

TEAM 3 PROJECT PROPOSAL

We propose an AI-powered testing service application that helps educators assess students through a critical thinking model. The AI guides students through test questions and prompts them to think critically when they answer incorrectly, offering multiple attempts as set by the instructor. The app shifts the focus from rote memorization to problem-solving. It uses adaptive feedback to foster deeper understanding and promote meaningful learning outcomes.

Why This Information Service is Needed

Traditional testing often focuses on recall, which doesn't foster critical thinking. Our service encourages students to think critically and refine their answers through feedback, promoting skills aligned with modern educational needs. This dynamic approach is intended to improve learning outcomes.

Specific Setting

This service is designed for schools, universities, and online learning platforms to benefit diverse learning environments. It emphasizes experiential learning in an online setting.

Expected Functions and Utilities

1. **Multiple Attempts:** Students can refine answers over multiple attempts.
2. **Adaptive Feedback:** AI provides personalized guidance for deeper engagement.
3. **Assessment Dashboard:** Teachers track progress and performance.
4. **Customization:** Teachers can adjust difficulty levels and question types.
5. **Analytics:** Insights on student performance to guide personalized learning.

Team Work Plan

1. **William/Takyi (Developers):** Ensure a working prototype that allows the user to complete an examination with an AI model that prompts critical thinking (i.e. through the use of an API). Provide recording after the development of the prototype is complete to demonstrate its functionality.
2. **Takyi/William (Information Architects; Data Specialists):** Design and document the information architecture and user flows; Create documentation about how information is collected, processed, and analyzed.
3. **Twinkle/Aravind (Wireframe Developers; UI/UX Designers):** Design and provide documentation about the user interface and ensure a responsive experience. Create and document wireframes to structure the system layout.
4. **Rashida (Presentation Creator):** Assemble the video presentation.
5. **Sid (Narrator/Documentation):** Record the narration for the presentation, and compile and organize documentation for GitHub Manager.
6. **Maleah (Data Privacy; GitHub Manager):** Ensure our deliverables comply with data privacy regulations. Organize and maintain the GitHub repository.
7. **Rashida (Project Manager):** Coordinate tasks, manage timelines, and ensure the project stays on track.