# Part 2: Course Project Plan: Simple Task Tracker

# Product Goal

The goal of this project is to build a simple web-based Task Tracker that allows users to create, view, update, and delete their daily tasks. The application will help users stay organized by keeping track of their to-do items in one place.

User Stories

**User story 1 name:** *Add Task*

**User story 1 “As a…” format:** As a user, I want to add new tasks, so that I can remember what I need to do.

**User story 2 name:** *Edit Task*

**User story 2 “As a…” format:** As a user, I want to edit existing tasks, so that I can update task details when plans change.

**User story 3 name:** *Delete Task*

**User story 3 “As a…” format:** *As a user, I want to delete tasks, so that I can remove tasks that are no longer needed.*

**User story 4 name:** *Mark Complete*

**User story 4 “As a…” format:** *As a user, I want to mark tasks as complete, so that I can track my progress.*

**User story 5 name:** *View Task List*

**User story 5 “As a…” format:** *As a user, I want to see a list of all my tasks, so that I know what I need to do today.*

**User story 6 name:** *Search Tasks*

**User story 6 “As a…” format:** *As a user, I want to search my tasks by keywords, so that I can find specific tasks quickly.*

**User story 7 name:** *Sort Tasks*

**User story 7 “As a…” format:** *As a user, I want to set due dates for tasks, so that I can manage my time better.*

**User story 8 name:** *Set Due Dates*

**User story 8 “As a…” format:** *As a user, I want to sort my library of books, so that I can find specific books that match my needs.*

**User story 9 name:** *Login*

**User story 9 “As a…” format:** *As a user, I want to have a login option, so that I can access my tasks from any device.*

**User story 10 name:** *Logout*

**User story 10 “As a…” format:** *As a user, I want to logout of my account, so that my tasks remain private.*

## Quality attributes

**Quality attribute 1:** *Usability*

**Quality attribute 1 definition:** *Usability means how easy and intuitive the software is for users to learn and operate. A usable system helps users accomplish tasks quickly and correctly, with clear layouts and understandable actions.*

**Why quality attribute 1 is relevant to your project:** The app should have a simple, clean interface so users can add and manage tasks easily.

**Quality attribute 2:** Reliability

**Quality attribute 2 definition:** Reliability means the software consistently performs its intended functions without failure. A reliable system works correctly under normal conditions and keeps data safe and available.

**Why quality attribute 2 is relevant to your project:** Tasks should be saved correctly and always be available when the user logs in.

**Quality attribute 3:** *Performance*

**Quality attribute 3 definition:** *Performance means how fast and efficiently the system responds to user actions and processes data. Good performance ensures that the app does not lag, freeze, or delay when handling normal workloads.*

**Why quality attribute 3 is relevant to your project:** *Adding, editing, and searching tasks should happen quickly without delays.*

# Part 3: Sprint 1 Plan (for Milestone #1)

## Sprint goal

The goal for this sprint is to create a basic Task Tracker that lets users **add tasks**, **log in to save their tasks**, and **sort tasks by due date or priority** to help them stay organized.

Sprint User Stories

**First user story**

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| --- |
| (Front of index card)  *As a user, I want to add new tasks, so that I can remember what I need to do.As a user, I want to be able to use a books ISBN to locate a books information, so that I don’t have to manually input it.* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * Given a user is on the task list page, when they type in task details and click Add, then the new task appears in the task list immediately.   Quality attributes & Non-functional requirements   * Usability: The add task form should have clear input fields for task title and description. * Reliability: The new task should be saved and stay in the list even if the page is refreshed. |

**Second user story**

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| --- |
| (Front of index card)  ***Login:*** *As a user, I want to have a login option, so that I can access my saved tasks from any device.* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * Given a user is on the welcome/login page, when they enter their username and password and click Login, then they are taken to their personal task list page.   Quality attributes & Non-functional requirements   * Security: A user’s tasks should only be visible when logged in with the correct credentials. * Securability: Login should only succeed when the username and password match 100% of the time.   *.* |

**Third user story**

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| (Front of index card)  ***Sort Tasks:*** *As a user, I want to sort my tasks, so that I can easily find the most urgent or important tasks first.* |
| (Back of index card)  **Acceptance criteria**  Functional requirements   * Given a user is on the task list page, when they select a sort option (e.g., by due date or priority), then the task list should be reordered based on the selected option.   Quality attributes & Non-functional requirements   * Performance: The tasks should be sorted in less than 2 seconds when there are up to 50 tasks. * Responsiveness: The UI should update instantly after sorting**.** |