// Phase 2
Design

Group 4: Communications

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Links

Project GitHub

Meeting Minutes

com.com

[com]pany
[com]munications

By this point:

– Software requirement documents are complete
– All basic UML of class candidates, use cases, sequences are complete
– Project schedule has tasks, member assignments, and real dates

In Progress:

– Final design includes most classes, interfaces, and use cases.
– Each team member has a list of classes to design.
– Use cases and sequence diagrams for 90% of all cases.
– Group task and workload schedule

Project Phase 2:

- Brief Group Presentation: 7 minutes each
- Demonstrate Design Documents
- Class, sequence, and use case diagrams
- Group task and workload schedule
- Submit team project docs, meeting minutes, and project schedule all as a single group submission.

Phase II Deliverables

- Updated SRS
- A new Design Specification Document
  - With UML diagrams, class candidates
- He wants fully static documents, no embeds
- Project schedule
  - Gantt chart
    - Make sure milestones are present
    - What order should the classes be implemented? We should start thinking about it at this point. Considerations:
      - Networking implementation should be one of the first things to be implemented
      - Server and client should be implemented at the same time to provision the ability for testing
        - Make sure they work with each other!
- Our presentation: pitch our design for the project.

- Created a Design Document that showcases:
  a. Design Goals
  b. Architectural Design
     - Use Case Diagram
     - Class Diagram
     - Sequence Diagram
  c. Interface Specification

- Integrated Use Case Specification Document into the Design Document

- Added a New Module to our SRS Document (4 -> 5) to reflect our Class Diagram:
  a. Communication Module
  b. User Management Module
  c. Chat Module
  d. Record Module
  e. UI Module (NEW!!!!)

GROUP 4

Company Communications Systems

Design Document

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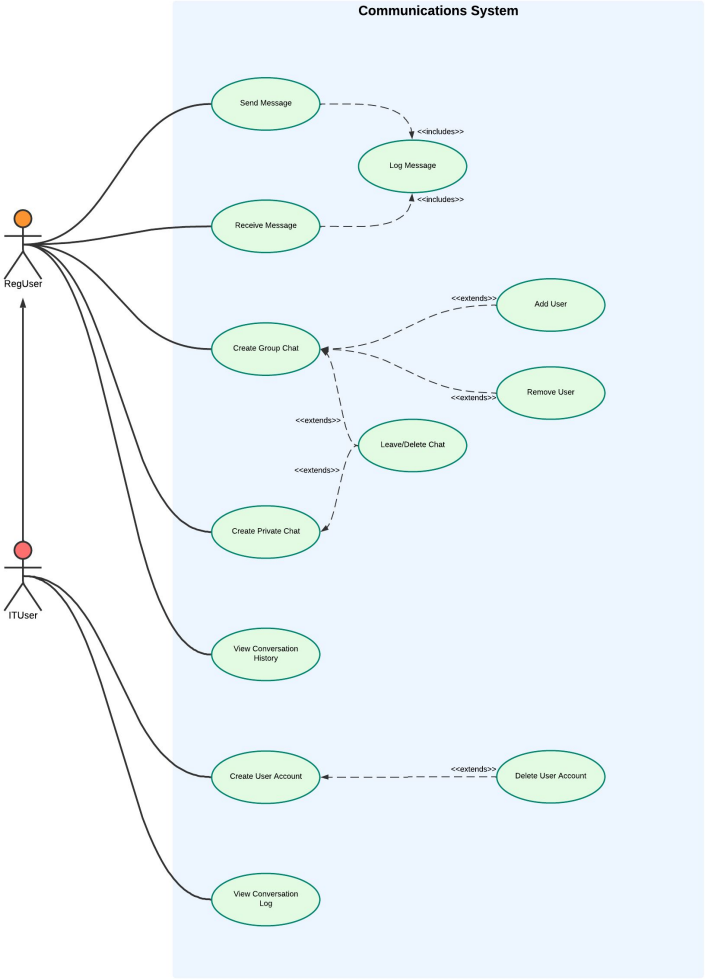
DIAGRAMS

