



Chat Application

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Project Stack

- JavaFX
- Spring Boot
 - HTTP Requests
 - WebSocket Server
 - Spring Data JPA: storing messages, users, groups
- Jakarta EE
 - WebSocket Client for app
 - JSON processing
 - HTTP Requests
- Gradle for building



JavaFX™



JAKARTA® EE



What we each worked on

- Gradle
 - Setup the initial project and structure for server and application
- Spring boot
 - Created websockets for users to message each other
 - Created HTTP requests for the application to register users, add groups, etc
 - Setup the initial JPA database using H2, created some of the models used

What we each worked on

- JPA Models
 - Expanded the initial database to implement group chats
 - Created Group and GroupChat models for database
- JPA Repositories
 - Added query function to determine if a group chat exists
 - Added query function to return all users of a group chat
 - Added query function to return all groups a user is a member of

What we each worked on

- Login/Register
 - Designed a minimal login and register user interface
 - HTTP requests to allow creation and logging in of accounts
- Chat Window
 - Fixed visual bugs and fixed issues with sending/receiving messages
 - Created a notification popup similar to Discord

What we each worked on

- Chat Window
 - Designed and implemented UI with FXML
 - HTTP requests for loading a user's chats and groups on startup, adding users to a group chat
- Websocket Client Class
 - Handle sending messages to websocket server from user input
 - Handle receiving messages from websocket server

What we each worked on

- Documentation
 - Adding Javadoc comments to all public functions
 - Writing Testing Manual and User Manual

Demo

Please log in or Register!

Username:

Password: