

Project Report

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Course:

L&T

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Introduction

This report presents two web development projects developed as part of coursework. The projects are designed to demonstrate the use of HTML, CSS, JavaScript, frameworks, and libraries for building interactive and user-friendly applications. The first project is a To-Do List web application using Bootstrap and jQuery, while the second is a Recipe Book web application developed with React and TypeScript.

Project 1: To-Do List Web Application

Objective

The objective of this project was to create a simple task management application where users can add, edit, delete, and filter tasks. The app helps improve productivity by keeping track of daily activities.

Tools and Technologies

- HTML
- CSS
- Bootstrap 5
- jQuery
- LocalStorage API

Features

- Add, edit, and delete tasks
- Mark tasks as completed
- Filter tasks (All, Active, Completed)
- Display task statistics (Total, Active, Completed)
- Save tasks in browser using LocalStorage
- Responsive design with Bootstrap and icons

Implementation Summary

The To-Do List app uses an input field for adding tasks, with options to edit or delete them. Tasks are displayed dynamically using jQuery and styled with Bootstrap. LocalStorage ensures that tasks remain available even after refreshing the page. Filtering functionality was implemented using jQuery event handlers.

Project 2: Recipe Book Web Application

Objective

The objective of this project was to build an interactive recipe book application where users can browse, search, and filter recipes. It demonstrates the use of React, TypeScript, and TailwindCSS for modern web development.

Tools and Technologies

- React
- TypeScript
- TailwindCSS
- shadcn/ui
- Lucide Icons

Features

- Browse recipes in a card-based layout
- Search recipes by name
- Filter by category, cuisine, or difficulty
- Sort recipes alphabetically
- View detailed recipe information with ingredients and instructions
- Responsive and modern UI design

Implementation Summary

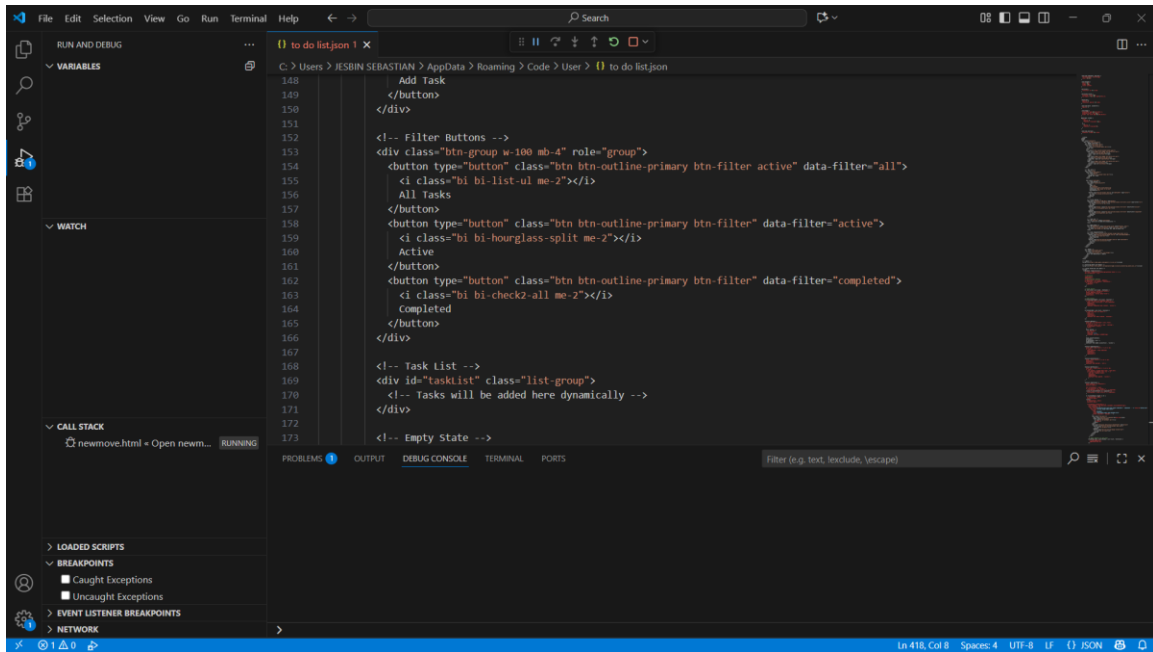
The Recipe Book app was built with React components and styled using TailwindCSS and shadcn/ui. Recipes are displayed in a responsive card grid layout with search and filtering options. Each recipe card provides quick details, while users can expand to view ingredients and step-by-step instructions. TypeScript ensured type safety during development.

Comparison and Learning

Both projects highlight different aspects of web development. The To-Do List project focuses on fundamentals of DOM manipulation, event handling, and persistence using jQuery and LocalStorage. The Recipe Book project demonstrates component-based development, responsive UI design, and modern frameworks. Together, these projects improved understanding of front-end development and enhanced problem-solving skills.