Use Case Diagram

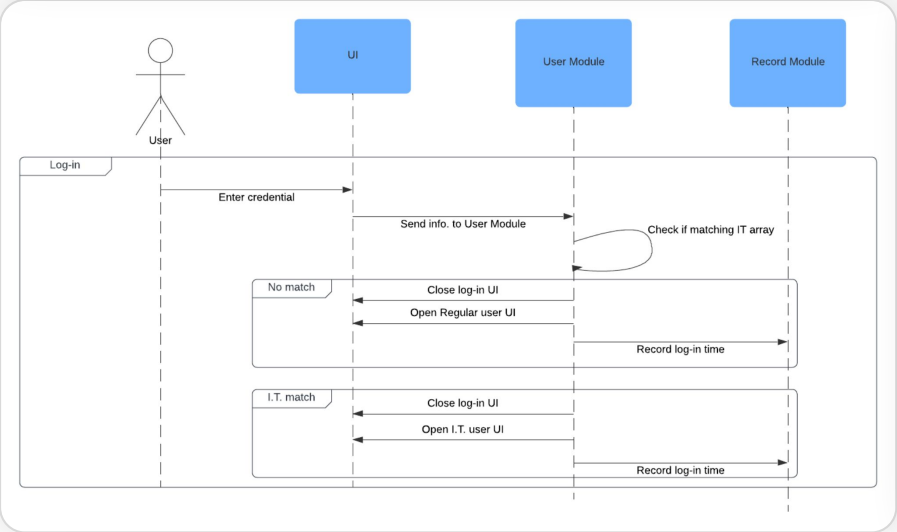
Two main actors

- Regular user
  - Created by IT User
- IT user
  - Extra privileges

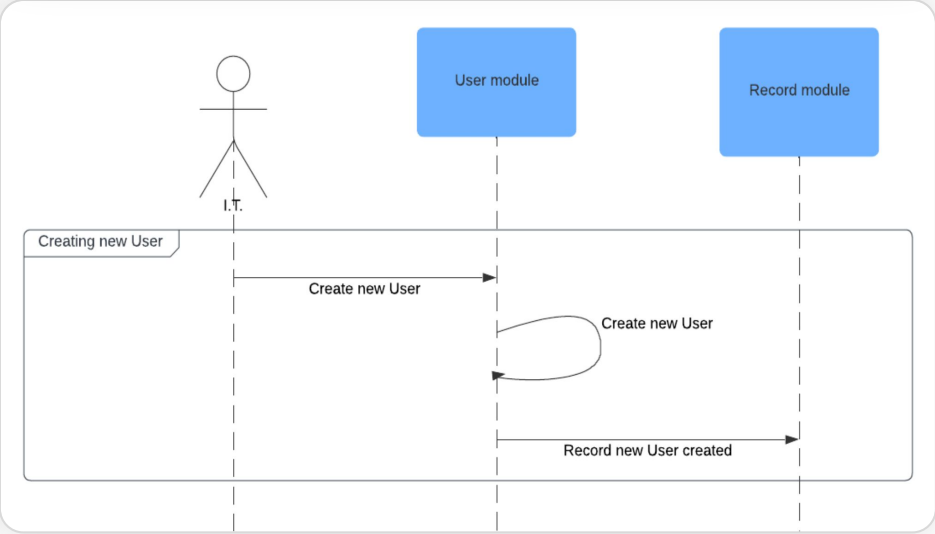


User Management

Log-in Sequence

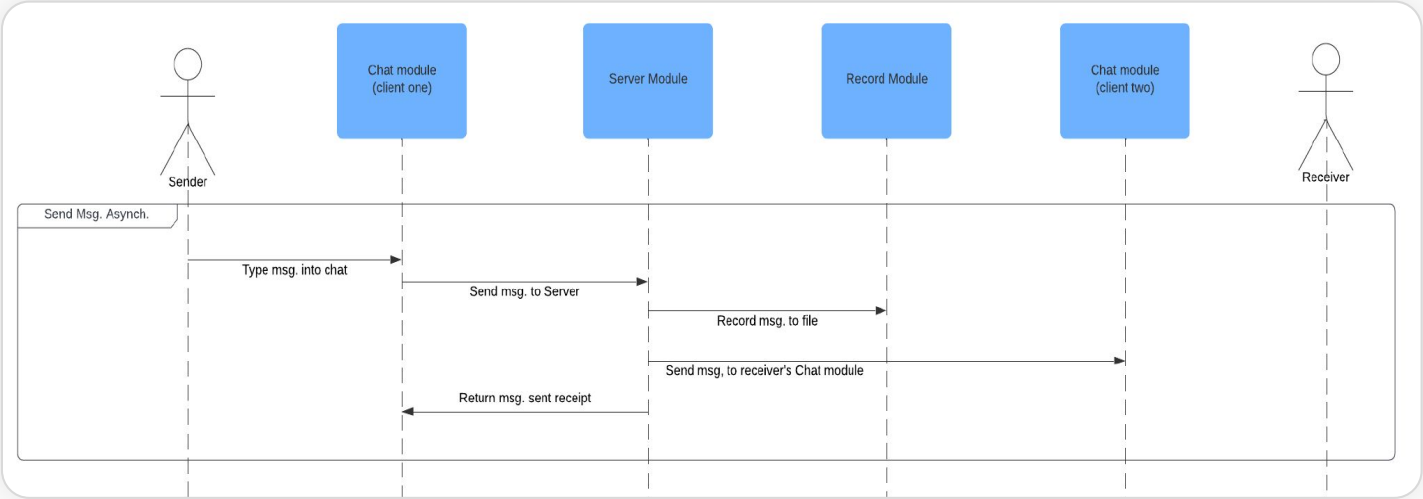


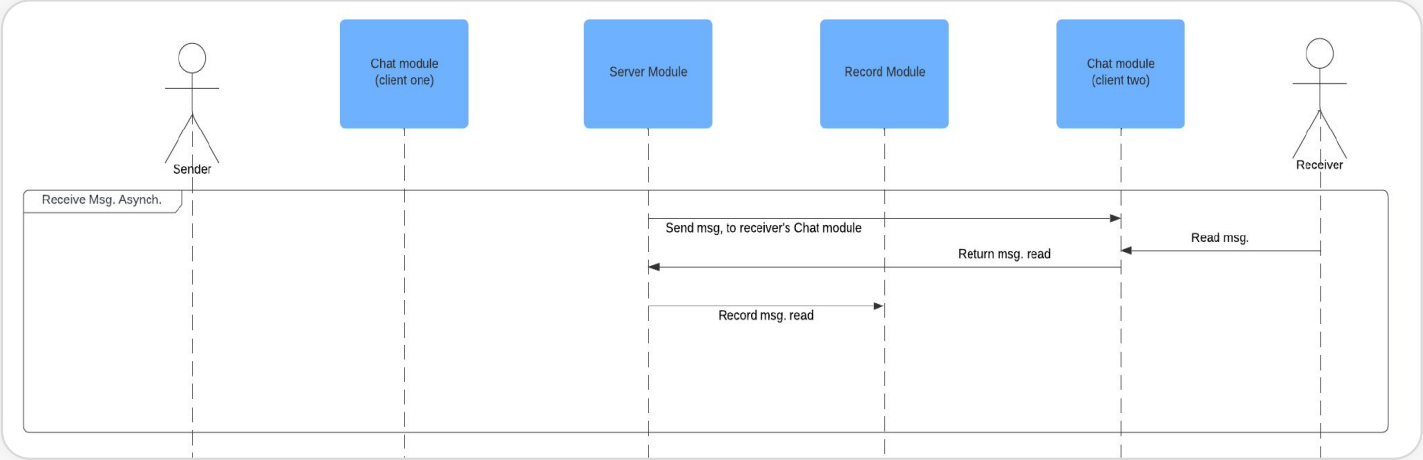
User Creation Sequence



Message Operations

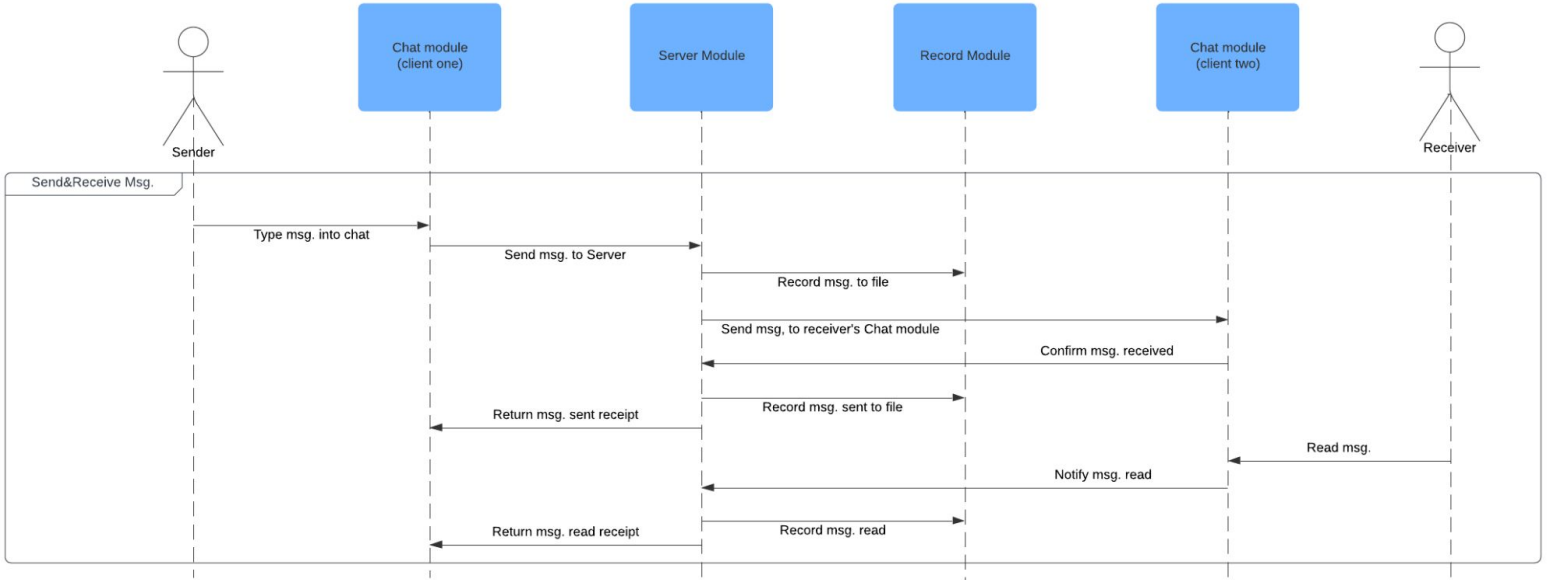
Asynchronous messaging, send and receive





