

## **Use Case UC1: Create Task**

**Primary Actor:** User

### **Stakeholders and Interests:**

**User:** Wants fast, clear task creation with options to set priority level, due date, tags, subtasks, and assign to an existing project.

**Preconditions:** None, it's a single-user system, no need for authentication.

### **Postconditions:**

- Task must have a user-defined title and priority level.
- Optional task data has been captured (description, due date, tags, subtasks, and associated project).
- Task status is set to "open".
- Task's creation date has been recorded.
- Task and all its related data has been stored in the system.

### **Main Success Scenario:**

1. User indicates to the system that they want to create a new task.
2. User enters a title for the task, an optional description, an optional due date, and sets a priority level (1-3).
3. System validates the entered information and presents the user with the option to assign tags or attach the task to an existing project.
4. System stores the information, sets the task's status to "open" and records the creation date.
5. System initializes the task's activity history and records the task creation in it.
6. System presents a confirmation summary of the newly created task and gives the option to add any subtasks (repeating step 2 & 4 for each subtask, skip step 3 as subtasks have no tags or associated projects).

## **Extensions & Alternative Flows:**

- If any invalid data is entered (wrong date format, priority level out of range, nonexistent project), the system informs the user and allows them to try again.
- If a task of the same title and due date already exists, the system notifies the user for a confirmation to prevent unintended duplicates.
- If the system is unable to create the task for any reason, it notifies the user and if necessary restarts the task creation process.
- If the user opts to add tags to the task, they're prompted for each tag separately until they indicate they're done. Tags do not need to be previously created.
- If the user opts to attach the task to a project, they're given a list of existing projects to select from.