

Name of the Project: Taskflow

Introduction:

TaskFlow is aiming to become a project management website designed to address the unique challenges faced by university-level projects. University life often involves a combination of academic responsibilities, extracurricular activities, and personal commitments. A task management system helps students allocate time effectively and maintain a balance and keep a track on their progress of the project. This platform facilitates collaboration by providing a centralized hub for task assignment, progress tracking, and communication among group members. With the target of providing a user-friendly platform, TaskFlow seeks to revolutionize how students, team leaders, developers, and course teachers collaborate, organize, and manage projects effectively.

Overall Architecture:

The overall architecture involves defining the high-level structure of a system. It includes understanding stakeholder needs, specifying system components, and designing the system to meet both functional and non-functional requirements. System architecture provides a blueprint for designing, building, and maintaining a software system. The overall system architecture of Taskflow is given below:

figure

Here the following occurs in brief:

A system for verifying the identity of both students and teachers will be implemented. Teachers undergo a verification process. A team leader has the capability to establish a project space, providing a description and a unique identifier for the room. The team leader can then allocate tasks to team members. Team members are empowered to upload files, and a contribution chart is available to track their contributions. Teachers possess the authority to set project deadlines and provide feedback to project members.

Refined Architecture:

Refined architecture typically refers to an enhanced and detailed version of a system or software architecture. It involves a more in-depth specification of components, modules, interfaces, and their interactions based on further analysis and design considerations. This refined architecture serves as a blueprint for implementing the system, providing a more granular view of how different parts of the system will work together. The process of refining the architecture often occurs as the project progresses and more detailed information becomes available.

Conclusion: Taskflow encompasses a comprehensive architecture designed to facilitate efficient collaboration and task management. The system begins with a robust user authentication process, ensuring the secure participation of both students and teachers. The refined architecture delves into the intricacies of the system, detailing the creation of project spaces by team leaders, task allocation, file uploading capabilities for team members, and the integration of a contribution chart for effective progress tracking. The dynamic features provided by this system empower team leaders to lead projects seamlessly, while teachers exercise control over project deadlines and contribute valuable feedback to project members. This holistic approach to task tracking establishes a structured and user-friendly environment, enhancing productivity and fostering effective communication within the academic setting.