

Edusync

Supplementary file

MINDWEAVE is a comprehensive, AI-powered learning companion designed to optimise the educational experience through intelligent content management, adaptive learning, and personalised study tools. A key enhancement in this project is the **Quiz Craft module**, an intelligent assessment feature that automatically generates quizzes from study materials. This allows learners to actively test their knowledge, monitor their progress, and identify areas requiring further improvement.

Additional Features-

MindMapGenie (featuring QuizCraft)

- Enhances visual learning by generating interactive mind maps directly from study content.
- **QuizCraft** functionality reinforces learning via targeted quizzes and provides performance analytics for continuous improvement.

Documentation Used-

Backend Development

- **Python**: Official Python Documentation
- **FastAPI**: Official FastAPI Documentation

API-

Grok API for useful resources

Frontend Development

- **React.js:** Official React Documentation
- **HTML (HyperText Markup Language):** ☐ MDN HTML Documentation
- ☐ **CSS: Official CSS Documentation** – MDN CSS Documentation
- ☐ **JavaScript: Official JavaScript Documentation** – MDN JavaScript Documentation

Core Algorithms

- *A (A-Star) Search Algorithm**: Wikipedia Article on A* Search