UseCase Document for Project Management System:

Use Case: Admin - Add Project
 Actors: Admin

Description:This use case allows the Admin to add a new project to the system.

Preconditions:
 - The Admin is logged into the project management system.
 - The Admin has the necessary permissions to add a project.

Basic Flow:
 1. The Admin selects the "Add Project" option from the system's menu.
 2. The system presents a form to enter the project details, including the project name, description, start date, and end date.
 3. The Admin fills in the required fields and submits the form.
 4. The system validates the entered information.
        - If any required field is missing or invalid, the system displays an error message and prompts the Admin to correct the information.
        - If all information is valid, the system creates a new project.
 5. The system updates the project list.
 6. The system displays a success message confirming the addition of the project.

Alternative Flows:
 - If the Admin cancels the project creation:
        - The system discards the entered information and returns to the main menu.
 - If the Admin encounters an error while adding the project:
        - The system displays an error message and prompts the Admin to retry or contact the system administrator.

Postconditions:
 - The new project is added to the system.
 - The project is available for assignment to users and management of tasks.

Use Case: Admin - Update Project
 Actors: Admin

Description: This use case allows the Admin to update the details of an existing project in the system.

Preconditions: - The Admin is logged into the project management system.
 - The Admin has the necessary permissions to update a project.
 - There is at least one project available in the system.

Basic Flow:
1. The Admin selects the "Update Project" option from the system's menu.
2. The system displays a list of existing projects.
3. The Admin selects the project to update from the list.
4. The system presents a form populated with the current project details.
5. The Admin modifies the necessary fields and submits the form.
6. The system validates the entered information.
    - If any required field is missing or invalid, the system displays an error message and prompts the Admin to correct the information.
    - If all information is valid, the system updates the project with the new details.
7. The system displays a success message confirming the update of the project.

Alternative Flows:
 - If the Admin cancels the project update:
    - The system discards the changes and returns to the main menu.
 - If the Admin encounters an error while updating the project:
    - The system displays an error message and prompts the Admin to retry or contact the system administrator.

Postconditions:
 - The project details are updated in the system.

Use Case: Admin - List Projects
 Actors: Admin

 Description: This use case allows the Admin to list all the projects in the system.

 Preconditions:
 - The Admin is logged into the project management system.
 - The Admin has the necessary permissions to list projects.
 - There is at least one project available in the system.

Basic Flow:
1. The Admin selects the "List Projects" option from the system's menu.
2. The system retrieves and displays a list of all the projects in the system.
3. The Admin can view the project details, such as project name, description, start date, and end date.

Alternative Flows:
 - If there are no projects available in the system:
    - The system displays a message indicating that there are no projects to list.

Postconditions:
 - The Admin can view the project list in the system.

Use Case: Admin-Delete Project

 Actors: Admin

Description: This use case allows the Admin to delete a project from the system.

 Preconditions:
 - The Admin is logged into the project management system.
 - The Admin has the necessary permissions to delete a project.
 - There is at least one project available in the system.

Basic Flow:
 1. The Admin selects the "Delete Project" option from the system's menu.
 2. The system displays a list of existing projects.
 3. The Admin selects the project to delete from the list.
 4. The system prompts the Admin for confirmation to delete the project.
 5. The Admin confirms the deletion.
 6. The system removes the project from the system.
 7. The system updates the project list to reflect the deletion.
 8. The system displays a success message confirming the deletion of the project.

Alternative Flows:
 - If the Admin cancels the project deletion:
        - The system returns to the main menu without deleting the project.
 - If the Admin encounters an error while deleting the project:
        - The system displays an error message and prompts the Admin to retry or contact
the system administrator.

Postconditions:
 - The project is removed from the system.

Use Case: User - View Assigned Tasks
 Actors: User

Description:
 This use case allows the User to view the tasks assigned to them.

 Preconditions:
 - The User is logged into the project management system.
 - The User has tasks assigned to them.

Basic Flow:
 1. The User selects the "View Assigned Tasks" option from the system's menu.
 2. The system retrieves and displays a list of tasks assigned to the User.
 3. The User can view the task details, such as task name, description, status, and due date.

Alternative Flows:
 - If there are no tasks assigned to the User:
        - The system displays a message indicating that there are no tasks to view.

Postconditions:
 - The User can see the tasks assigned to them.

Use Case: User - Search Task
 Actors: User

Description: This use case allows the User to search for specific tasks in the system

Preconditions:
 - The User is logged into the project management system.
 - There are tasks available in the system.

Basic Flow:
 1. The User selects the "Search Task" option from the system's menu.
 2. The system presents a search form to enter the search criteria, such as task name or keywords.
 3. The User fills in the search criteria and submits the form.
 4. The system performs a search based on the entered criteria.
 5. The system displays a list of tasks that match the search criteria.
 6. The User can view the task details for the selected task.

Alternative Flows:
 - If there are no tasks that match the search criteria:
        - The system displays a message indicating that no tasks were found.

Postconditions:
 - The User can search for tasks and view the search results.

Use Case: User - Update Task Status
 Actors: User

 Description: This use case allows the User to update the status of a task.

 Preconditions:
 - The User is logged into the project management system.
 - The User has tasks assigned to them.

Basic Flow:
 1. The User selects the "Update Task Status" option from the system's menu.
 2. The system retrieves and displays a list of tasks assigned to the User.
 3. The User selects the task to update from the list.
 4. The system presents a form populated with the current task details, including the status.
 5. The User modifies the task status and submits the form.
 6. The system validates the entered information.
        - If the entered status is not valid, the system displays an error message and prompts
the User to correct the information.
        - If the status is valid, the system updates the task with the new status.
 7. The system displays a success message confirming the update of the task status.

Alternative Flows:
 - If the User cancels the task status update:
        - The system discards the changes and returns to the main menu.
 - If the User encounters an error while updating the task status:
        - The system displays an error message and prompts the User to retry or contact the
system administrator.

Postconditions:
 - The task status is updated in the system.

Use Case: User - Add Comments to Task
 Actors: User

 Description: This use case allows the User to add comments to a task.

Preconditions:
 - The User is logged into the project management system.
 - The User has tasks assigned to them.

Basic Flow:
 1. The User selects the "Add Comments to Task" option from the system's menu.
 2. The system retrieves and displays a list of tasks assigned to the User.
 3. The User selects the task to add comments to from the list.
 4. The system presents a form populated with the selected task details.
 5. The User enters the comments in the provided comment field and submits the form.
 6. The system validates the entered comments.
        - If the comments are not valid, the system displays an error message and prompts
the User to correct the information.
        - If the comments are valid, the system adds the comments to the task.
 7. The system displays a success message confirming the addition of the comments.

Alternative Flows:
 - If the User cancels adding comments to the task:
        - The system discards the entered information and returns to the main menu.
 - If the User encounters an error while adding comments:
        - The system displays an error message and prompts the User to retry or contact the
system administrator.

Postconditions:
 - The comments are added to the selected task in the system.