

MENTOR-MATE

Personalized Tutor for A/L Students



Group 16

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INTRODUCTION To The Problem



The Problem

- ◆ In traditional learning environments
 - Limited one-on-one interaction with instructors
 - Individual tutors are expensive
 - Learning applications or books that already exists only give a general explanation not a feedback tailored to the students



What we need?

- ◆ A tool that reviews your answers to a question and gives you **personalized feedback** immediately



Proposed Solution

Chatbot + Context + Personal

Proposed Solution

- ◆ Mentor-Mate - Personalized tutor application that
 - ✓ Provide Questions
 - ✓ Get Students Answers
 - ✓ Grade the Answer
 - ✓ Give Personalized Feedback
 - ✓ In Real-time

What is our Scope?

User Requirements

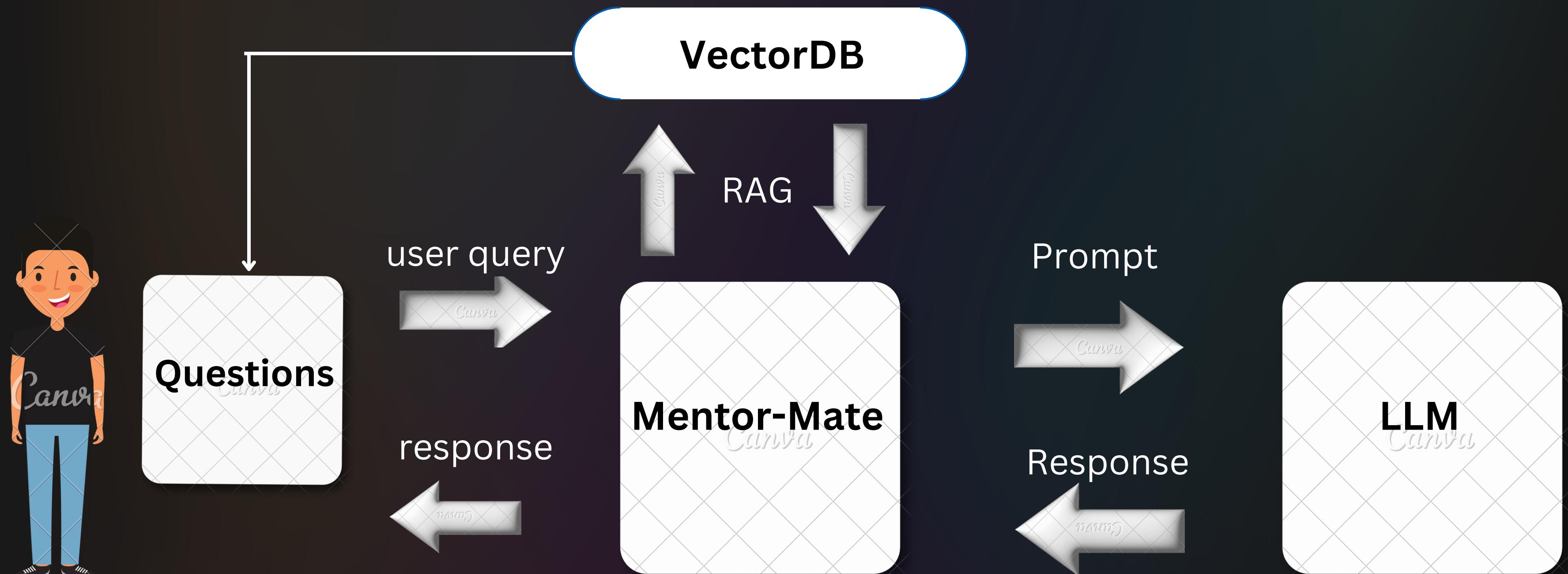
- To create an account
 - Submit answers to the provided questions
 - Keep track of users grades
 - Ask questions and interact with the system
 - Search questions or topics
 - Set **personalized goals**
 - Get related questions from the system



