

Meeting Minutes - Deliverable 2

Meeting Minutes: Phase 2 Review - System Design and Tech Selection

Date: February 21, 2024

Attendees: Srichandan Kota, Swapna Sonti, Sandeep Chowdary Ari, Venkata Sai Shankar Koppula, Shivanandha Reddy Vasudevula, Gana Deekshith, Kantumutchu Dinesh, Bhanu Prasad Krishna Murthy

Time: 10:00 AM - 12:00 PM

Location: Virtual (Google Meet)

Agenda Items and Discussed Points:

1. Review of System Design and Tech Selection (Feb 6 - Feb 26, 2024)

- Discussion: The team reviewed the finalized system architecture, emphasizing microservices for scalability and maintenance. The selected tech stack includes Next.js for the frontend, MySQL for database, Socket.io for real-time communication, and Prisma for ORM.
- Decision: The team confirmed the system design and tech stack selection, with a consensus on the architectural approach and technologies.

2. Database Schema and ORM Integration

- Discussion: Shivanandha Reddy Vasudevula presented the initial database schema, highlighting the structure for user data, messaging, and channels. The integration of Prisma as the ORM tool was discussed for managing database operations.
- Action Items:
 - Finalize the database schema by March 1, 2024.
 - Begin ORM integration with sample data for early-stage development by March 5, 2024.

3. Frontend Development Kickoff

- Discussion: Swapna Sonti and Venkata Sai Shankar Koppula showcased initial UI mock-ups and proposed using Tailwind CSS for styling. The importance of a component-driven development approach using React was emphasized.
- Action Items:
 - Develop a prototype of the main user interface components by March 10, 2024.
 - Conduct a UI review session with the team on March 12, 2024.

4. Real-Time Communication Setup

- Discussion: Sandeep Chowdary Ari demonstrated a basic chat server setup using Socket.io, discussing potential scalability and performance considerations.

- Action Items:
 - Enhance the chat server with additional real-time features such as message broadcasting and user presence by March 15, 2024.
 - Schedule a technical session on Socket.io for the development team by March 17, 2024.

5. Authentication and Security Measures

- Discussion: Gana Deekshith outlined the authentication flow, proposing Clerk for secure user management. The team also revisited the plan to implement JWT and HTTPS for data security.
- Decision: Approved the authentication strategy and security measures, with detailed implementation plans to be developed.

6. Documentation and Demo Preparation

- Discussion: Bhanu Prasad Krishna Murthy and Srichandan Kota emphasized the importance of starting documentation early, including system architecture, database design, and API references. Plans for preparing demos of completed functionalities were also discussed.
- Action Items:
 - Begin documentation of the system architecture and database schema by March 7, 2024.
 - Prepare a demo of the real-time chat functionality by March 20, 2024.

7. Questions and Clarifications

- An open floor session allowed team members to ask questions regarding the tech stack, system design decisions, and their specific contributions moving forward.

8. Next Steps

- For All: Proceed with the development tasks as outlined in the action items.
- Next Meeting: Scheduled for March, 2024, to review the progress on core functionality development.

Conclusion

The Phase 2 review meeting successfully concluded with clear decisions on the system design, technology selection, and immediate action items for moving forward. The team's commitment to the selected technologies and architectural decisions sets a solid foundation for the next phase of development. With detailed plans for database schema finalization, frontend development, real-time communication setup, and security implementation, the project is well-positioned for success in developing core functionalities.