Message Operations

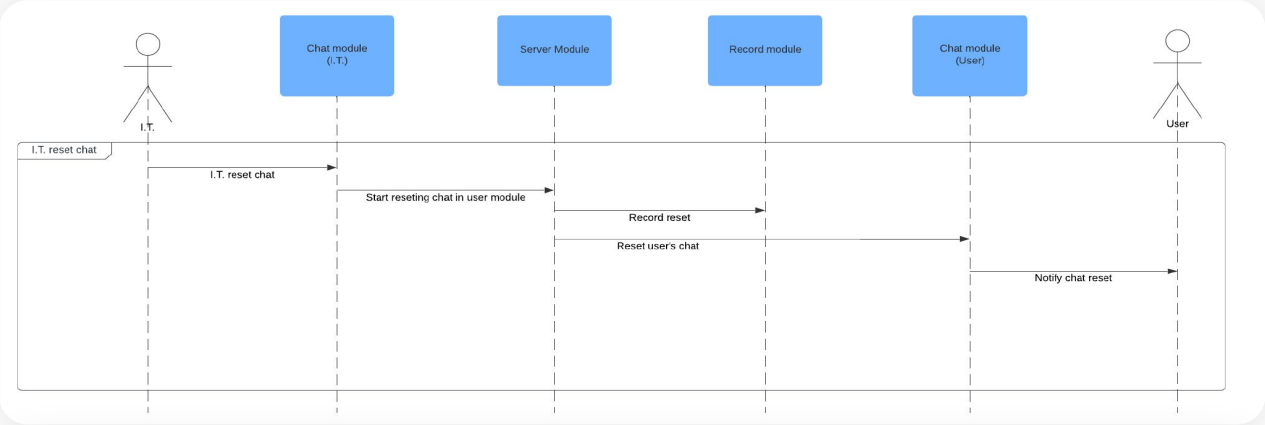
Synchronous Send and Receive Message

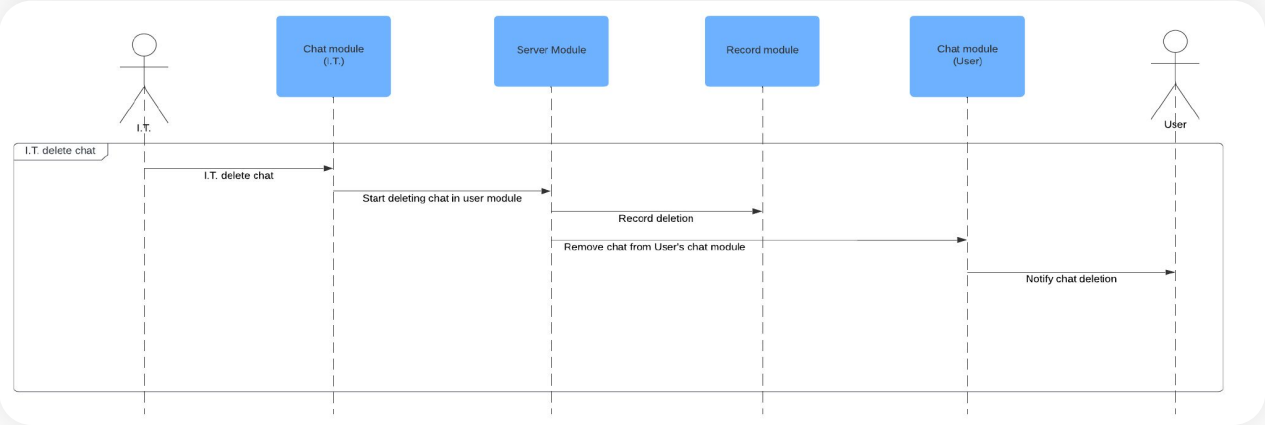


History and Record Management

Chat Reset - history cleared from user view by IT

Chat Delete - history cleared from user view and group dissolved by IT

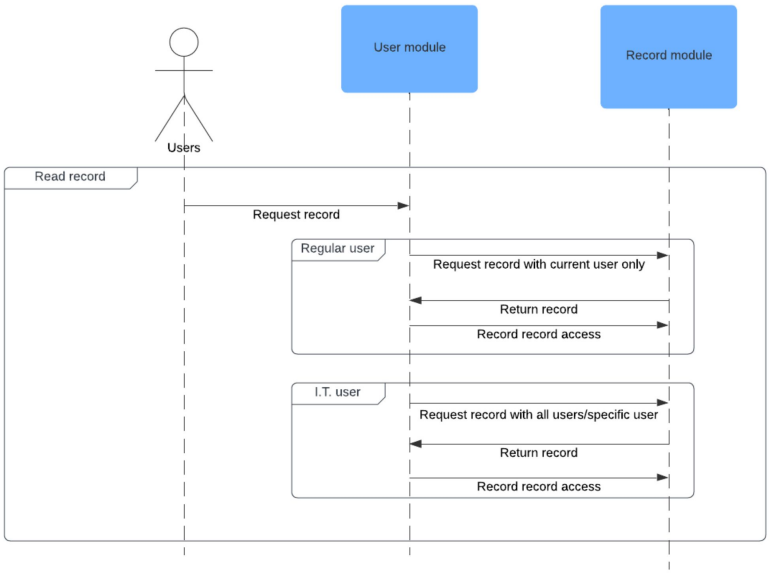




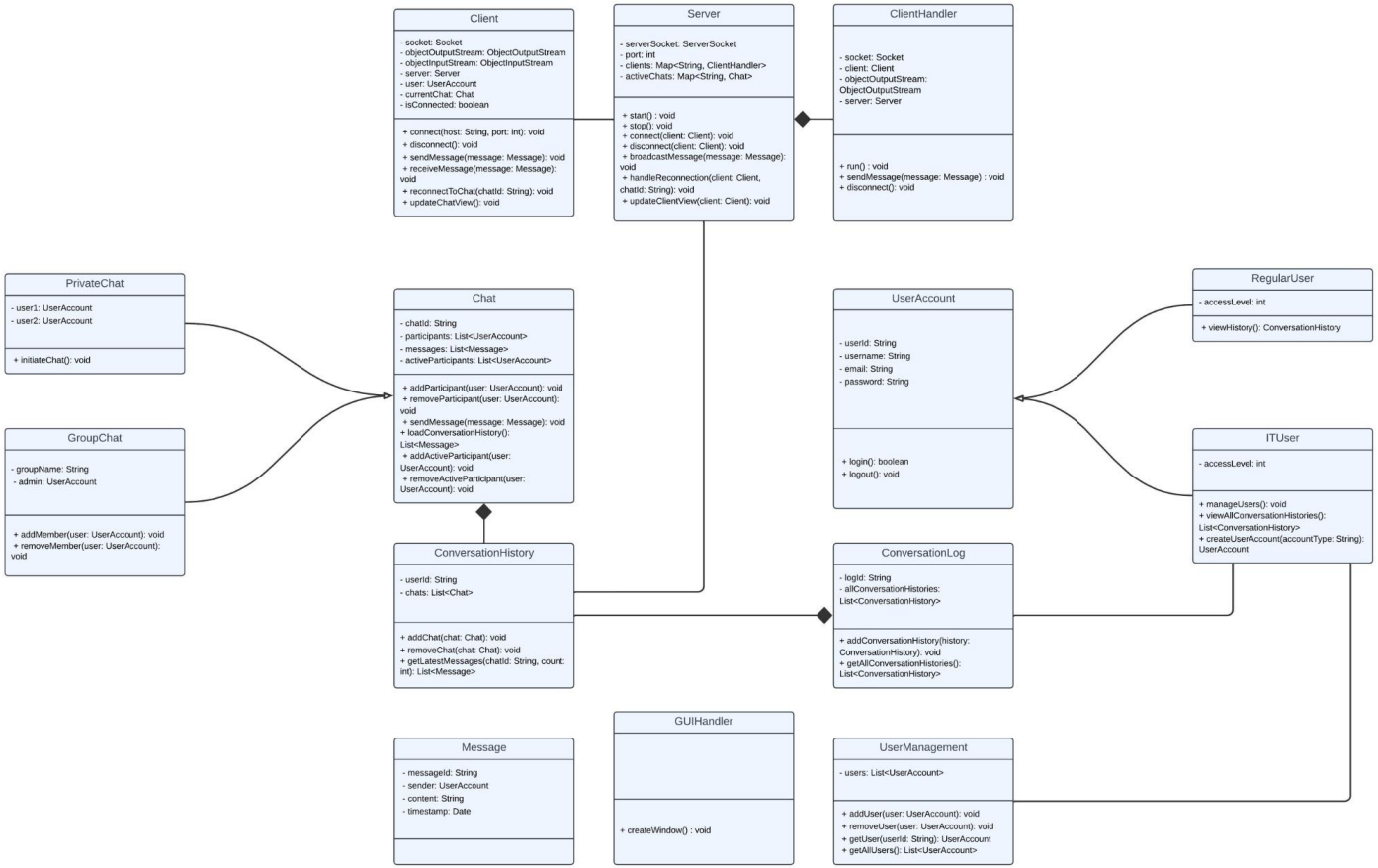
History and Record Management

