# Team 22 Project Charter
## Planorama

**Team Members:**

Sruthi Bhamidipati, Yana Sheoran, Vihaan Khajanchi, Jack Kenny, Sejun Her

**Project Title:**

Planorama: Task Management and Insightful Productivity Tracking

**Problem Statement:**

Many productivity tools lack a balance between simplicity and functionality, leaving users overwhelmed by complexity or under-equipped to effectively manage tasks, goals, and time due to limited features. There's a need for a unified, intuitive platform that integrates task management, time tracking, goal setting, and actionable insights into one seamless experience. Unlike existing tools, like Trello, Notion, or Google Calendar, which focus either on task management, content organization, or individual scheduling, Planorama will combine these functionalities with dynamic insights, gamification, and collaboration features, creating a personalized, engaging, and team-oriented approach to productivity enhancement. The app's intuitive interface, coupled with in-depth analytics and actionable recommendations, allow for it to serve as a robust tool, setting it apart from traditional planners that often feel static or overly rigid.

**Project Objectives:**

1. Develop a comprehensive task management system that allows users to create, edit, delete, organize, and prioritize tasks, using categories, deadlines, and a user-friendly interface.
2. Build goal-setting and progress-tracking features that enable users to add short-term and long-term goals, break them into actionable steps, and monitor progress.
3. Implement a time-tracking module that logs time spent on tasks, generates reports, and highlights trends to optimize productivity.
4. Incorporate gamification and collaboration tools, where users earn badges and streaks for task completion, while encouraging teamwork and engagement with features like productivity leaderboards, shared tasks, and collaborative goal-tracking.
5. Integrate personalized insights to provide tailored task prioritization, time optimization strategies, and dynamic productivity scores, helping users refine their productivity strategies.

**Stakeholders:**

Users: Individuals or teams looking to manage tasks, set goals, and track productivity for personal, academic, or professional purposes

Developers: Sruthi Bhamidipati, Yana Sheoran, Vihaan Khajanchi, Jack Kenny, Sejun Her

Project Manager: Krishna Dhasmana

Project Owners: Sruthi Bhamidipati, Yana Sheoran, Vihaan Khajanchi, Jack Kenny, Sejun Her

**Project Deliverables:**

- A React- or Angular-based frontend web interface for managing tasks, goals, and progress, with drag-and-drop functionality for task reordering and mobile app compatibility
- A time-tracking system to log time spent on tasks and generate reports on productivity trends, with visualizations of task completion rates and productivity peaks using tools like Tableau or D3.js
- Python- or Node.js-based backend to handle task data, progress tracking, and notifications with RESTful or GraphQL APIs, and database setup using PostgreSQL and MongoDB for user data, tasks, and insights
- AI-powered insights for task prioritization and time optimization using TensorFlow or PyTorch.