

## VeriTech Internship Task-3 Report

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Task Title: To-Do App

### Task Description:

The third project task involved creating a functional To-Do App. The goal was to design a user-friendly interface that allows users to manage their tasks seamlessly, including features for adding, editing, deleting tasks, implementing task prioritization and status (completed or pending), and providing functionality for saving tasks locally using local storage.

Details: Design and Theme: Chose a minimalistic and clean design to ensure ease of use and focus on functionality.

Development Tools: Utilized HTML, CSS, and JavaScript for the implementation.

Functionality: Included features for task management and local storage to retain tasks between sessions.

### Steps Taken:

#### 1. Set Up the Project:

- Created a new project folder.
- Created necessary files: `index.html`, `style.css`, `script.js`.

#### 2. Structured the HTML:

- Outlined the HTML structure for the To-Do app, including input fields, task list, and action buttons.
- Ensured semantic HTML5 tags were used for better accessibility.

#### 3. Styled with CSS:

- Used CSS to style the app according to a minimalistic design theme.
- Ensured responsiveness using media queries and flexible layout techniques like flexbox.

- Applied a consistent color scheme and visually appealing layout.

#### 4. Added Interactivity with JavaScript:

- Implemented functionality to add, edit, and delete tasks.
- Included task prioritization and status updates (completed or pending).
- Provided local storage functionality to save tasks for future sessions.

#### 5. Tested for Functionality and Responsiveness:

- Tested the app on different devices and screen sizes.
- Adjusted the CSS to ensure the design looked good on all devices.
- Verified that all features worked as expected and that tasks were saved and retrieved correctly from local storage.

#### 6. Refined and Optimized:

- Ensured the code was clean and optimized.
- Used separate files for HTML, CSS, and JavaScript for better organization and maintainability.

#### Challenges Faced:

- Ensuring the To-Do app remained consistent and visually appealing across various screen sizes and devices.
- Managing the state of tasks (e.g., completed or pending) and synchronizing with local storage.
- Implementing an intuitive edit functionality for existing tasks.

#### Solutions Implemented:

- Utilized flexbox properties (flex-wrap, justify-content, align-items) to maintain a consistent layout.
- Used media queries to adjust the layout for smaller screens.
- Implemented local storage for persistent data saving.
- Enhanced user experience with clear visual feedback for task actions (e.g., strikethrough for completed tasks).

#### Learnings:

- Gained experience in creating functional web applications with task management features.
- Improved understanding of local storage for persistent data management.
- Enhanced problem-solving skills by addressing interactivity and state management issues.

#### Project Update:

- The To-Do App was successfully created with features to add, edit, delete, and prioritize tasks.
- The app includes local storage functionality to save tasks between sessions.
- The layout adjusts well across different devices, ensuring a consistent user experience.