🧑‍🦰 Anjana – User Management + Profile Features

🔧 Main Responsibilities:

- Implement user registration (Email, Username, Password, Nick Name, Profile Picture)

- Implement login & authentication

- Update profile (Username, Password, Nick Name, Profile Picture)

- Hibernate integration for user-related tables

- Validate and secure input

- GUI: Login & Registration forms

🤝 Shared Responsibility:

- Co-author user-related report sections & ER diagram with Member 4

👨‍🔧 Sanidu – Admin Functions + Chat Lifecycle Control

🔧 Main Responsibilities:

- Admin login (static seeded admin)

- Create and manage chats

- Subscribe/unsubscribe users to/from chats

- Remove users from the system

- Display live join/leave events

- GUI: Admin Dashboard & chat management panel

🤝 Shared Responsibility:

- Co-author report section on chat logic, Observer pattern, and Admin flow with Member 3

👨‍💼 Ishan– Chat Engine + RMI + Observer Pattern

🔧 Main Responsibilities:

- Design & implement RMI server + interfaces

- Multithreaded chat handling (message broadcasting, user session tracking)

- Observer pattern for notifying subscribed users

- Capture chat start/end times and user actions

- "Bye" command handling, chat auto-termination

- Maintain chat state in memory

🤝 **Shared Responsibility:**

- Unit testing and RMI integration testing (with Member 2)

🎨 **Avishka – Chat GUI + Logging + File/DB Integration**

🔧 **Main Responsibilities:**

- Java Swing GUI for chat window (message area, user list, timestamps, nicknames, images)

- Notification popup when chat starts

- Save chat logs as .txt (with timestamped naming)

- Link log files to chat ID in the database

- GUI updates on join/leave/messages in real-time

🤝 **Shared Responsibility:**

- Finalize report layout & GUI design screenshots with Member 1

🔄 **Group-Level Collaboration Tasks**

Task	Assigned To
Database Schema Design (ERD)	Anjana, Avishka
Class Diagrams	Ishan, Sanidu
Integration Testing	All Members

Task	Assigned To
GitHub Repo Management	Rotate weekly
Report Writing	All (each on their module)
Presentation Slides	All (1–2 slides per member)