

“EduMind”

‘AI Powered Adaptive Study Assistant’

Team Members

B.Hemanth	24KD1A1512
K. Thanuja	24KD1A1533
P.Deepesh	24KD1A1551
B.Murali Sai	24KD1A1510



Team No: 10
Mentor Name: S.Neeraja

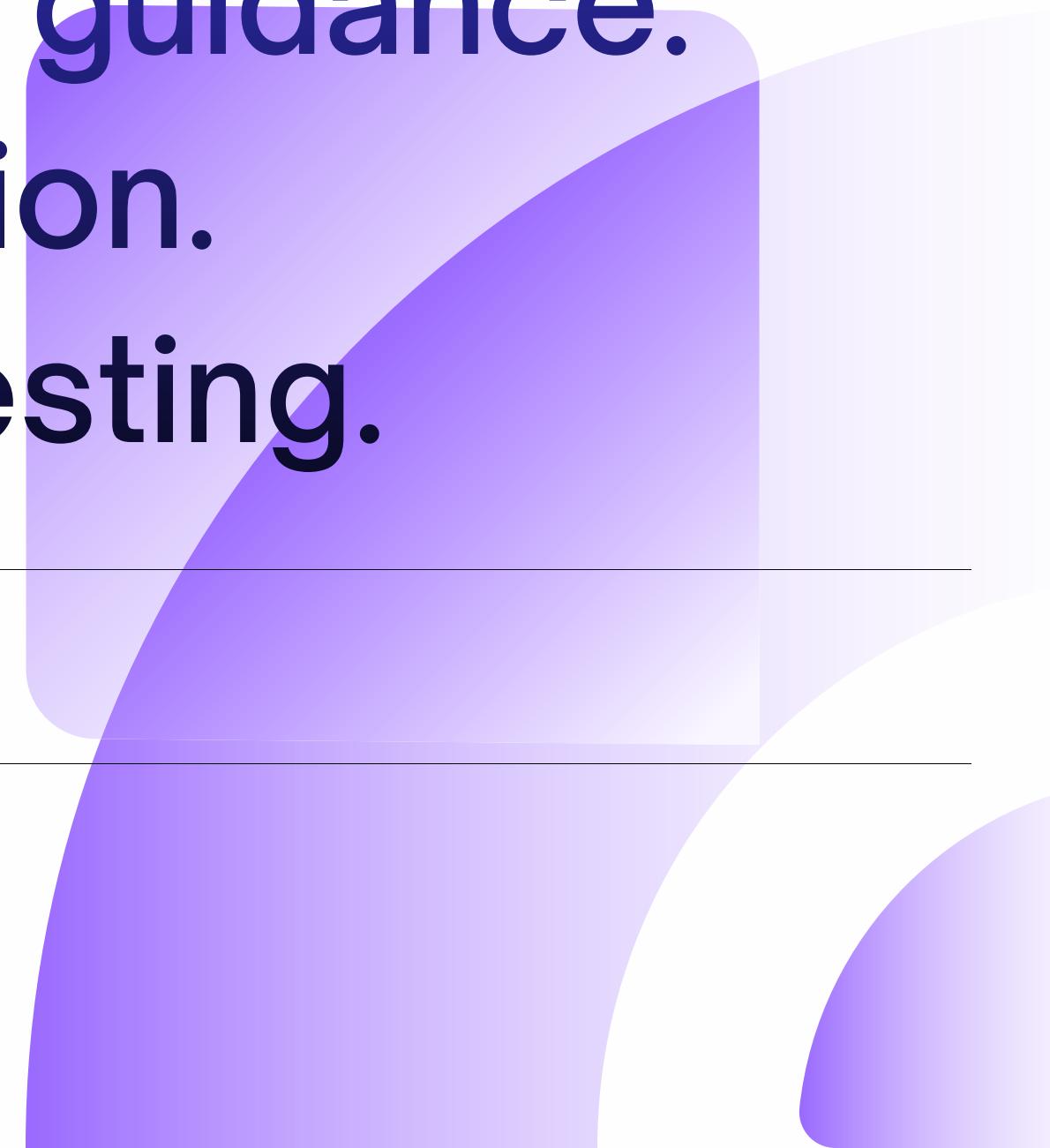
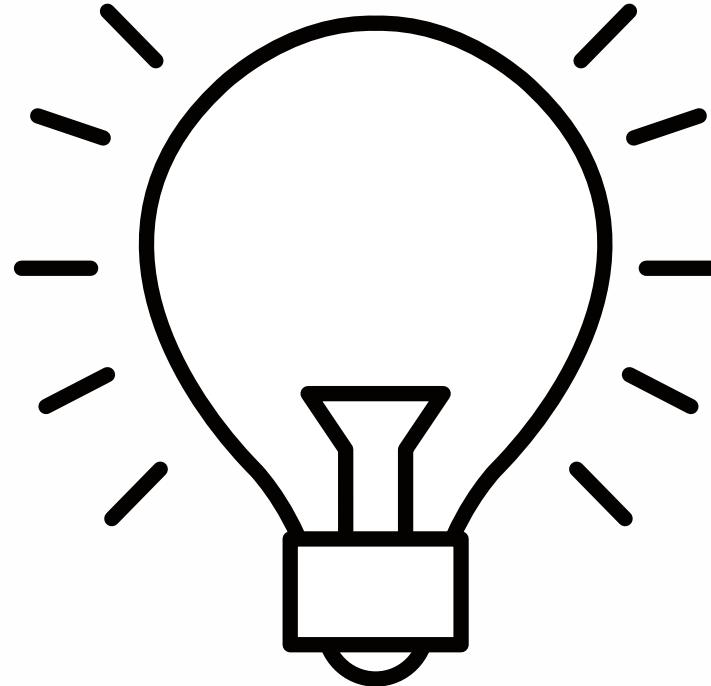
Abstract :