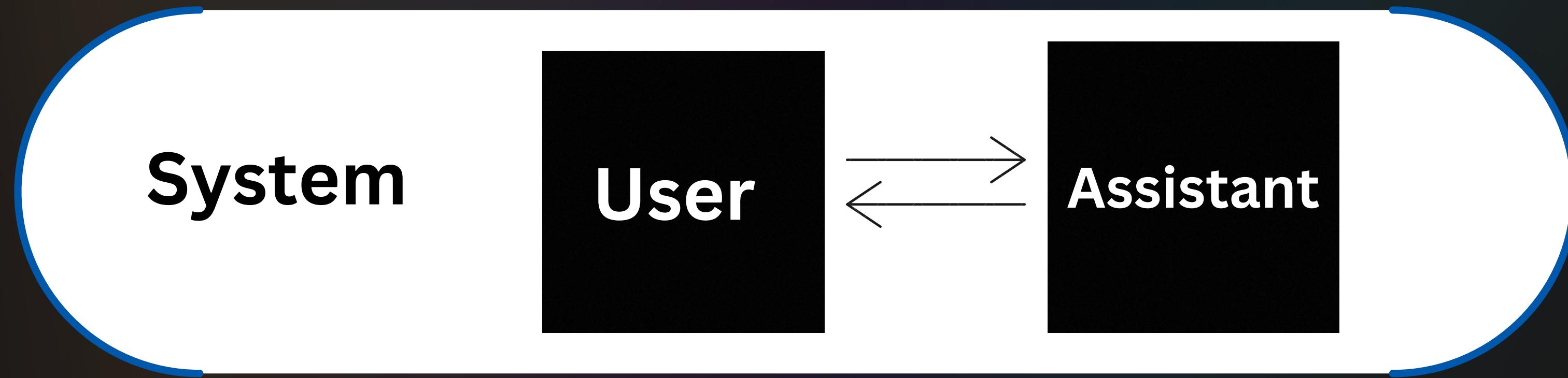
System Requirements

- Consider the student's answer in light of the subject's syllabus
- Create effective prompts for the submitted answers
- Give personalized feedbacks
- Provide a range of questions covering related topics
- Recommend questions based on the student's performance
- Provide a comprehensive **personalized plan**

OUR APPROACH



OUR APPROACH



Extendability

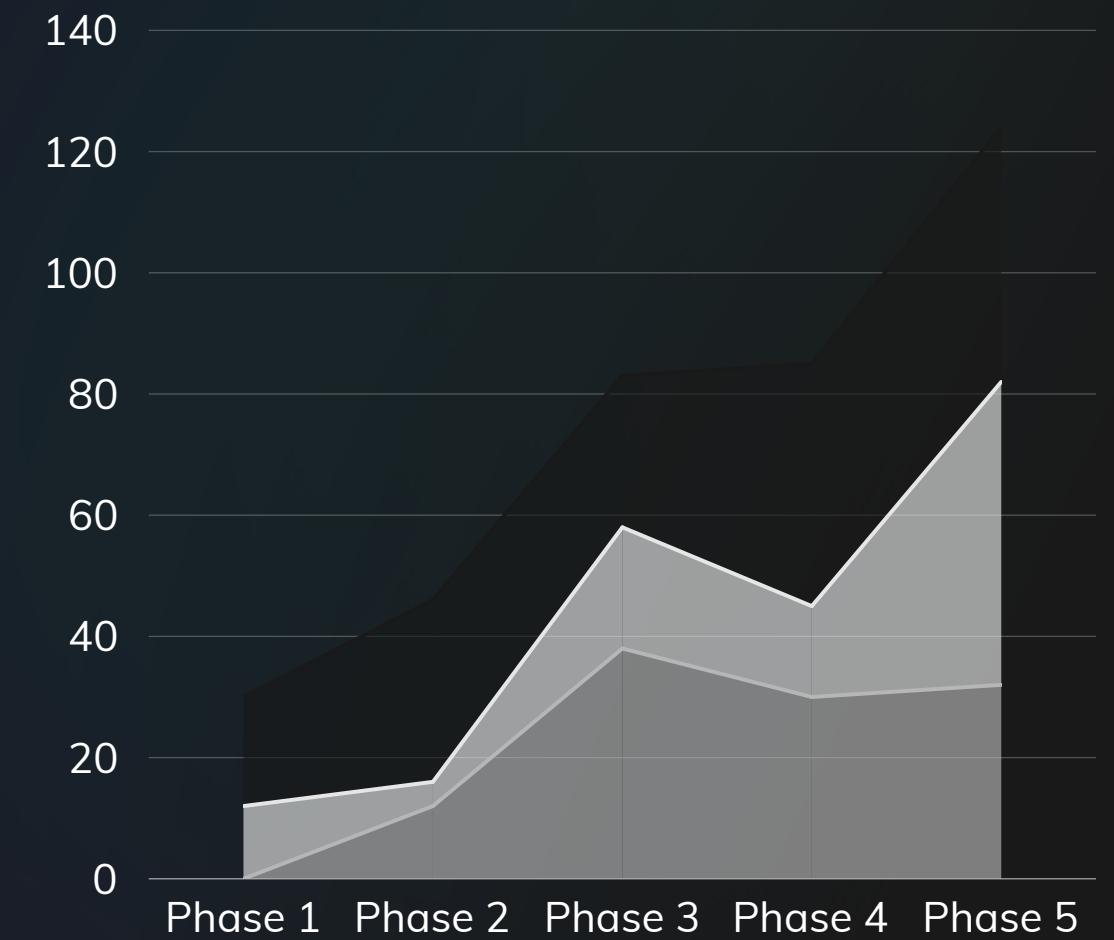
- For other subjects, courses and exams
- As a grading assistant for educators
- A platform for collective learning
- Progress tracking
- Resource bank
- Image Recognition with NLP

Constraints

- Limited to English medium
- Limited to text only questions, answers and feedbacks
- Limited to subjects without complex mathematics
- Length Limitations
- Feedbacks may reflect biases

The Success

- ◆ **The Success of the solution will be measured by,**
 - Enhancement in student academic performance
 - User interactions
 - Engagement in applications
 - Getting feedback from both students and educators



Why do we need Mentor-Mate?



