Project Name: To-Do List Web Application

Name: Oluchi Queen Iheagwara

Track: Frontend Development

Tools: HTML • CSS • JavaScript

Instructor: *Flexisaf Internship Program*

Date: 12th *December 2025*

Project Overview

- This project is a modern and responsive **Task Planning Dashboard** that allows users to manage their daily activities in an organized and visually appealing interface.
It includes an interactive calendar, a task creation system, task editing tools, completion tracking, and a summary of pending/completed tasks.

- The goal was to apply real-world frontend development techniques such as DOM manipulation, media queries, UI layout structuring, and JavaScript event handling.

Problem Statement

Users often struggle with organizing tasks, remembering deadlines, and tracking their progress throughout the day.

Traditional to-do lists feel plain and do not offer a holistic planning experience.

This project solves this problem by providing:

- A **calendar to visualize dates**

- A **task board** to manage activities

- A **clean UI** that encourages planning

- A **progress summary** to track productivity

Project Objectives

- Build a **functional to-do planning system**

- Create a **modern UI design**

- Make the dashboard **fully responsive**

- Implement JavaScript features (add, edit, delete, complete tasks)

- Apply version-control best practices using Git

- Follow Flexisaf's project submission requirements

Features Implemented

- Add new tasks

- Edit existing tasks

- Delete tasks

- Mark tasks as completed

- Interactive calendar

- Dynamic task rendering

- Completed vs Pending counters

- Smooth UI layout

- Fully responsive media queries

UI Screenshots

- Homepage view

- Calendar view

- Add task

- Edit task

- Completed task

- Responsive (mobile/tablet) view

- Delete task

- After deletion

- Task summary

Tools & Technologies Used

- **HTML:** Page structure

- **CSS:** UI design, layout, media queries

- **JavaScript:** DOM manipulation, events, data update

- **Git + GitHub:** Version control

- **Netlify:** Hosting for live link

Development Process

- Creating folder structure

- Building static layout (HTML)

- Applying soft UI & responsive structure (CSS)

- Adding full functionality with JavaScript

- Testing responsiveness and browser compatibility

- Creating screenshots & documentation

- Deploying to Netlify

Challenges & Solutions

- **Challenge 1: Making the dashboard fully responsive**

- **Solution:** Implemented layered media queries for 1200px, 1000px, 900px, and 600px screens.

- **Challenge 2: Dynamic task rendering**

- **Solution:** Used JavaScript arrays + DOM manipulation to update tasks instantly.

- **Challenge 3: Aligning calendar layout with task board**

- **Solution:** Used CSS grid + flex to stabilize structure.

Lessons Learned

- How to build and structure a complete frontend project

- How to design visually pleasing UI layouts

- How to manage DOM elements dynamically

- How to use Git branches properly

- How to document and deploy a professional project

- How to debug layout and script issues

- Importance of clean code and responsive design

Live Link & GitHub Repository

- **Live Link:** *https://final-project-todo-webapp.netlify.app/*

- **GitHub Repository:** *https://github.com/queencyril/Final-Project/*

Thank you for reviewing my project.