1. A comprehensive full-stack web platform powered by AI.
2. Offers personalized study assistance tailored to individual needs.
3. Developed with a React frontend and a FastAPI backend.
4. Employs an adaptive learning approach to optimize educational outcomes.
5. Enhances learning efficiency and facilitates effective revision.



Purpose of the Project :

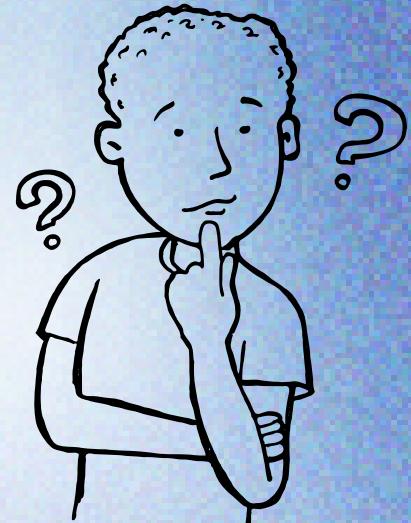
- Help students study smarter.
- Provide personalized learning guidance.
- Reduce confusion in preparation.
- Use AI for explanations and testing.
- Improve learning efficiency.



Problem Statement

- : Current Challenge : -

- Many students feel uncertain about their next study topics, overwhelmed by the sheer volume of material and unsure where to focus, which hinders academic progress.
- There's a noticeable lack of personalized feedback in education. Without tailored advice, students struggle to identify their strengths and weaknesses, making improvement difficult.
- Learning resources often remain static, failing to adapt to students' evolving needs, resulting in outdated and disengaging materials.
- Revision planning is often inadequate, with students unsure how to organize their time and resources, leading to last-minute cramming and stress.
- Chatbots provide answers to specific questions but generally don't offer comprehensive learning guidance, missing out on an interactive learning experience.



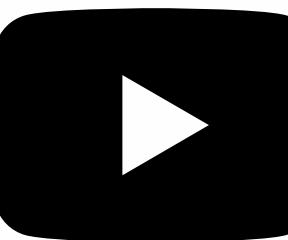
Existing Systems & Limitations

Existing System :

- Google Search.
- YouTube Tutorials.
- Learning Management Systems (LMS).
- AI Chatbots (ChatGPT).