Timeline

Key milestones in the development process of the application

Milestone 1

Milestone 2

Milestone 3

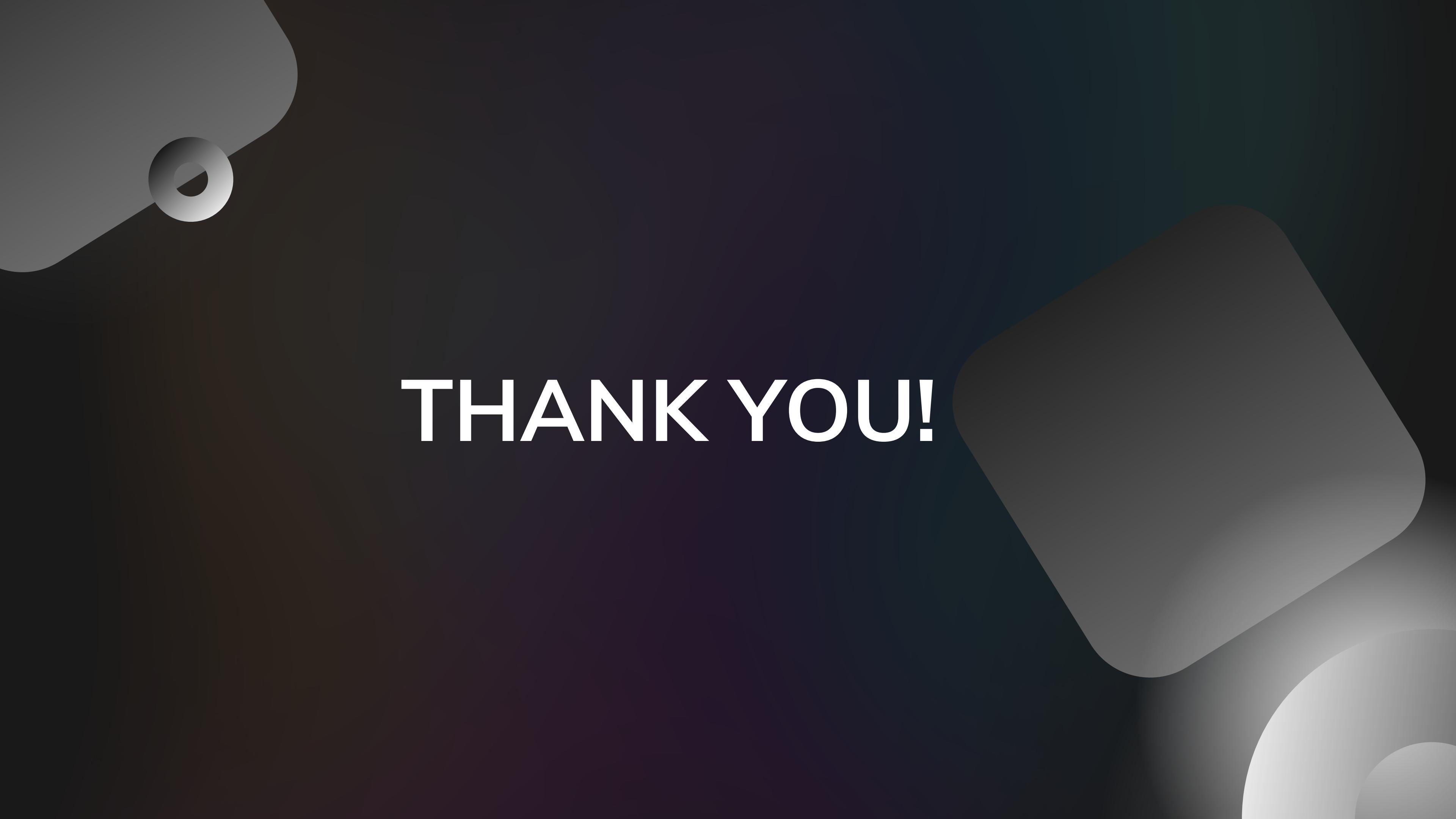
Milestone 4

Research and Analysis -
AI concept development begins with research and analysis

Design and Development -
Designing the application interface
Developing backend functionalities.

Integration and Testing -
Integrating AI algorithms for feedback generation
Conducting thorough testing.

Deployment and Feedback -
Launching the app for public use
Gathering user feedback for further improvements.



THANK YOU!