

Thank you for taking up this challenge. Good Luck!

You are expected submit system design and working code for the given problem statement below.

- You can choose programming language of your choice.
- You can have suitable assumptions and ask clarification questions.
- You can share solution by email with attached solution or attached source control link

REQUIREMENTS FOR TASK MANAGEMENT

Please design and develop a task management system given the below requirements:

Task Lifecycle

Creation of a task, Assigning the task, Processing(editing), Completed/Deleted.

A Simple Task Scheduler

A common platform with multiple users, where any user can assign or schedule the task for themselves or to other users.

Key use cases

- Signup
 - User will be able to create their account.
 - Sign up page will have 4 mandatory fields Name, Email, password and confirm password.
 - For security reason Captcha is required.
 - If user have account already it will redirect to login page.
- Login
 - User can log in to the Home page using their credentials used during Signup.
 - If someone forgets password can reset, it through the same page.
- Create and join group
 - User can join group or add other users by invite link.
- Creation of a task
 - A task should contain title of a task, creator, assignee, due date and priority.
 - One can create a task for themselves in the personal space.
- Assigning the task
 - One can assign a task to any other user or to themselves.
- Editing the task
 - Only creator can edit title, assigned to, due date, description, priority.
 - Assignee can change the status.
- Notification
 - Whenever creator creates a task, assignee will receive a notification stating that a task is assigned to him/ her.
 - Whenever the assignee has submitted the completed task, the creator will get the notification stating that the assignee has submitted the task.
- Attachments
 - Assignee can add and only assignee can delete attachments.