

Team Contract for IM System Development

Project Overview:

Our team will develop an Instant Messaging (IM) system using Qt, focusing on both essential and optional features.

Team Members:

- 计贻文
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- 彭婧怡
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Basic Features:

1. Registration
2. Login
3. Add/Delete Friends
4. One-on-One Chat
5. Group Chat
6. Offline Messages
7. File Sending/Receiving
8. Chat History
9. UI Design

Optional Features:

1. Message Recall
2. Voice/Video Calls (Note: This is complex and may be adjusted based on progress)
3. Email Functionality (To be considered based on feasibility)
4. Message Quoting
5. Message Forwarding

6. Emojis
7. Chat Bubbles
8. Unread Message Notifications
9. Status Settings (Invisible/Online/Busy)
10. Visible Friend Status
11. Voice Messages
12. Stickers/Pokes
13. Favorites
14. Group Chat Mentions (@)
15. Link Redirect to Browser
16. User Blocking
17. Contact Grouping
18. Moments/Feed

Qt Development Tools Overview:

Qt is a cross-platform application development framework widely used for developing application software with a graphical user interface (GUI).

Git Repository and GitHub Desktop:

We will use Git for version control to track changes and collaborate effectively. The repository will be hosted on GitHub.

GitHub Desktop is A user-friendly application for managing Git repositories, simplifying the process of committing changes, branching, and synchronizing with the remote repository.

Code Architecture:

We will follow the MVC pattern to separate data (Model), user interface (View), and control logic (Controller) to ensure a modular and maintainable codebase.

The system will be organized into modules corresponding to the different features (e.g., chat management, friend management, file transfer) to facilitate development and testing.

We will use asynchronous techniques for network communication to ensure smooth application performance and responsiveness.

Commitment to Communication:

- Regular meetings will be held weekly to review progress and address any issues.
- Each team member is responsible for providing updates on their assigned tasks.
- Collaboration and support among team members are crucial for the project's success.