MLSA Internship Project

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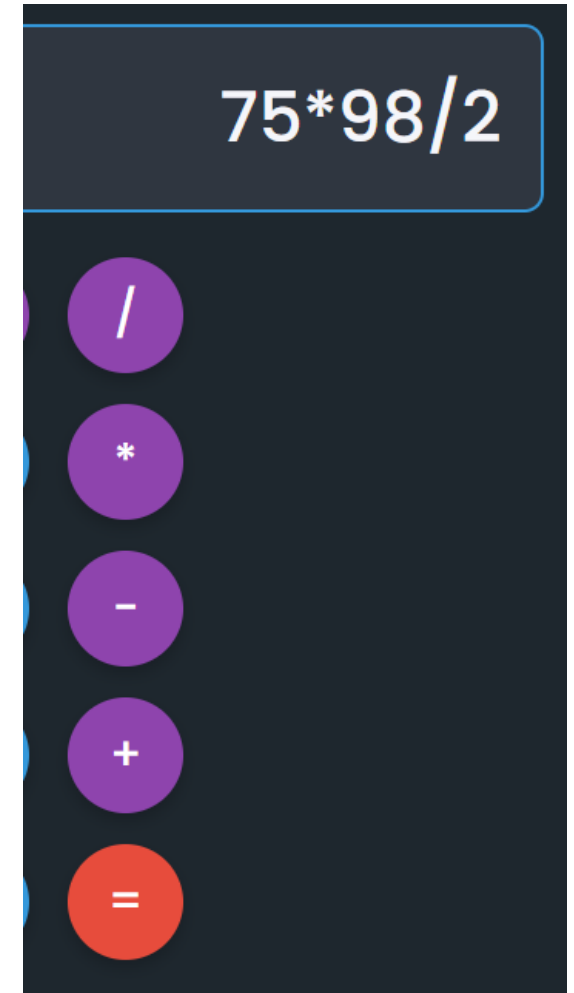
Table of Contents

Projects Overview

Summary of Projects

This section will cover two main projects completed during the MLSA Internship: a To-Do List application and a Calculator.
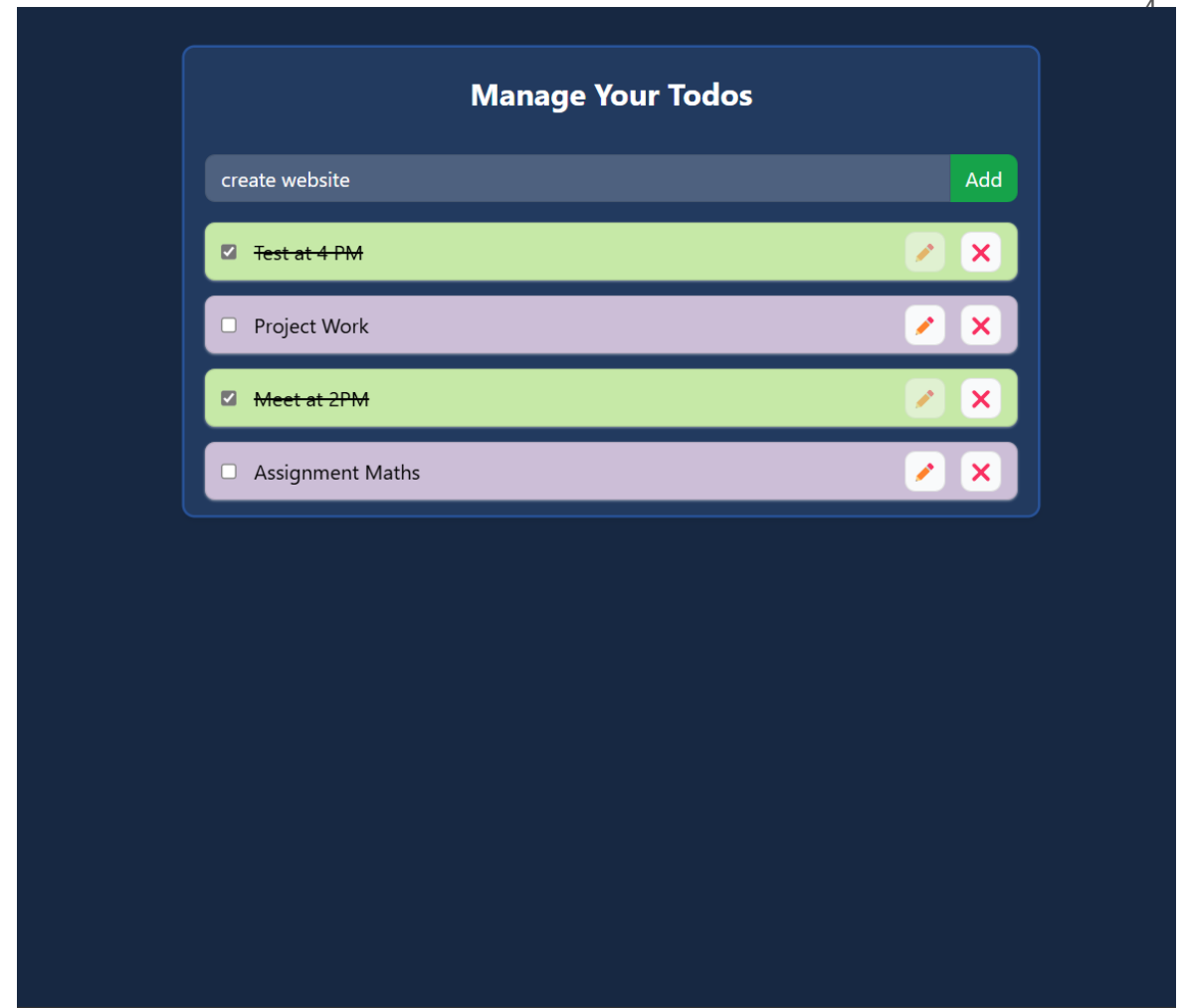
Skills Developed