Limitations :

- Only provide information
- Passive learning
- No structured workflow
- No personalized study plan
- No adaptive feedback



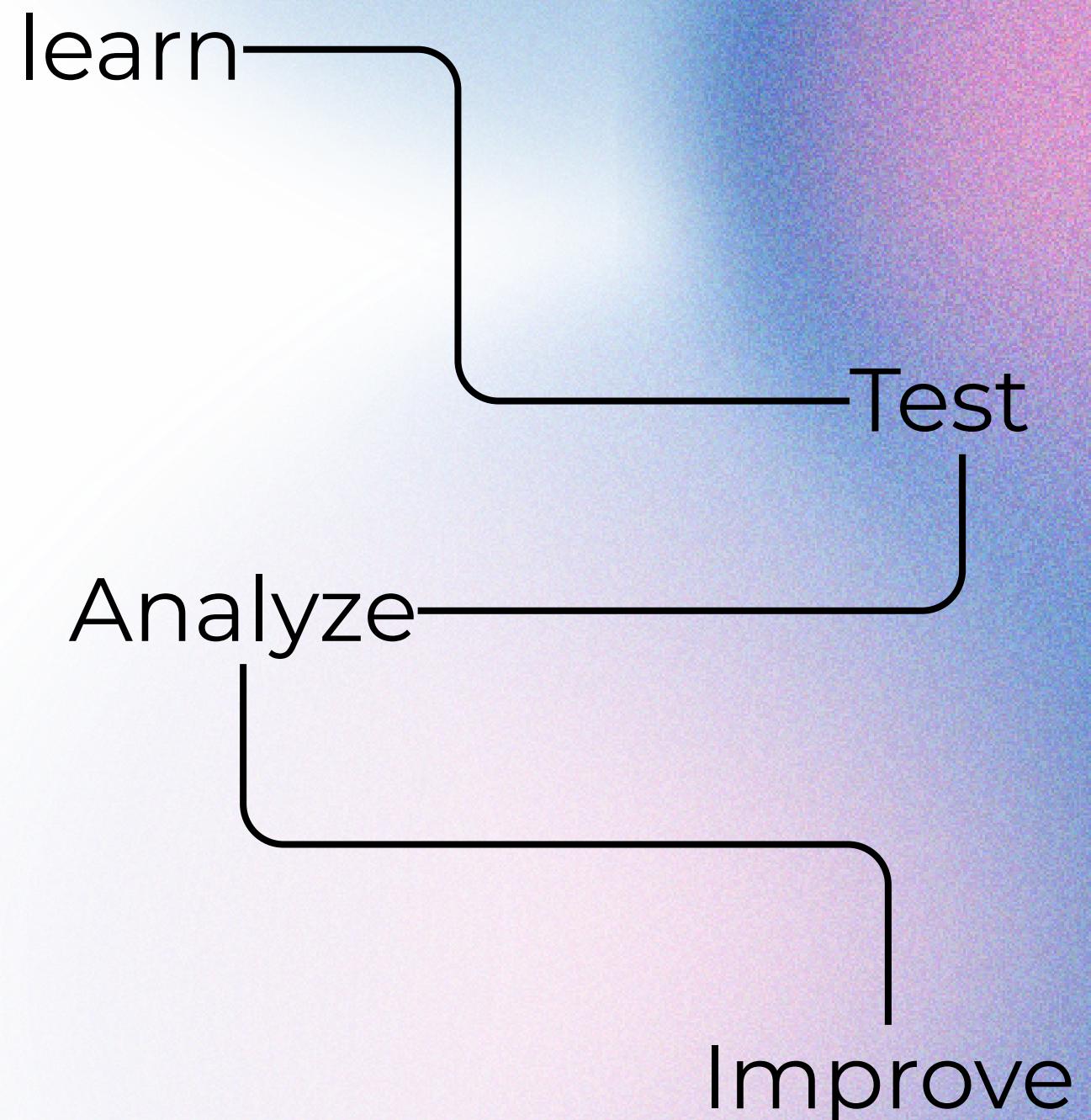
YouTube



Proposed Solution

EduMind Provides :

- Topic explanations using AI.
- AI-generated tests and quizzes.
- Performance analysis.
- Smart revision planning.
- Personalized learning path.



