



The University of the West Indies

Cave Hill Campus

Faculty of Science and Technology

Department of Computer Science, Mathematics and Physics

SWEN1005: Mobile Web Programming

Assignment One

Task Management App using HTML, CSS and JavaScript

INSTRUCTIONS

For this assignment, you are to create a responsive mobile web task management application. The app has two main screens.

Screen 1: Task List Screen

This screen serves as the task management screen, where users can view and manage their tasks. The screen should display calendar bars labelled with a date in the **January 1, 1900**, format, starting with the **current day** at the top followed by the next seven days. Choose an appropriate that ensures the mobile device screen can display the calendar easily. **[20 marks]**

Basic Behaviours

- When the user swipes up, they should see calendar bars for the next seven days. When the user swipes down, they should see calendar bars for the previous seven days. **[5 marks]**
- Using an accordion design, when the user taps once on a calendar bar it will open the task list for that day. Clicking on an open calendar bar will close it. Clicking on a calendar bar when another calendar bar is already open will

close the open bar and open the one that the user just clicked. That is, only one calendar bar can be open at a time. **[5 marks]**

- When a user clicks on a task in the task list, the task details are displayed in Screen 2. **[5 marks]**

Advanced Behaviours

- Implement a Search Bar that allows users to search for tasks by title. As the user types the query the results should be displayed as a list in a CSS pop-up window that appears under the search bar. Place an X in the pop-up window to close the pop-up window when the user clicks on it. **[10 marks]**
- The Search Bar should always be visible at the top, even when scrolling through the task list. **[5 marks]**

Screen 2: Task Details Screen

This screen displays details about the selected task, including: the task title, task description, start date, due date, priority level (1 – Critical, 2 – Urgent, 3 – High Priority, 4 – Medium Priority, 5 – Low Priority), status (pending, in-progress, completed), audio and video of the meeting where the task was set and a task document in PDF **[20 marks]**

Basic Behaviour

- Users can update the task title, due date, modify the priority level, change the task status, and upload a new PDF document. Both the Task Detail and Task List Screens must display the updated information. **[15 marks]**

Advanced Behaviours

- Swiping left or right on the screen should navigate to the next or previous task in the list respectively. **[10 marks]**
- Display a return button to Screen 1 (the Task List Screen) on this screen. **[5 marks]**

Graphical User Interface

Use HTML, CSS3, and JavaScript to create the application. The interface design should be:

- Clear
- Concise
- Familiar
- Responsive
- Consistent
- Attractive
- Efficient
- Forgiving

Take full advantage of what HTML, CSS, and JavaScript offer when creating your interface. Feel free to use W3 Schools, MDN, or other trusted websites for assistance; however, reusing a template, or reusing code generated by ChatGPT any other generative AI systems code may be plagiarism (review The University's policy on plagiarism [HERE](#)).

Submission

Your deadline for submission is **Wednesday, March 5, 2025**, on the eLearning system.

Upload a zip folder called **Assignment_One** containing the files for the app, including any images or assets used by the app. Ensure that the zipped file is under the allowable file size limit of the eLearning system.