Different privileges for regular user and I.T. user

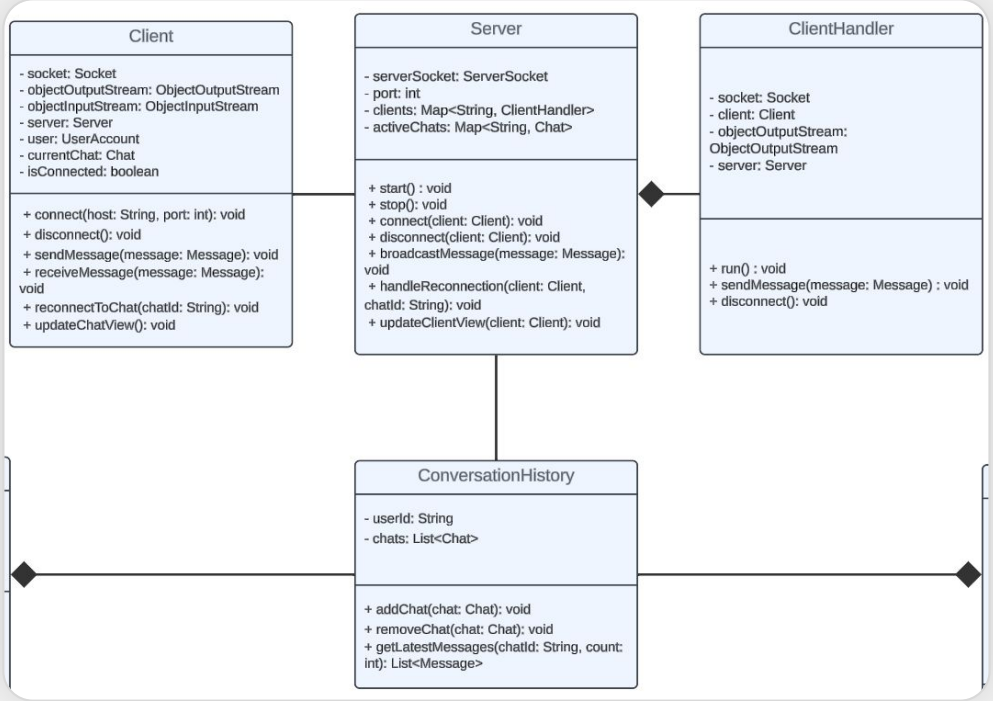
Request chat history



Communications System
Class Diagram

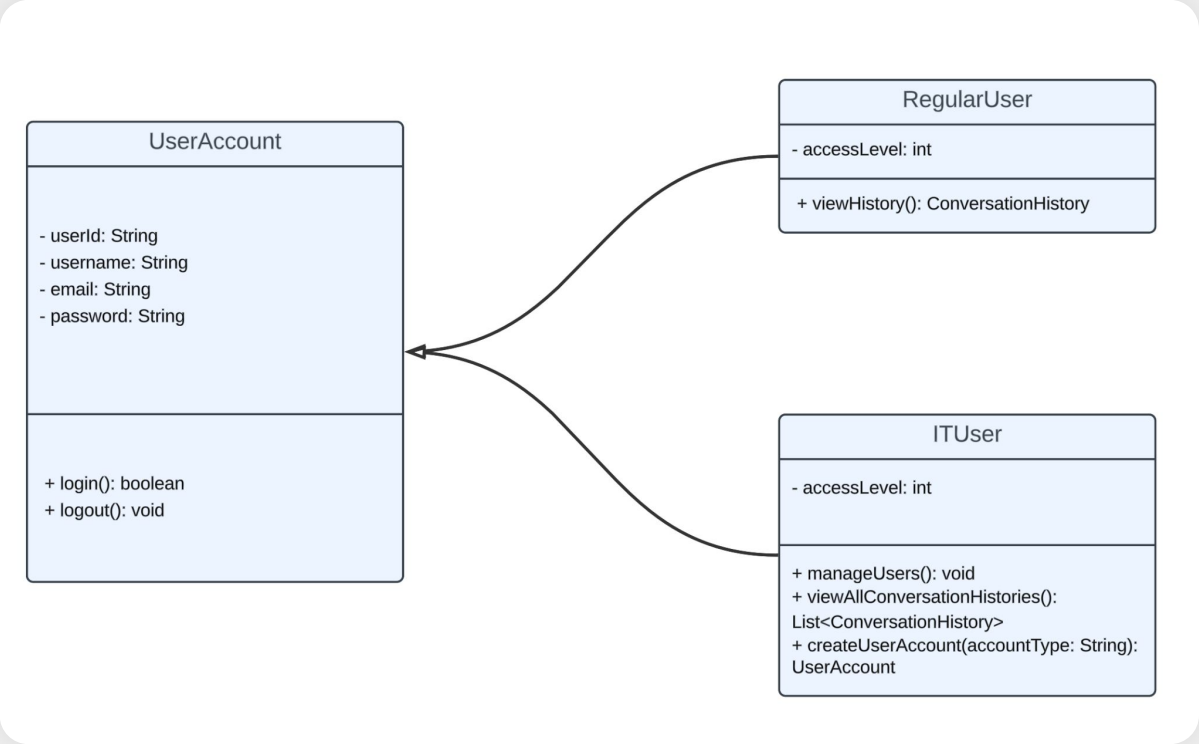


Client and Server

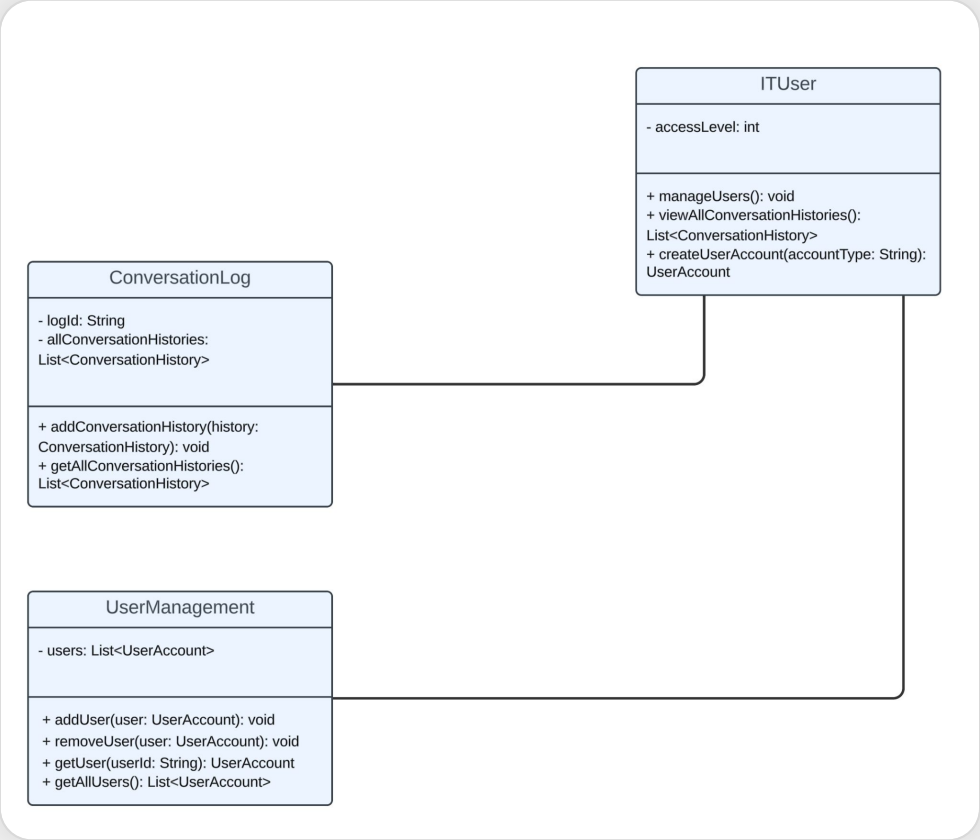


Conversation log

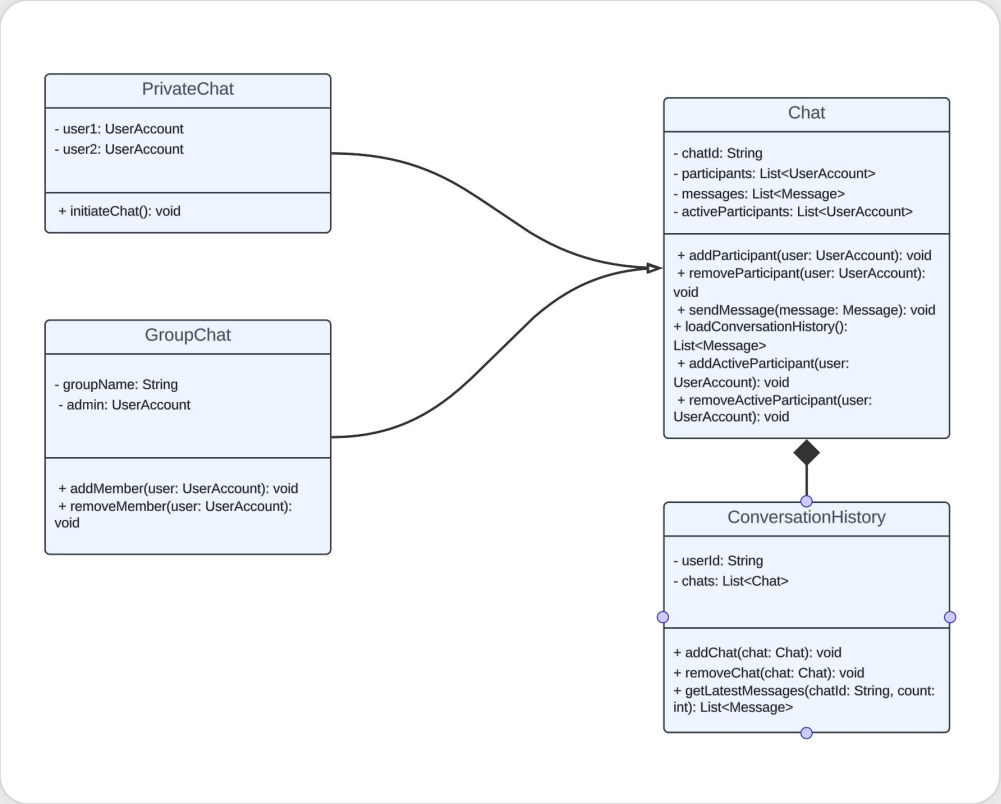
User Account



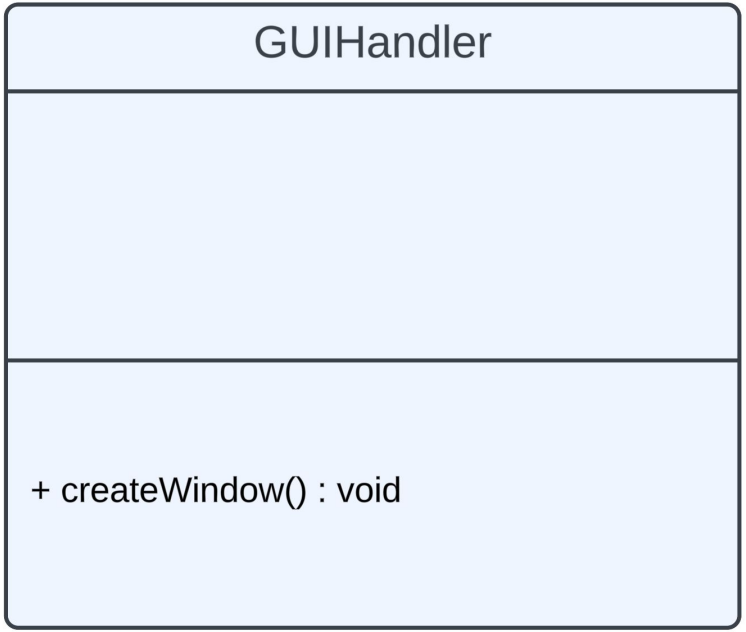
I.T. User and Privileges

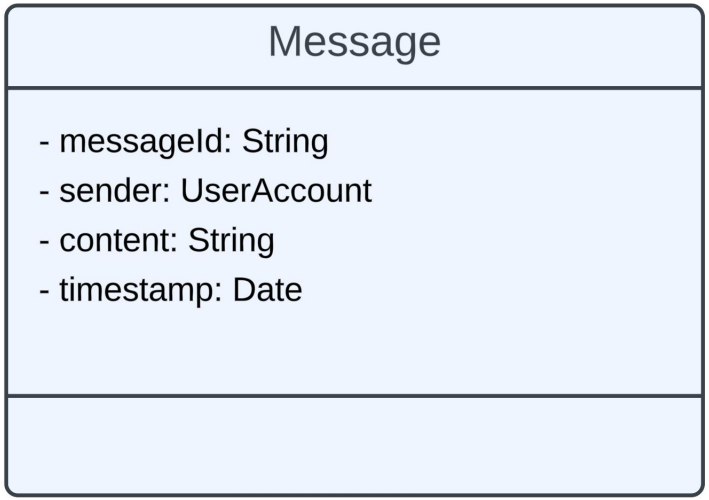


