



Universidad de las Fuerzas Armadas ESPE

Object Oriented Programming

NRC: 14575

Homework #4

Topic: Definition of the project

Teacher: Edison Lascano

Student: Antonio Revilla

Problem

We are confronted with the challenge of developing a comprehensive **task management system**, akin to **Asana**, designed to efficiently organize and oversee **users tasks**. The system must not only track and categorize various **types of tasks** but also provide timely **reminders** for upcoming **assignments**. Additionally, the **application** should generate automated **daily messages** to keep **users** informed about their **daily agenda**. Furthermore, to enhance **collaboration** and **communication**, the system needs to integrate seamlessly with **Slack**. The **app** will have a **dashboard** with different relevant services such as a **calendar** with **tasks**, a **goals view** to review how well you are doing, **reportings** with stats and graphs, etc. Also in the future there will be an **organization mode**, where **organization** can create **projects** with many users connected on the same project with different **roles** such as **task manager**, **developer**, **organization leader**, etc.

Overview

In the domain of task management and **productivity**, users often turn to task **management applications** to streamline their **workflow** and enhance **efficiency**. **Individuals**, **teams** and **organizations** use these tools to **organize** tasks, set **priorities** and **collaborate** effectively. Understanding the importance of users having insights into their task history, upcoming tasks, and overall productivity, the proposed app aims towards a **transparent** and insightful overview. By offering a comprehensive view of tasks, the **system** empowers users to make informed decisions, **prioritize tasks effectively** and optimize their **workflow** for increased productivity.

Background

In the context of task management and productivity, envision each task as a **fundamental unit** contributing to an individual's or team's workflow. Specially on the software development ambit the importance of handling tasks efficiently is crucial, usually teams depend on an app or system to handle all their workload, just for reference this a graph that presents how many organizations are paying for premium **ASANA** which will be our main inspiration for this **project**.



For effective task management, users face challenges related to tracking the progress of task, associating completed task with specific projects or phases, and assessing the overall efficiency of task completion. Therefore, the proposed app aims to provide a structured and comprehensive history of users` tasks, enabling them to gain insights into their task management practices. Each task will be stored with relevant details including task type, creation date, due date, task completion status, and any associated factors.

We will try to integrate our app with Slack and Asana so that future clients don't have to stop using tools that they already familiar with, also for the creation of the daily message (usually software development companies use agile methodologies that require developers to create daily messages to inform their daily status) we will use the GPT API to make the message clear and customizable.

Integration with APIs

Since the team knowledge is not advanced, the integration with Asana, Slack and GPT-Chat APIs will be the final task, the main focus will be the creation of a functional task management system, automated reminders, notifications and daily messages as well as many other features that don't involve API integration, with that being said, after the creation of the system we'll focus all our efforts on the integrations that we talked about.