

E-Learning App Documentation

E-Learning App is an AI-powered mobile application designed to assist users in generating e-learning materials using LangChain. This application provides tools for creating quizzes, summaries, and study resources, making it a valuable asset for students, educators, and professionals.

Key Features:

1. AI-Generated Study Materials: Automatically create study guides, notes, and learning resources.
2. Quiz Generator: Generate multiple-choice, true/false, and fill-in-the-blank questions.
3. Summarization Tool: Extract key points and summaries from large texts.
4. Interactive Learning Modules: AI-powered chat assistant for Q&A.
5. Multimodal Support: Accepts text, images, and speech inputs.
6. Progress Tracking: Monitors quiz performance and study habits.

Team Members:

1. Aaron Sonnie: Backend Developer - Develops LangChain pipelines, AI-driven quiz and summary generation.
2. Sona Daison: Frontend Developer - Designs and implements the UI, ensures responsiveness.
3. Karivaradhan (Team Lead): Defines architecture, integration, testing, and deployment.
4. Singapuram Thrithwik: Database Manager - Manages database and data retrieval optimization.

Technical Details:

The application is built using modern web and mobile development frameworks and leverages LangChain for natural language processing. Key technologies include:

- Frontend: React.js or Flutter (depending on deployment choice).
- Backend: Python with LangChain for AI functionality.
- Database: PostgreSQL/Firebase for content storage and authentication.
- Deployment: AWS, Firebase, or Heroku.

Design Reference:

For a visual representation of the project, refer to the Figma design:

<https://www.figma.com/design/wIWMU6flxohNGDB3ABPZsE>