Target Audience

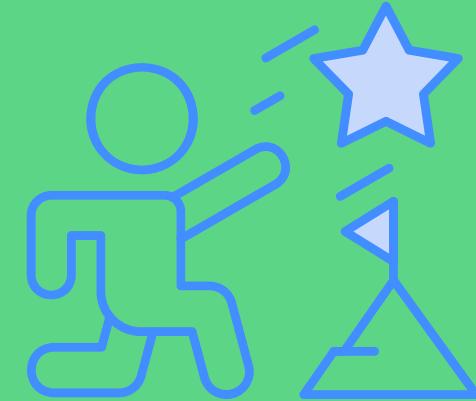
**SCHOOL
STUDENTS**
Basics & exam
preparation



**COLLEGE
STUDENTS**
Assignments &
semester exams



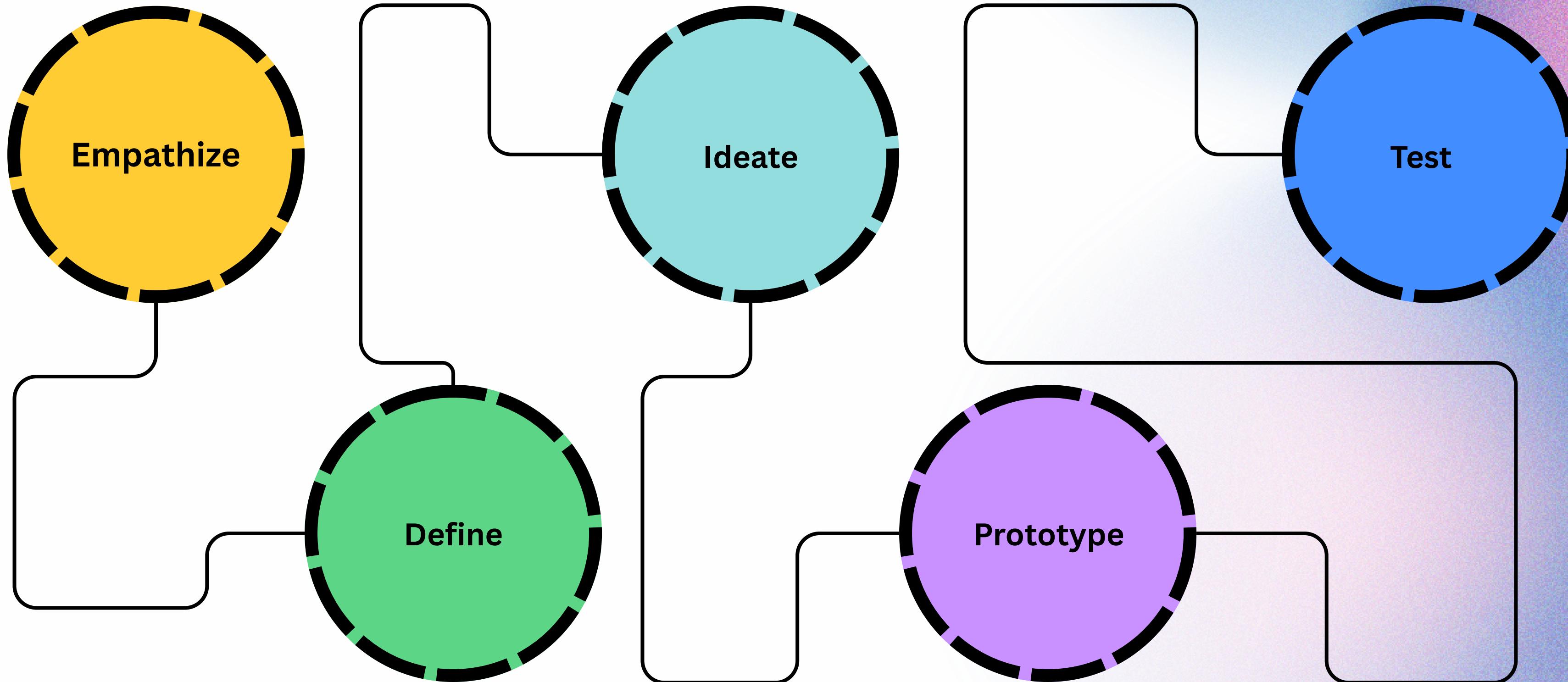
**COMPETITIVE
ASPIRANTS**
Structured practice &
revision