Chat Class and Conversation History



Other class candidates





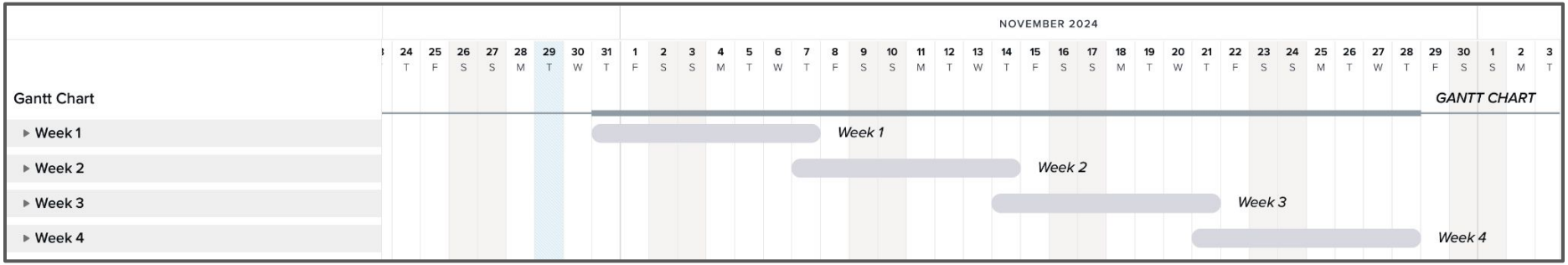
GANTT CHART & MEETING SCHEDULE

Every Thursday

5:00pm - 7:00pm

Meeting Format

- ❑ Present each member's implementation; Ensures everyone understands every part in our system
- ❑ Merge each member's branch to main branch @ GitHub
- ❑ Ends with understanding the following week's to-do-list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25 F
