

# Requirements Document & Use Case Diagram

## Requirements Document

### Rationale

As a student, managing daily tasks such as assignments, projects, exams, and campus-engaged activities can be overwhelming, which may result in poor time management, deadline missing, poor grades, and stress. Therefore, it is necessary to have a task management system that can help students manage their tasks as well as balance their time/schedule.

### Description of system

The task management system will allow users to create, track, manage, and view their tasks easily. The system should have a user-friendly interface that allows users to create, track, categorize, and set deadlines, priorities, as well as reminders for their tasks.

### Functional Requirements

1. Task creation: Users can create tasks by entering tasks details such as task name, description, priority, and deadlines.
2. Task updating: Users can update progress/ status of their tasks or delete a task
3. Task tracking: Users can view all their tasks by category like academic with sub-heading such as courses name or non-academic tasks, as well as the progress of their tasks and view the status of tasks if they are progressed, completed or not.
4. Task prioritization: Users can set the priority of their tasks based on workload, importance, or urgency.
5. Task reminder: Users can set reminders for their tasks to ensure that they do not miss their deadlines.
6. Task Categorization: Users can categorize their tasks as academic or non-academic. If it is an academic task, users have to provide the course name of that task.

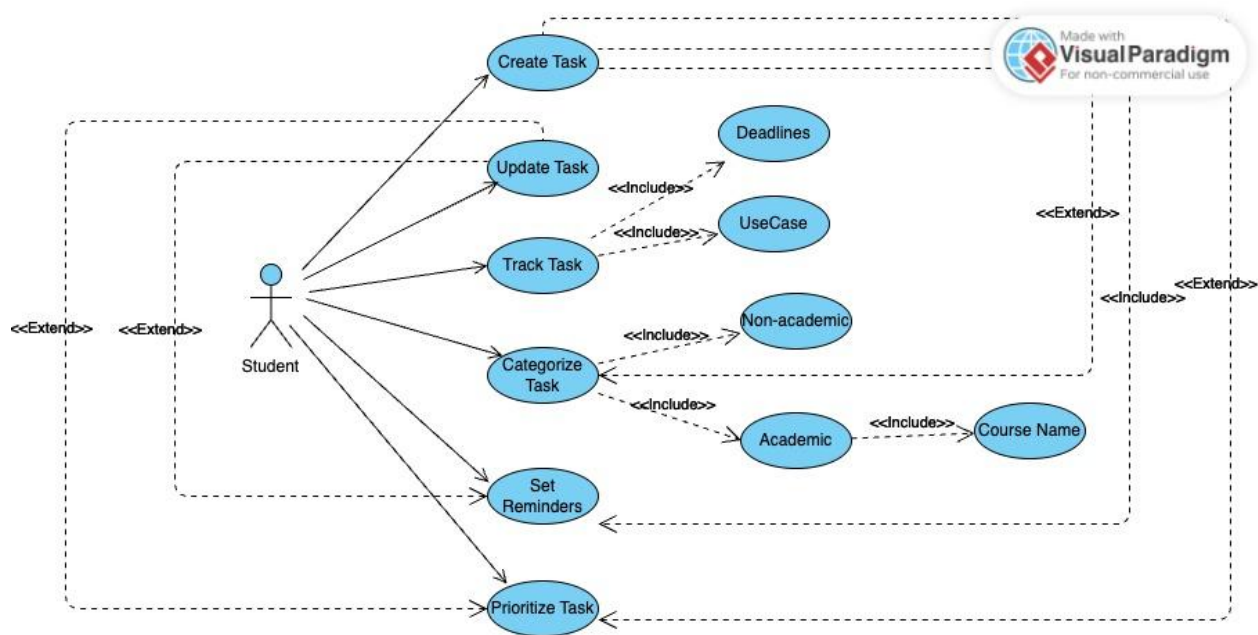
### Non-functional requirements

1. The system should have a user-friendly interface which is easy to use and navigate.
2. The interface should be intuitive, visually appealing, and provide clear and concise instructions to users.

3. The system should respond quickly to user input and load tasks efficiently even with a large number of tasks without any delays.

## Use Case Diagram and Description

### Use Case Diagram



### Description

1. Create Task: When a student (as a user) creates a new task, he/she needs to provide task details such as name, descriptions, deadlines. Categorizing and setting priority of tasks are optional, so they are Extends.
2. Update Task: Users can update name, description, deadline, progress or status of tasks. Setting reminders and priority of tasks are optional, so they are Extends.
3. Track Task: Users can view all their tasks by deadlines or categories as well as the progress and status of their tasks.
4. Categorize Task: Users can categorize their tasks as academic or non-academic.
5. Set Reminders: Users have to set reminders when creating a new task so they will not miss any of them. Reminders can be manually changed or automatically changed due to the deadline when users update tasks.
6. Prioritize Task: Users can prioritize tasks based on their workload, importance, or urgency.