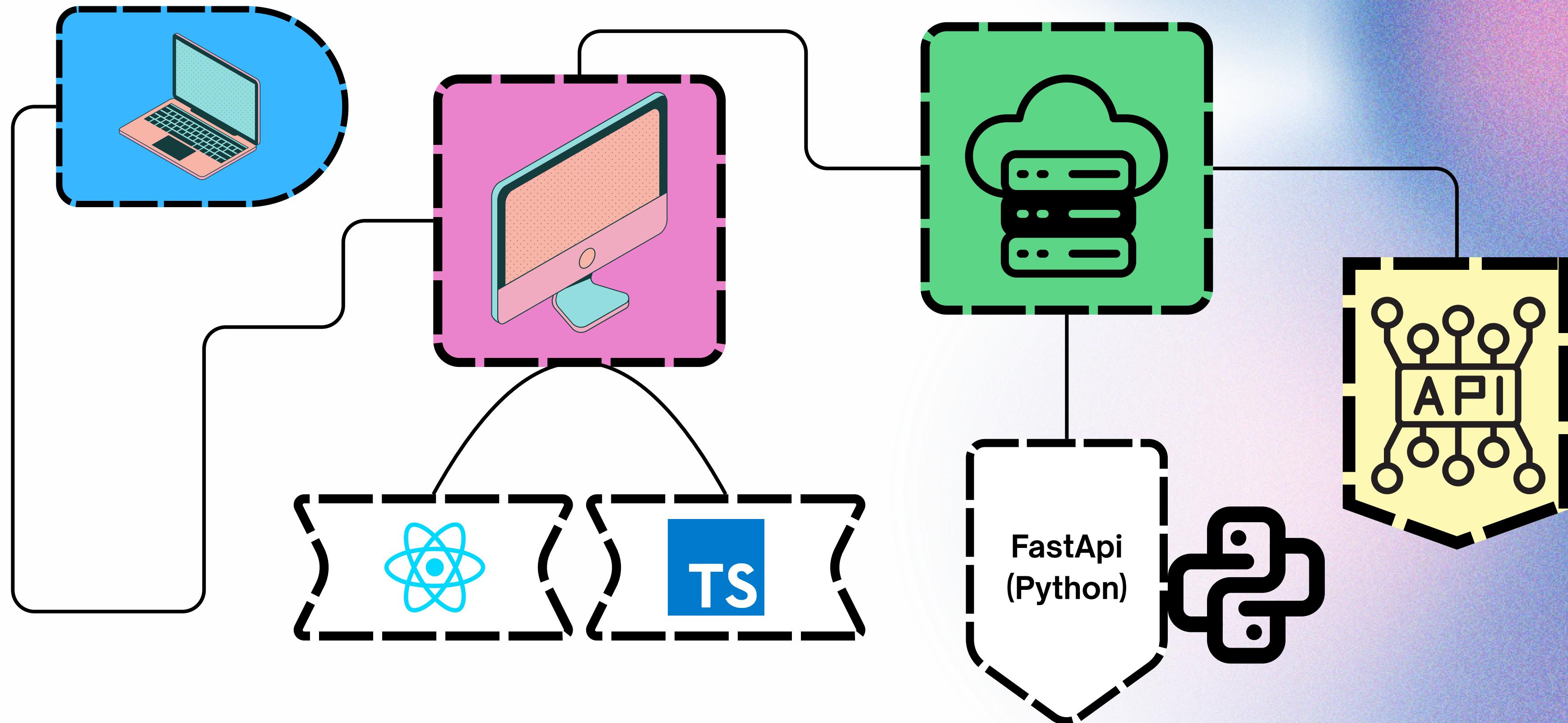
**SELF
LEARNERS**
Personalized self-study
support



