

To-Do List Application Documentation

Overview

This To-Do List application is a simple, responsive web app designed to help users manage their daily tasks. It features multiple customizable themes, task creation, completion marking, and deletion functionality, with smooth animations and accessibility considerations.

Features

- **Add Tasks:** Users can add new to-do items via an input field.
 - **Mark as Completed:** Clicking on a task toggles its completion status, visually indicated by strikethrough text.
 - **Delete Tasks:** Each task includes a delete button to remove it from the list.
 - **Theme Switching:** Multiple themes (Default, Dark, Sunset, Cyberpunk) can be toggled dynamically.
 - **Responsive Design:** The layout adjusts for smaller screen sizes.
 - **Accessibility:** Keyboard focus styles and semantic HTML improve accessibility.
 - **Tooltips:** Hover or focus on elements shows helpful tooltips.
 - **Smooth Animations:** Entrance animation for the app and hover/focus transitions.
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Technologies Used

- **HTML5:** Semantic markup structure.
 - **CSS3:** Styling, theming, animations, and responsive design.
 - **JavaScript:** Application logic, event handling (not included here, but assumed).
 - **CSS Variables:** For theme management and easy color adjustments.
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CSS Design Breakdown

Theming

- **CSS Variables** defined in `:root` and overridden in theme classes like `.theme-dark`, `.theme-sunset`.
- Allows dynamic switching by changing the class on `<body>`.

Layout and Styling

- **#app Container:** Centrally positioned card with shadow and rounded corners.

- **Input and Buttons:** Full width, with accent color borders and backgrounds, smooth hover and focus transitions.
 - **Task List (ul and li):** Styled list with hover effects, completed state styling, and delete buttons.
 - **Animations:** slide In keyframe animates app container on load.
 - **Responsive:** Adjusts width and padding for small screens.
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File Structure

todo-list-mvc/

├── index.html

├── style.css

├── model/

| └── todoModel.js

├── view/

| └── todoView.js

└── controller/

└── todoController.js

Usage Instructions

Adding a Task

1. Type your task description into the input field.
2. Press Enter or click the "Add" button.
3. The task appears in the list below.

Marking Task as Completed

- Click on a task item to toggle its completed state.
- Completed tasks are displayed with a line-through and dimmed color.

Deleting a Task

- Click the red "X" delete button next to a task.
- The task is immediately removed from the list.

Switching Themes

- Click the theme toggle button at the top right corner.
 - The theme cycles through the available options, updating colors and backgrounds.
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Accessibility Features

- **Keyboard Navigation:** Focus outlines on inputs, buttons, and tasks for clear navigation.
 - **Tooltips:** Provide additional information on hover/focus.
 - **Color Contrast:** High contrast colors in dark and light themes for readability.
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Future Enhancements

- **Persistent Storage:** Save tasks locally using localStorage to retain data on reload.
 - **Task Editing:** Enable inline editing of existing tasks.
 - **Task Priorities and Deadlines:** Allow users to set priority levels or due dates.
 - **Drag and Drop Sorting:** Rearrange tasks by dragging.
 - **Animations on Delete:** Smooth fade-out when removing tasks.
 - **User Authentication:** Save tasks to user accounts for cloud sync.
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Credits

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