

# Project Specification for Group #119

Team Name: SarahLegend

Domain:

Task and Project Management

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## Software Specification:

The To-Do List application allows users to create, manage, and organize their tasks efficiently. The program provides functionality to add, update, and delete tasks, as well as to set deadlines and prioritize tasks based on urgency or importance. Users can categorize tasks into projects or folders, view their daily, weekly, and monthly schedules, and mark tasks as complete once finished. The app may also send reminders to users about upcoming deadlines.

## User Stories:

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1. **Samsam has multiple tasks to manage for a project.** They open the To-Do List app, create a new project folder, and add individual tasks with titles, descriptions, and due dates. [team story]
2. **Abinash is overwhelmed by tasks and needs to organize them by priority.** They open the To-Do List app, set high, medium, or low priority for each task, and see priority indicators in the app.
3. **Safeer doesn't want to miss important deadlines for their tasks.** They enable reminders for specific tasks, and the app sends notifications as deadlines approach.
4. **Sarah completes a few tasks and wants to keep their list organized.** They mark completed tasks as done, which moves them to a completed section where they can archive or delete them.

5. **Aryan wants to see an overview of their upcoming week's tasks.** They open the schedule view in the To-Do List app, displaying tasks by day, helping them plan their workload for the week.

## Proposed Entities for the Domain:

- **Task**
  - String title
  - String description
  - Date dueDate
  - int priority (1 for high, 2 for medium, 3 for low)
  - boolean isCompleted
- **Project**
  - String name
  - List<Task> tasks
- **Reminder**
  - Task task
  - Date reminderTime
  - boolean isNotified
- **ScheduleView**
  - List<Task> dailyTasks
  - List<Task> weeklyTasks
  - List<Task> monthlyTasks

## Proposed API for the project:

<https://developer.todoist.com/>

- **Description:** The Todoist API enables integration with the Todoist task management system, allowing tasks to be created, updated, and tracked.
- **Use Cases:**
  - Sync tasks with Todoist for users who use both the To-Do List app and Todoist.
  - Allow users to organize tasks into projects and sub-tasks within Todoist and reflect those changes in the To-Do List app.

## Scheduled Meeting Times + Mode of Communication:

Meeting time outside of lab: **Meet in the weekends(online)**

Mode of Communication: google meet