Design thinking Process

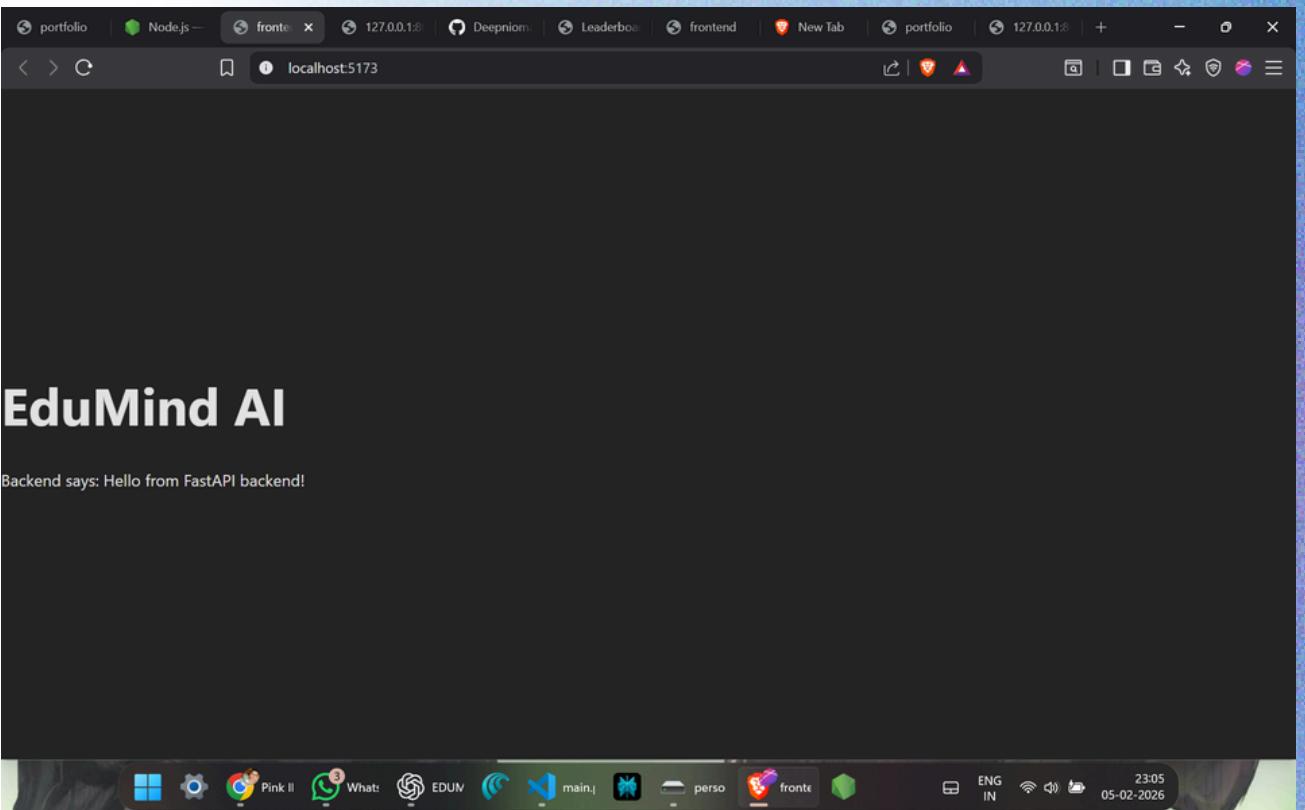


System Architecture