The internship focused on enhancing skills in ReactJS, Context API, LocalStorage, and JavaScript, crucial for modern web development.

To-Do List Objectives

Highlight the goal of the To-Do List project.

The primary goal is to create a task management app enabling users to add, delete, and save tasks effectively for convenient future reference.

Technologies Used

Technology	Purpose	Project
ReactJS	UI components	To-Do List
Context API	Global state management	To-Do List
LocalStorage	Persistent data storage	To-Do List
JavaScript	Core functionality	Both projects

Key Features

### Task Addition and Deletion

Provides users the ability to seamlessly add new tasks or remove completed ones, ensuring efficient task management.

Persistent Storage

Tasks are saved to LocalStorage automatically, ensuring that user data isn't lost between sessions.

Modular UI Design

Utilizes React's component-based architecture for a clean, organized, and easily maintainable codebase.
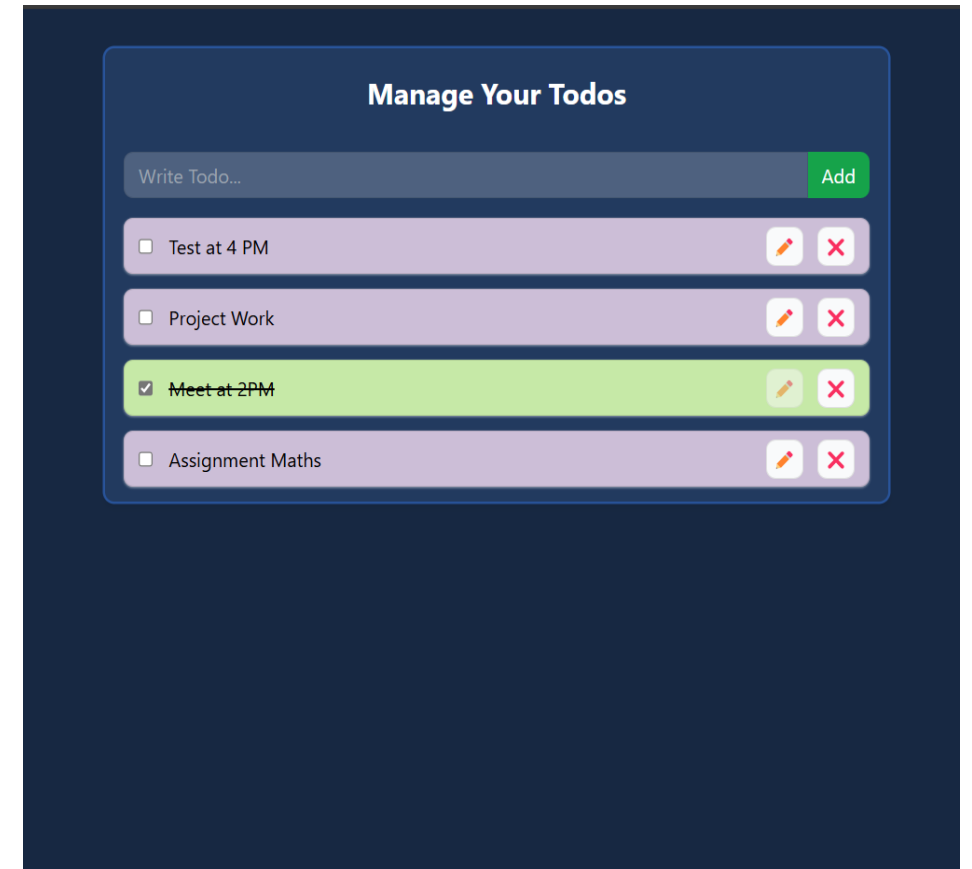
Future Enhancements

Discuss potential improvements for the To-Do List.

Future enhancements may include deadline setting for tasks, adding priority levels for better task organization, and improving the user interface for a better overall experience.

