Project development progress record

Group Name	Code to Success
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Project Name	Enjoy life with poetry
Project Development Cycle	2024.9.21-2024.12.17

1 Project Overview

The "Poetry for Life" project aims to provide users with an intelligent dialogue platform based on a large model, combining poetry culture to enhance users' cultural experience and interactive fun. The project development is divided into three cycles, gradually building the overall framework, improving functions and optimizing user experience.

2 Cycle1

2.1 Time

- Start date: October 23, 2024
- End date: November 12, 2024

2.2 Objectives

- Determine the project direction and technical route.
- Build front-end and back-end frameworks to implement core functions.
- Complete the registration and login functions and the backend content of the large model dialogue.

2.3 Work content

1. **Project direction and demand analysis**
   - The group discussion determined the core functions and technology selection of the project.
   - User needs have been clarified, including registration and login, intelligent conversation, poetry recommendations, etc.
2. **Front-end and back-end framework construction**
3. **Core function implementation**
   - **Registration and login function:**
     - Realize user registration, login, and password encryption storage.
   - **The backend content of the large model dialogue:**
     - Access the large language model API to implement intelligent conversation capabilities.
     - Initially realize the generation and return of conversation content.

2.4 Results

- The basic framework of the project has been completed.
- The registration and login functions and the large model dialogue function have been implemented.
- It laid the foundation for subsequent development.

2.5 Plan for the next development cycle

- Improve and beautify the front-end interface
- Large model backend performance optimization
- Added model switching and question recommendation functions

3 Cycle2

3.1 Time

- Start date: September 21, 2024
- End date: October 22, 2024

3.2 Objectives

- Improve the front-end interface design and enhance the user experience.
- Optimize the backend performance of large models and add new features.
- Implement web link recommendation function.

3.3 Work content

1. **Improve the front-end interface**
   - Optimize page layout and enhance visual effects.
2. **Large model backend performance optimization**
   - Optimize API call logic and reduce response time.
   - Add a cache mechanism to improve the conversation response speed.
3. **New features**
   - **Model switching function:**
     - Support users to switch between different large models.
   - **Question recommendation function:**
     - Recommend related questions based on the user's historical conversation records.
   - **Web link recommended function:**
     - Recommend relevant web links based on the content of the conversation.
4. **User experience optimization**
   - Optimize the interactive design of the dialogue interface.

3.4 Results

- The front-end interface is more beautiful and the user experience is significantly improved.

- The backend performance of large models is optimized and the response speed is improved.

- Newly added functions include model switching, question recommendation, and web link recommendation.

3.5 Plan for the next development cycle

- Improve development documentation to ensure project maintainability.

  Complete project integration testing and optimize user experience.

4 Cycle3

4.1 Time

- Start date: November 13, 2024

- End date: December 17, 2024

4.2 Objectives

- Improve documentation at each stage of the project to ensure project traceability.

- Complete project integration testing and optimize user experience.

- Resolve legacy issues and ensure stable project operation.

4.3 Work content

1. **Improved documentation**
   - Write project requirement documents, design documents, and test documents.
   - Organize code comments to ensure code readability.

2. **Project integration testing**
   - Perform comprehensive testing on the front-end and back-end to ensure normal functionality.
   - Fix bugs found during testing.

3. **User experience optimization**

4. **Performance Tuning**
   - Optimize database query performance and reduce response time.
   - Optimize large model API call logic to improve response speed.

4.4 Results

- The project documentation is complete, ensuring the maintainability of the project.

- Completed project integration testing and fixed all known bugs.

- The user experience is significantly improved and the project runs stably.

4.5 Summary

- After three cycles of development, the project has basically completed all core functions.

- The accuracy of large model dialogues and web link recommendation functions can be further optimized in the future.

5 Project Summary

- The overall development of the "Poetry for Life" project has been completed, realizing functions such as registration and login, intelligent dialogue, model switching, question recommendation, and web link recommendation.

- The project documentation is complete, ensuring the maintainability and traceability of the project.