IUT OF COLMAR

SAE 5.02 PILOTER UN PROJET INFORMATIQUE

YEAR 2023-24

Tasko - Report on Our Project

MARTIN BAUMGAERTNER - MIKHAÏL KARAPETYAN
LOUIS PLUVIOSE - NICOLAS WAGNER
THOMAS STRUB - VICTOR UETTWILLER

26 décembre 2023

Table des matières

Martin Baumgaertner – Mikhaïl Karapetyan – Louis Pluviose – Nicolas Wagner 1
– Thomas Strub – Victor Uettwiller

1 Introduction

In today's fast-paced and collaborative work environments, effective task management is paramount to productivity and project success. "Tasko," a robust and user-friendly task management application, has been developed by a dedicated team of six talented individuals to meet the growing demands of modern task management. This report provides an in-depth analysis of Tasko, it's key features, and how it empowers users to effortlessly manage their tasks and projects. From task creation and assignment to online data backup and Docker deployment, Tasko offers a comprehensive solution for individuals and teams striving to enhance productivity and streamline collaboration. This report will delve into the core functionalities of Tasko, shedding light on its potential to revolutionize the way we organize, track, and accomplish our tasks.

1.1 Features

Tasko offers a comprehensive set of features designed to streamline task and subtask management while enhancing collaboration and productivity. Users can effortlessly create, organize, and track tasks and subtasks to simplify even the most complex projects. Task assignment capabilities promote effective teamwork and accountability, making it easy to delegate responsibilities. Online backup options, including Git repositories and web servers, ensure that your data remains secure and accessible, providing peace of mind. Deadlines and due dates can be set to efficiently manage tasks and meet project goals, while the prioritization feature enables users to focus on what matters most and stay on top of their workloads. Customizable labels allow for quick task categorization and easy identification. Furthermore, Docker deployment simplifies Tasko setup, providing a hassle-free and consistent environment for users.

2 Organization

Swiftly, the need for effective organization became evident as we embarked on the journey of creating our project. It was at this point that I stepped forward to take on the role of Product Owner. My fellow team members graciously accepted my offer, recognizing my diplomatic nature and strong communication skills as valuable assets for this role. Subsequently, Thomas expressed his eagerness to assume the position of Scrum Master. With these key roles defined, we proceeded to divide the project into several distinct parts. These segments encompassed the backend and database development, frontend design, Docker/container implementation, documentation, and the creation of web HTML elements. Thomas, along with Mikhail and Nicolas, took charge of the web HTML/frontend portion, while Louis spearheaded the backend and database aspects. Victor assumed responsibility for the infrastructure related to Docker containers, while I adopted a versatile role, lending assistance wherever needed and primarily focusing on documentation. The allocation of these roles was carefully considered by the group members to foster harmonious collaboration and to prevent disagreement.

3 Difficulties Encountered

One of the major challenges we encountered during our SAE project was related to organizational issues. These issues resulted in delays across various phases of the project. The difficulties stemmed primarily from a cascading effect, where one task's completion was dependent on another. For instance, the deployment phase couldn't proceed until both the backend and frontend development were completed. Similarly, the documentation process was also affected because it relied on the completion of the software components. This interdependency between project tasks had a significant impact on our timeline. Delays in one area had a domino effect, causing subsequent tasks to be pushed back as well. It became evident that effective project management and coordination were essential to mitigate these challenges. The difficulties we encountered primarily revolved around organizational issues and the interconnected nature of project tasks. Addressing these challenges required a concerted effort to streamline our workflow, prioritize tasks, and enhance communication and coordination among team members. These experiences have provided valuable insights into project planning and execution, which will be beneficial for future endeavors.

4 Conclusion

This project has been a valuable learning experience that has allowed us to develop essential skills in organization, problem-solving, and project management. One of the significant advantages of tackling a project with a relatively broad scope was the opportunity to oversee every aspect of the project from inception to completion. Managing a project from start to finish has enabled us to gain a comprehensive understanding of the challenges involved in software development, from initial planning and design to coding, testing, and deployment. It has also fostered a sense of autonomy and self-reliance, encouraging us to think critically and solve problems as they arise. However, it's worth noting that the size of our groups, consisting of six members, presented its own set of challenges. While collaboration is an essential aspect of teamwork, having a larger group often led to inefficiencies in the distribution of tasks. Not all team members could actively contribute to every aspect of the project due to its size. In retrospect, smaller groups of three to four members might have facilitated a more equitable distribution of responsibilities, aligning better with the project's goal of involving everyone in all project tasks. Moreover, despite the challenges, this project has significantly enriched our skills, knowledge, and experience in software development and project management. It has prepared us to tackle more complex projects in the future and has taught us the importance of effective teamwork, communication, and adaptability in the face of challenges.