Various Users

Identifying Various Types of Users

Primary Users

- **Students**: The main users of the system who will interact directly with the platform to submit projects, receive feedback, and track their progress. They benefit from the system's features, such as GitHub integration and AI-based feedback.

Secondary Users

- **Instructors**: Instructors manage student projects, create milestones, review progress, and provide feedback. They use the platform to track student activity and help students improve their work through timely guidance.
- **Teaching Assistants (TAs)**: Assist instructors by reviewing student work, providing feedback, and helping manage project milestones.
- **Course Administrators**: Manage the system, ensuring smooth operations and up-to-date project settings for students and instructors.

Tertiary Users

- **Technical Support and Development Team**: Responsible for maintaining the platform, ensuring it operates efficiently, and integrating any updates or fixes.
- **Educational Researchers**: They might analyze student data and system feedback to study the effectiveness of the project tracking system in enhancing learning outcomes.

User Stories

Primary Users: Students

1. **As a student**,
   I want to receive feedback on my project submissions based on my GitHub commits,
   So that I can understand my progress and make improvements accordingly.
2. **As a student**,
   I want to link my GitHub commits to project milestones,
   So that I can easily track my work and meet project deadlines.
3. **As a student**,
   I want to upload and submit project documentation,
   So that I can receive AI-based feedback before the final submission.

Secondary Users: Instructors

1. **As an instructor,**
   I want to create and manage project milestones for my students,
   So that I can track their progress and ensure they meet important deadlines.
2. **As an instructor,**
   I want to review detailed feedback from the AI analysis on students' project documentation,
   So that I can identify common mistakes and adjust my teaching accordingly.
3. **As an instructor,**
   I want to monitor student coding activity via GitHub commits,
   So that I can assess individual student contributions and provide guidance as needed.

Secondary Users: Teaching Assistants (TAs)

1. **As a teaching assistant,**
   I want to review and provide feedback on student project milestones,
   So that I can assist the instructor in ensuring students stay on track.
2. **As a teaching assistant,**
   I want to access students' coding activity and document submissions,
   So that I can provide detailed and helpful feedback to improve their work.

Secondary Users: Course Administrators

1. **As a course administrator,**
   I want to manage user accounts and project settings,
   So that the platform remains up-to-date and accessible to all users.
2. **As a course administrator,**
   I want to track system performance and user engagement,
   So that I can identify any technical issues and ensure a smooth user experience.

Tertiary Users: Technical Support and Development Team

1. **As a technical support team member,**
   I want to ensure the system's GitHub and AI integration features are functioning correctly,
   So that students and instructors can rely on the platform without interruptions.
2. **As a development team member,**
   I want to refine and update the AI models for document analysis,
   So that the feedback provided to students is accurate and helpful.

Tertiary Users: Educational Researchers

1. **As an educational researcher,**
   I want to analyze data generated by the system regarding student learning outcomes,

So that I can study the effectiveness of project-based learning and propose improvements.