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Test Project

Module G - Team Project

Web Technologies

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Introduction

In this team project, you are grouped into a team of 3-5 Competitors. Your team is required to create a self-contained HTML Application.

A self-contained HTML Application means it is a complete web application that runs entirely in the browser without requiring a web server or external backend for its core functionality.

It does not rely on a remote server to store or process data for basic operation.

User data is stored locally. Here are some of the saving methods for reference. You may use one or more of the following methods and/or you may invent your own as well.

- By localstorage for temporary storing.
- A mechanism that allows users to copy data.
- File-based for permanent storing. Allow users to export their data as a JSON (or text) file and import/load it back later.
- URL-based data sharing. Compress the application state and encode it into the URL (usually in the hash), so the entire data can be carried simply by copying the link or generating a QR code.

The idea and purpose of one single HTML file is to maximise portability and simplicity. The entire application can be easily shared, transferred, and opened by simply double-clicking the file in any modern browser, without installation or setup. It can be opened directly as a local HTML file (or a small set of files) and works offline. Alternatively, a hosted version with data encoded in URL allows user to simply save a URL string that serves as the entry point of both the application and its data.

Idea selection

Teams may either:

- Choose one idea from the list below, or
- Propose their own original idea

Here are some ideas to get started

- Daily Journal/Calendar Notes
  A simple calendar where users can write notes for each day. Support local saving, JSON export, and the ability to share the current state via URL.
- Habit Tracker
  Users create personal habits and mark them as completed each day. Show current streaks and simple progress overview.
- Simple Expense Tracker
  Record income and expenses with categories. Display monthly totals and basic summaries.
- Markdown Notes
  A clean Markdown editor with live preview. Allow export and sharing of notes.
- Flashcard Study Tool
  Create digital flashcards with front and back sides. Include a simple review mode and progress tracking.
- Mood & Energy Tracker
  Log daily mood and energy levels. Visualise trends using simple charts or colour indicators.
- Reading List Manager
  Manage books or articles with statuses (Want to Read / Reading / Finished). Support ratings and short notes.
- Lightweight Kanban Board
  A visual task board with columns such as To Do, In Progress, and Done. Allow adding and moving cards.

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- Important Dates Countdown
  Add meaningful dates and display countdown timers together with personal notes.

Description of project and tasks

- There are three (3) deliverables. They are:
  - A functional self-contained web application that runs entirely in the browser. One file, containing all the needed HTML, CSS, and JavaScript. All needed graphics are included into this HTML file as well.
  - One-Page Marketing Page. This is also a single HTML containing all the necessary CSS, JavaScript, and media. The purpose is to keep at most two files for users to transfer.
  - Presentation by the team. After this module, there is presentation session for each team to present their work. It is 5 minutes per team. The presentation way is up to the team. It could also come with presentation files with no format restrictions. During the presentation, the team may not only show the work but also the behind-the-scenes. The team may also share how they come up with the final idea and what are the challenges in the process.

Instructions to the Competitor

- You need to commit your project to the git repository that you created on the submission platform. It is okay to commit to one team member's git repository.
- There is a centralized AI service to assist the development. Please refer to the AI service document for details.
- Please work on your competition workstation.
- The team may face challenges to collaborate by using the separated workstations, and this is part of the module.