Day 9

Today, we applied our knowledge of HTML, CSS, and JavaScript to build a fully functional to-do list web application named Taskbuddy. This project focused on dynamic DOM manipulation, responsive layout structuring, and implementing custom user interaction features. It was a milestone that tied together much of what we've learned so far, demonstrating how front-end skills come together in a real-world use case.

Objectives Achieved:

- Designed a responsive and themed UI for task management.
- Created dynamic HTML elements using JavaScript.
- Learned how to structure a modular web application.
- Practiced event handling and DOM traversal.
- Implemented modal windows and dropdown menus.
- Applied accessibility and semantic HTML principles.

Key Features of "Taskbuddy":

Interface Design:

- Header Section: Displays current day and date dynamically.
- Dropdown Menu: Contains theme switcher and app information.
- Responsive Layout: Designed using CSS Flex/Grid and media queries.

Task Management:

- Task Input: Users can type and add tasks.
- Dynamic Task List: Tasks are appended to the DOM as list items.
- Visual Feedback: Smooth transitions and icons for user guidance.

Theming:

- Users can choose from seven different themes, each applying a unique hue via CSS custom properties.

HTML Structure Overview:

- <header>: Contains title, current date, and dropdown controls.

- <main>: Core app container holding the task interface.

- : Dynamic list of user-created tasks.

- <div class="app-info">: Modal component for displaying app metadata.

CSS Highlights:

- Custom CSS variables for dynamic theming.

- Responsive design with media queries.

- Card-style UI for input, task list, and modal.

- Smooth hover and focus transitions.

JavaScript Highlights (script.js):

- Event Listeners for:

  o Task addition on click/input

  o Toggling dropdown and modal

  o Changing theme dynamically

- Use of data-* attributes for clean DOM targeting.

- Built modular and readable JS architecture.

Summary:

Creating Taskbuddy helped solidify my understanding of how web technologies work together. It was exciting to build something interactive and visually pleasing. The addition of features like theming, modals, and a responsive layout pushed me to think like a front-end developer. This project truly marks a shift from practicing syntax to applying it creatively.