26 S
27 S
28 M
29 T
30 W
31 T
1 F
2 S
3 S
4 M
5 T
6 W
7 T
8 F
9 S
10 S
11 M
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19 T
20 W
21 T
22 F
23 S
24 S
25 M
26 T
27 W
28 T
29 F
30 S
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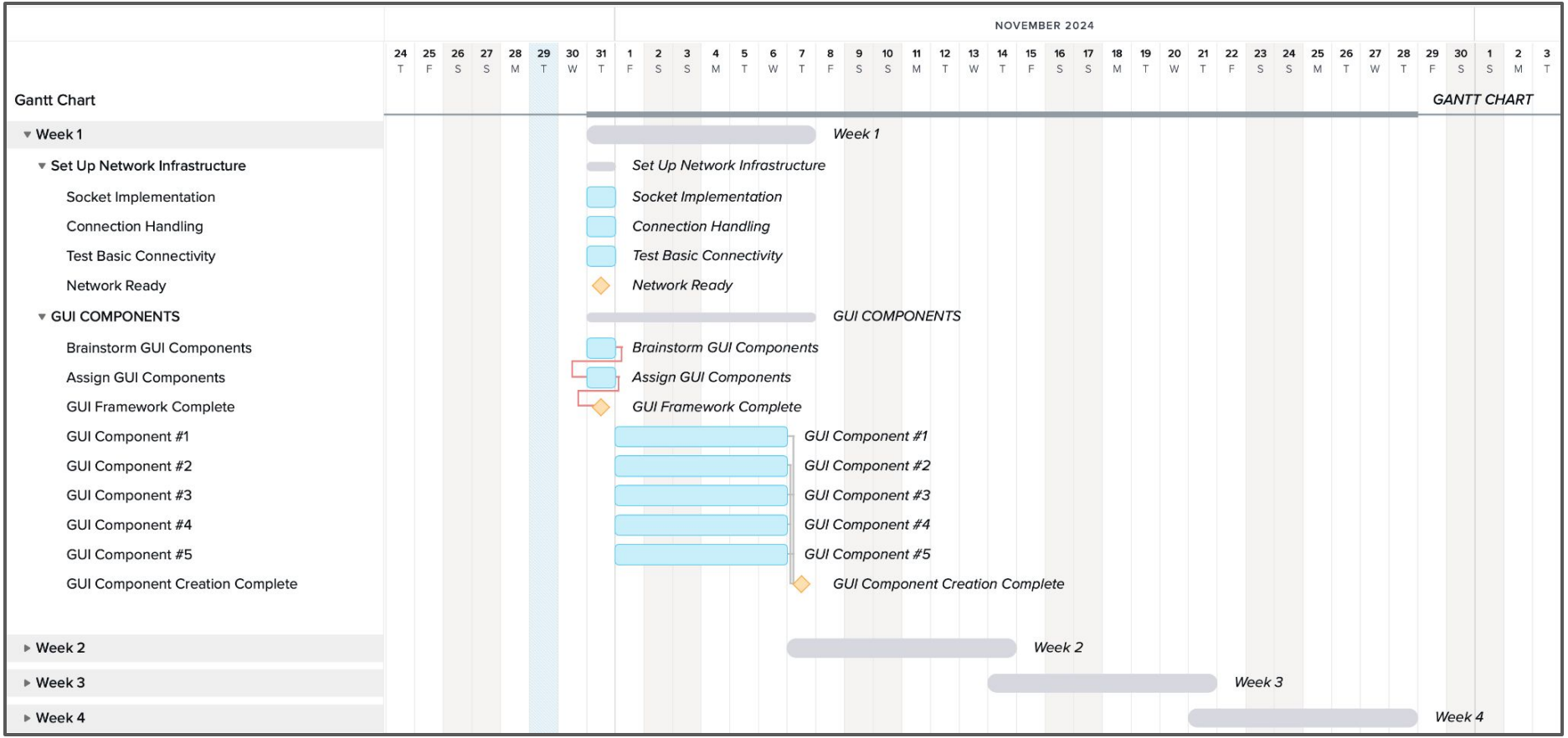
Gantt Chart
GANTT CHART
Week 1
Week 2
Week 3
Week 4
Week 1
Week 2
Week 3
Week 4