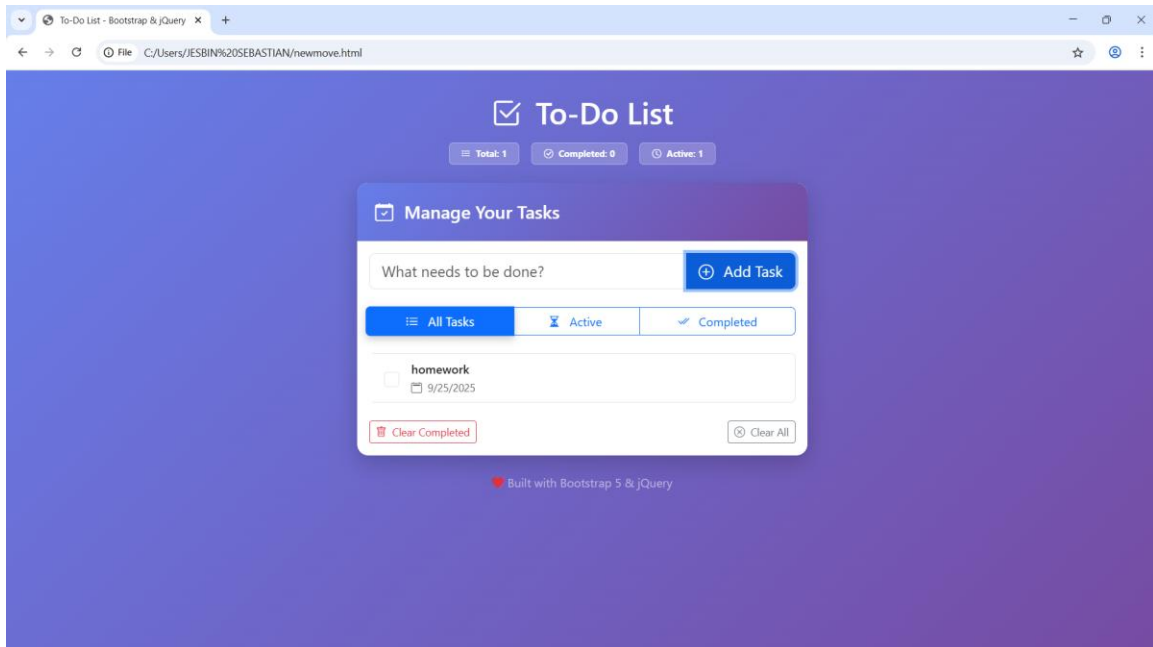
Project Codes and Outputs

Project 1: To-Do List Web Application - Code

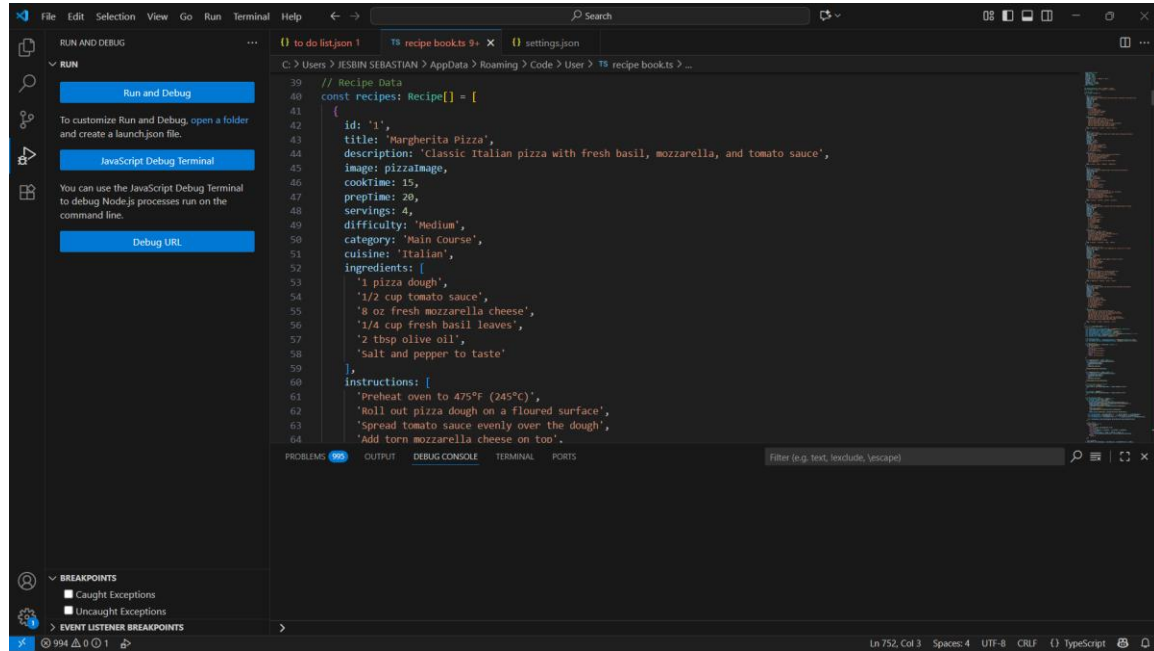


```
148     Add Task
149   </button>
150 </div>
151
152   <!-- Filter Buttons -->
153   <div class="btn-group w-100 mb-4" role="group">
154     <button type="button" class="btn btn-outline-primary btn-filter active" data-filter="all">
155       <i class="bi bi-list-ul me-2"></i>
156       All Tasks
157     </button>
158     <button type="button" class="btn btn-outline-primary btn-filter" data-filter="active">
159       <i class="bi bi-hourglass-split me-2"></i>
160       Active
161     </button>
162     <button type="button" class="btn btn-outline-primary btn-filter" data-filter="completed">
163       <i class="bi bi-check2-all me-2"></i>
164       Completed
165     </button>
166   </div>
167
168   <!-- Task List -->
169   <div id="taskList" class="list-group">
170     <!-- Tasks will be added here dynamically -->
171   </div>
172
173   <!-- Empty State -->
```