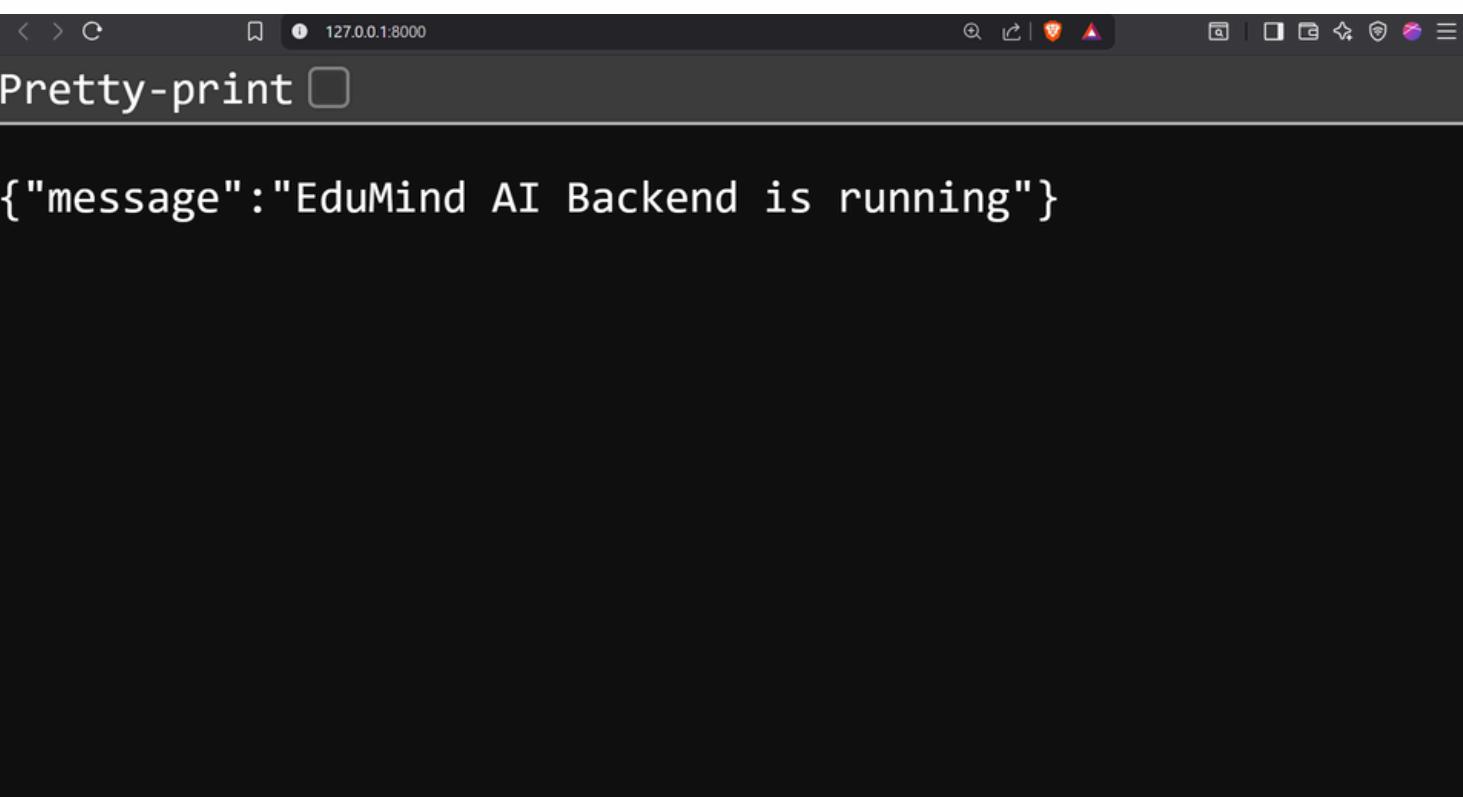
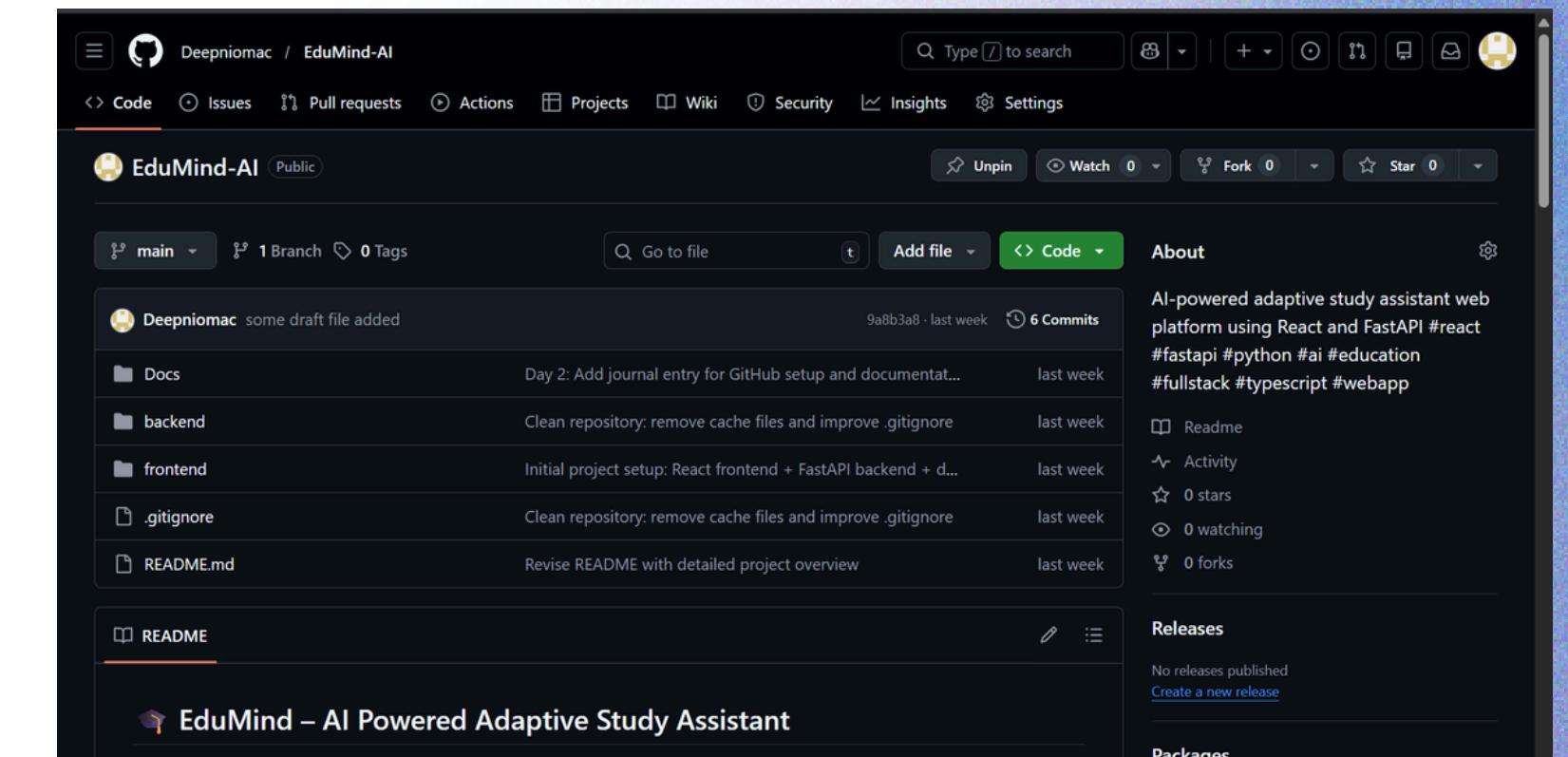
Implementation So Far