Gantt Chart
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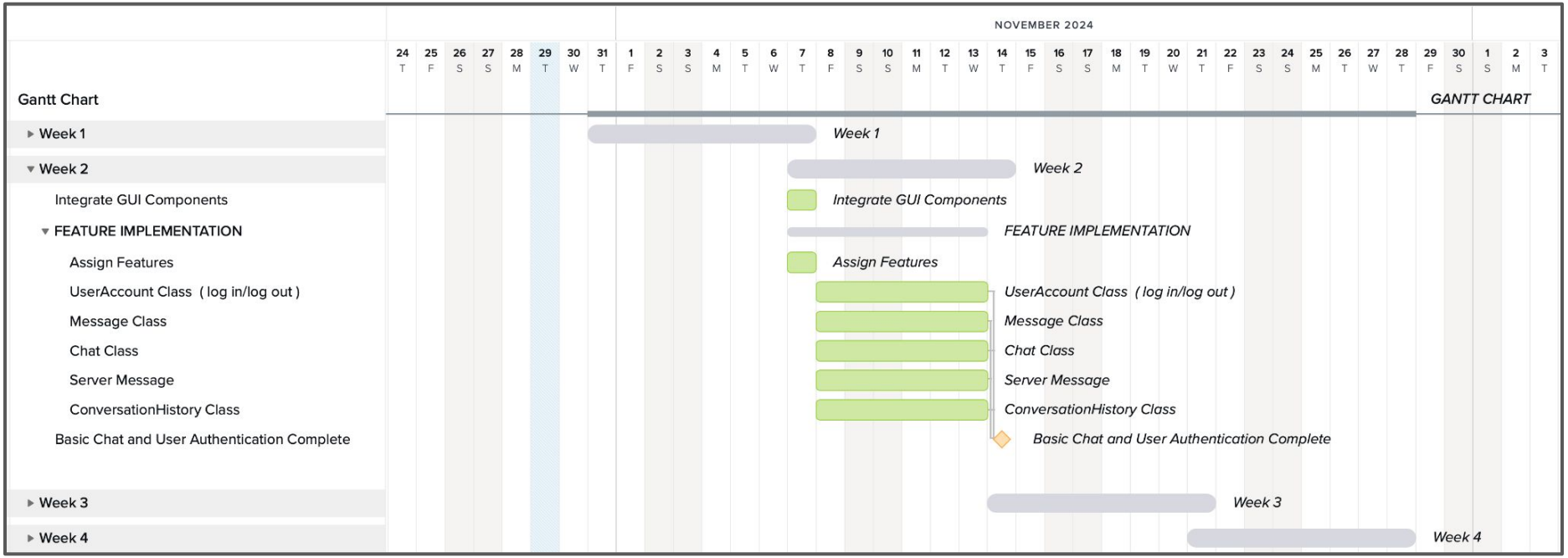
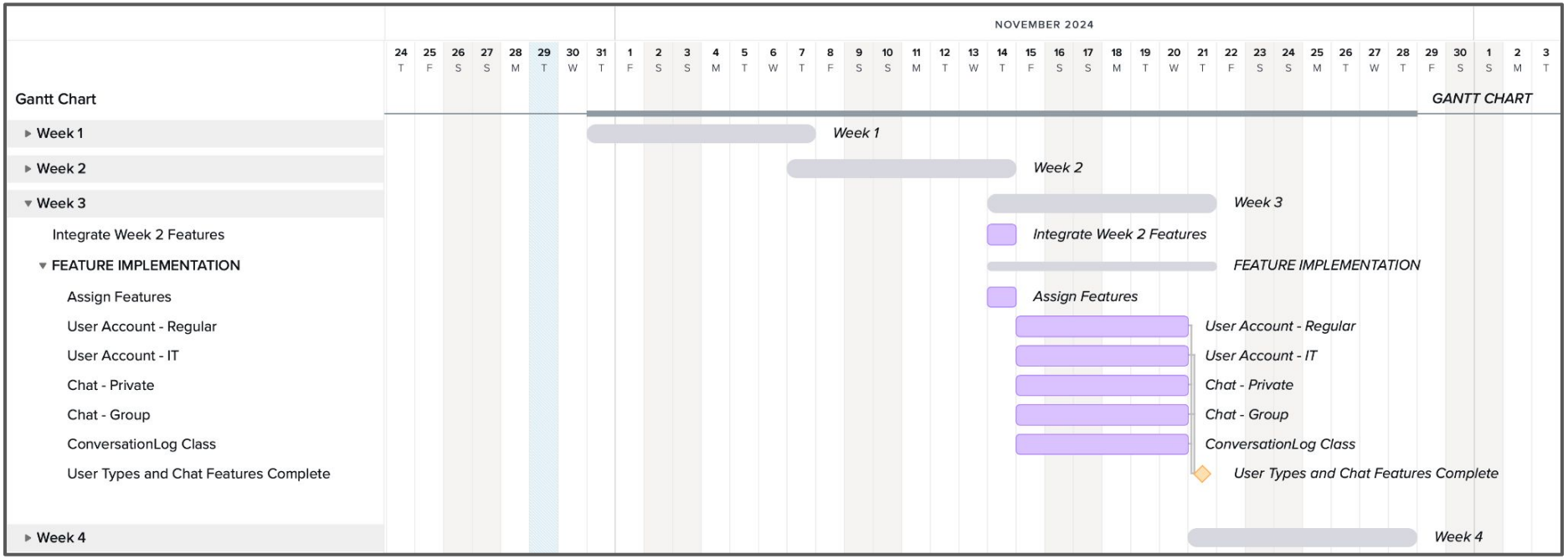
GANTT CHART
Week 1
Set Up Network Infrastructure
Socket Implementation
Connection Handling
Test Basic Connectivity
Network Ready
GUI COMPONENTS
Brainstorm GUI Components
Assign GUI Components
GUI Framework Complete
GUI Component #1
GUI Component #2
GUI Component #3
GUI Component #4
GUI Component #5
GUI Component Creation Complete
Week 2
Week 3
Week 4