NEXT →

Calculator Objective

Goal of the Project

The primary goal is to develop a basic calculator capable of performing essential arithmetic operations. Users can easily add, subtract, multiply, and divide numbers.
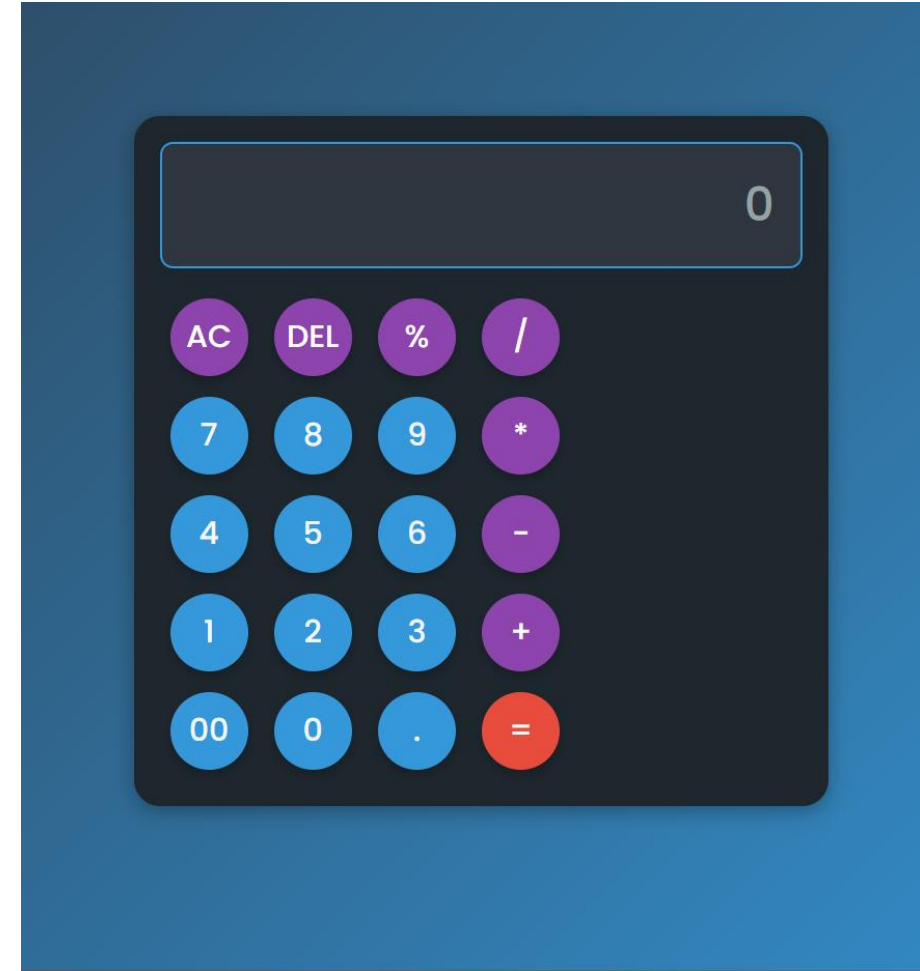
Technologies Used

| Technology	Purpose
HTML	UI components
CSS	Global state management
JavaScript	Core functionality

Key Features

Feature	Description
Core Arithmetic Functions	Supports addition, subtraction, multiplication, and division.
User-Friendly Interface	Intuitive layout for easy navigation and input.

Future Enhancements

Add Advanced Functionalities

Proposed features may include additional operations like square roots and memory functions. Enhancing the basic calculator will improve usability.
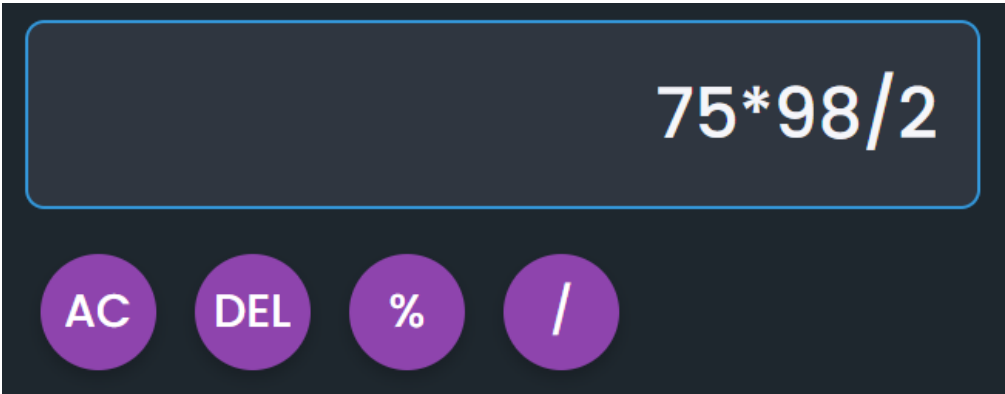
Conclusion

Project Outcomes

The To-Do List and Calculator projects reinforced foundational web development skills

To-Do list

Showcased effective use of ReactJS, Context API, and LocalStorage for state management and data persistence

Calculator

Demonstrated essential HTML, CSS, and JavaScript skills in building a functional UI with dynamic updates

NEXT →