;

    const newItem = new ShoppingItem(itemName, quantity, priority, category);
    this.model.addItem(newItem);
    this.view.renderShoppingItem(newItem, this.model.getItems().length - 1);

    this.form.reset();
  }

  handleCheckboxChange(event) {
    if (event.target.classList.contains("removeCheckbox")) {
      const index = event.target.dataset.index;
      this.model.removeItem(index);
      this.view.removeShoppingItem(index);
    }
  }
}
```

INTEGRATION

```javascript
document.addEventListener("DOMContentLoaded", function () {
  const model = new ShoppingListModel();
  const view = new ShoppingListView();
  const controller = new ShoppingListController(model, view);
});
```