**Use Case**: Create Task

**Primary Actor**: User

**Preconditions:**

The user is logged into the task management system.

**happy Flow:**

* The user navigates to the "Create Task" section of the task management system.
* The user writes a title of the task and description
* The user submits the task creation form.
* The system validates the entered information to ensure it meets the required criteria (e.g., no empty fields, valid due date format).
* If validation is successful, the system creates a new task
* The user is redirected to the task list, where the newly created task is now visible.

**Post conditions:**

* A new task is successfully created and added to the user's task list.

**Alternative Flows:**

If the validation of the entered information fails ,the system displays error messages indicating the specific issues, and the user is prompted to correct them before resubmitting the form.

**Use Case**: Login

**Primary Actor**: User

**happy Flow:**

* The user opens the task management system application.
* The user enters their valid credentials.
* The system verifies the entered credentials against the stored user data.

**Alternative Flows:**

If the entered credentials are invalid, the system displays an error message indicating that the login failed. The user may be prompted to re-enter their credentials or use a password recovery option.

**Post conditions:**

The user is successfully logged into the task management system and gains access to their personalized dashboard.

**Use Case**: Assign Task

**Primary Actor**: User (who assigns the task)

**Preconditions:**

The user is logged into the task management system.

**happy Flow:**

* The user navigates to the task list or details page.
* The user selects a specific task that needs to be assigned to another user.
* The system displays options for task actions, including "Assign" or a similar action.
* The user selects the "Assign" option.
* The user selects the intended assignee from the list or search results.
* The user confirms the assignment, and the system updates the task's information to reflect the new assignee.
* The system notifies both the user who assigned the task and the assigned user about the task assignment.

**Alternative Flow:**

If the user decides not to proceed with the assignment after selecting the "Assign" option, they can cancel the operation, and the system returns to the task details page without making any changes.

**Post conditions:**

The task is successfully assigned to the selected user, and the task details are updated to reflect the new assignee.

**Use Case**: Assign Task with Deadline

**Primary Actor**: User (who assigns the task)

**Preconditions:**

The user is logged into the task management system.

**happy Flow:**

* The user navigates to the task list or details page.
* The user selects a specific task that needs to be assigned to another user.
* The system displays options for task actions, including "Assign" or a similar action.
* The user selects the "Assign" option.
* The system presents a list of users or a search to find the user to whom the task it’s
* The user selects the intended assignee from the list or search results.
* The user sets a deadline for the task, either by selecting a date from a calendar or entering it manually.
* The system notifies both the user who assigned the task and the assigned user about the task assignment and deadline.

**Alternative Flow:**

If the user decides not to proceed with the assignment after selecting the "Assign" option (step 4), they can cancel the operation, and the system returns to the task details page without making any changes.

**Post conditions:**

The task is successfully assigned to the selected user with the specified deadline, and the task details are updated accordingly.

**Use Case:** Assign Task to Team Member with Deadline

**Primary Actor:** Team Lead or User with Team Management Permissions

**Preconditions:**

* The user is logged into the task management system.
* The user has team management permissions or is a team lead.

**happy Flow:**

* The user navigates to the team management or task list section.
* The user selects a specific task that needs to be assigned to a team member.
* The system displays options for task actions, including "Assign" or a similar action.
* The user selects the "Assign" option.
* The system presents a list of team members or a search functionality to find the team member to whom the task will be assigned.
* The user selects the intended team member from the list or search results.
* The user sets a deadline for the task, either by selecting a date from a calendar or entering it manually.

**Alternative Flow:**

If the user decides not to proceed with the assignment after selecting the "Assign" option (step 4), they can cancel the operation, and the system returns to the task details page without making any changes.

**Post conditions:**

The task is successfully assigned to the selected team member with the specified deadline, and the task details are updated accordingly.

**Use Case:** Show Tasks

**Primary Actor:** User

**Preconditions:**

The user is logged into the task management system.

**happy Flow:**

* The user navigates to the task dashboard or task list section.
* The system retrieves and displays a list of tasks associated with the user.
* The user can apply filters or sorting options to customize the view of the tasks based on criteria such as status, priority, or due date.
* The system presents the filtered or sorted list of tasks to the user.

**Alternative Flow:**

If the user wishes to view tasks assigned to a specific team or project, they may navigate to the corresponding team or project section and follow the same steps to view tasks within that context.

**Post conditions:**

The user can see a comprehensive and customized list of tasks based on their preferences and filters.