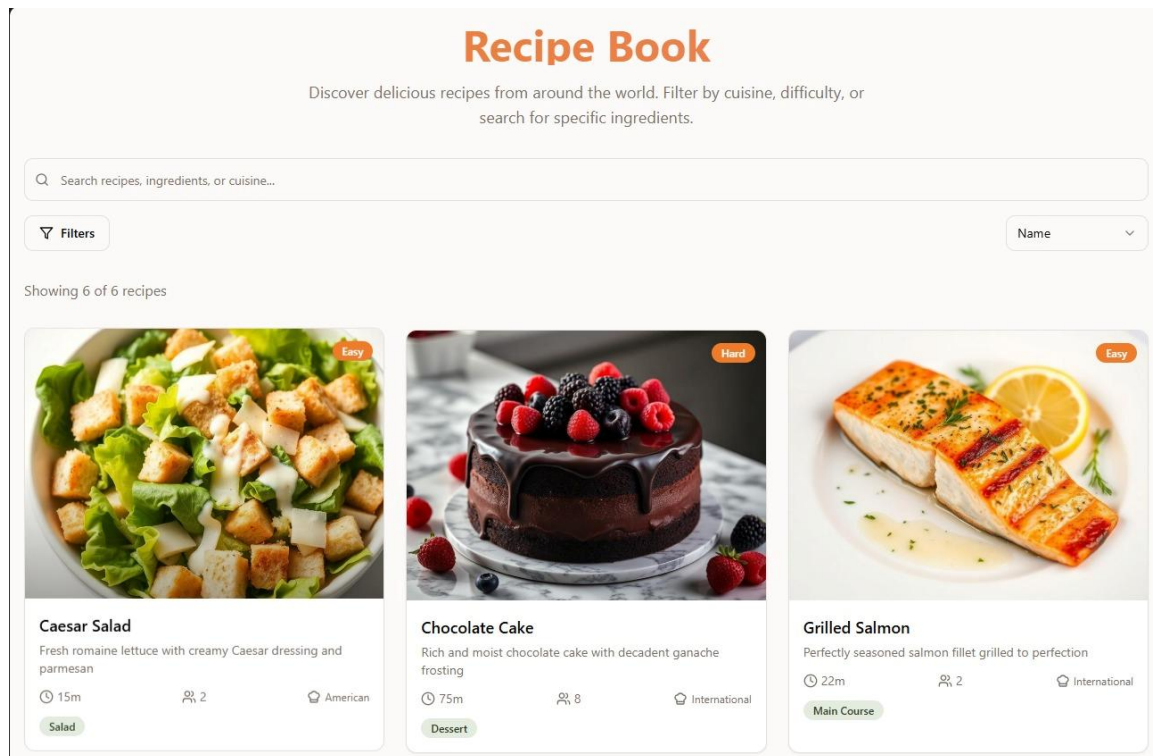
Project 1: Output



Project 2: Recipe Book Web Application – Code



Project 2: Output



Conclusion

Through the development of these two projects, key web development skills were acquired. The To-Do List project provided experience with Bootstrap, jQuery, and local storage, while the Recipe Book project introduced modern frameworks like React, TypeScript, and TailwindCSS. Future improvements could include adding authentication, cloud storage, and real-time updates. Overall, the projects demonstrate practical application of web technologies in building interactive applications.