 React frontend developed



 API communication established

 Test endpoint implemented



 GitHub version control setup

Novelty and Advantages

Novelty

- ★ Implementation of an adaptive learning cycle.
- ★ Development of a workflow-based study system.
- ★ Establishment of performance-driven planning.
- ★ Creation of personalized learning pathways
- Integration of features beyond a conventional chatbot.

Advantages

- ✓ Enhances study efficiency.
- ✓ Augments comprehension.
- ✓ Provides intelligent revision support.
- ✓ Facilitates superior exam preparation
- Scalable to accommodate numerous users.

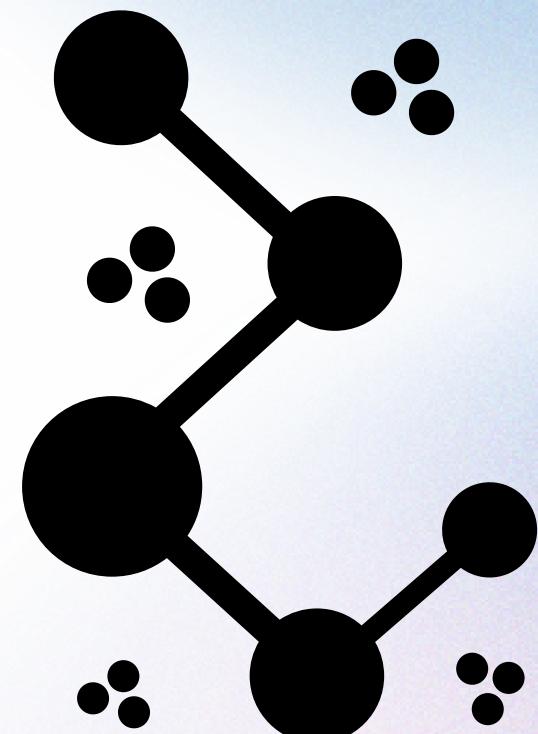
Conclusion and Future Scope

Conclusion :

- Built a full-stack web platform
- Integrated React frontend and FastAPI backend
- Successfully established API communication
- Created a scalable architecture
- Ready for AI integration

Future Scope :

- AI question generation
- Personalized study planner
- Progress dashboard
- Cloud deployment
- Mobile application



Thank You

From :
Team 10