NOVEMBER 2024
Gantt Chart
GANTT CHART
Week 1
Week 2
Integrate GUI Components
FEATURE IMPLEMENTATION
Assign Features
UserAccount Class (log in/log out)
Message Class
Chat Class
Server Message
ConversationHistory Class
Basic Chat and User Authentication Complete
Week 3
Week 4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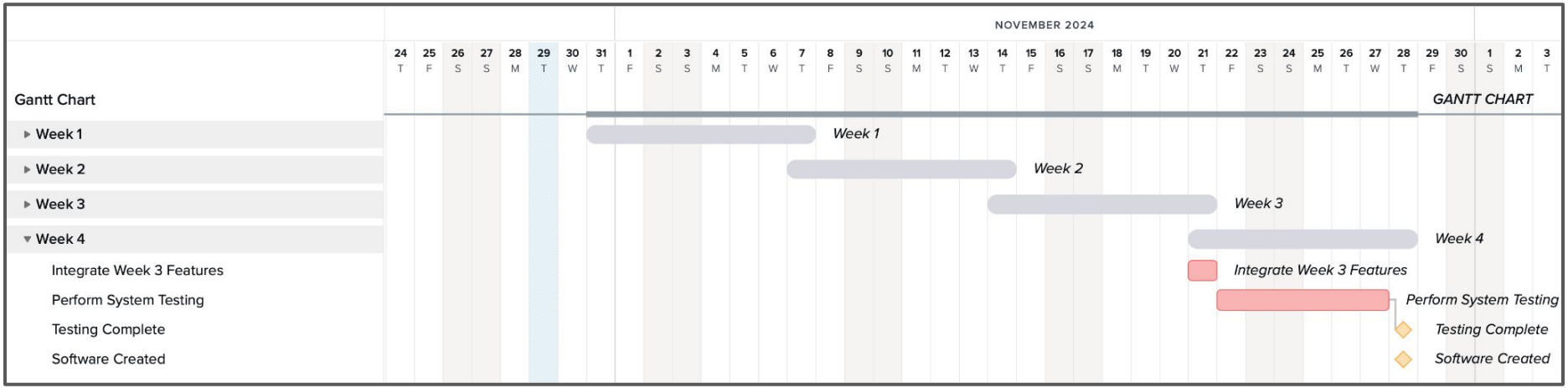
Gantt Chart
GANTT CHART
Week 1
Week 2
Week 3
Integrate Week 2 Features
FEATURE IMPLEMENTATION
Assign Features
User Account - Regular
User Account - IT
Chat - Private
Chat - Group
ConversationLog Class
User Types and Chat Features Complete
Week 4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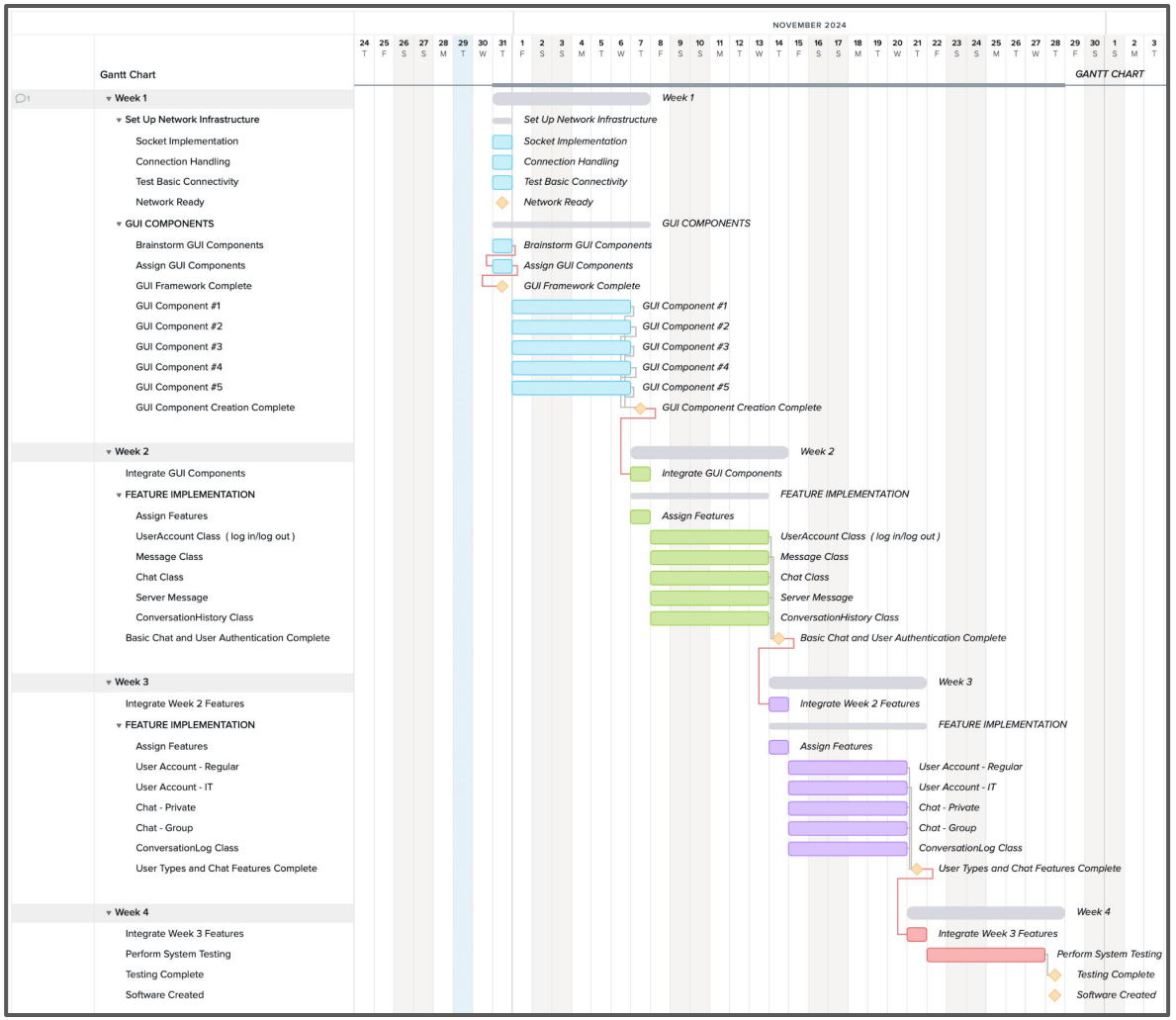
Gantt Chart
GANTT CHART
Week 1
Week 2
Week 3
Week 4
Integrate Week 3 Features
Perform System Testing
Testing Complete
Software Created



WEEK 1
OCTOBER 31 - NOVEMBER 6

- Java Socket Implementation
- Understanding Client-Server Communication
- GUI Design Creation
  - Entire team designs the GUI Layout together
  - Identify the required components
- GUI Component Assignment

TO DO LIST

- ☐ Client Interface Development
  - Login Window Created
    - Username/password fields present
    - Login button functional
  - Main Chat Window Functional
  - Core Client Features
    - Connect/Disconnect buttons work
- ☐ Server Connection
- ☐ Individual Components have been made

WEEK 2
NOVEMBER 7 - NOVEMBER 13

- Components Integration
  - Connect GUI
- Feature Implementation
  - UserAccount (login/logout)
  - Message
  - Chat
  - Server Message
  - ConversationHistory

TO DO LIST

- ☐ Users can login/logout
- ☐ Messages send/receive properly
- ☐ Basic Chat functionality works
- ☐ Server Handles Multiple Clients
- ☐ Messages are stored properly

WEEK 3
NOVEMBER 14 - NOVEMBER 20

- Week 2 Feature Integration
- Feature Implementation
  - UserAccount: Reg & IT
  - PrivateChat: Private & Group
  - ConversationLog for IT

TO DO LIST

- ☐ Different user types working
- ☐ Different chat types working
- ☐ Conversation History viewing works
- ☐ Proper Access Control

WEEK 4
NOVEMBER 21 - NOVEMBER 28

- Week 3 Feature Integration
- White & Black Box Testing

TO DO LIST

- ☐ All user types functional
- ☐ Chat systems working
- ☐ History system operational
- ☐ Acces control Testing

Links

Project GitHub

Meeting Minutes

// Phase 1 Requirements

Group 4: Communications

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