

Development of a Chatting Platform

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8th February 2017

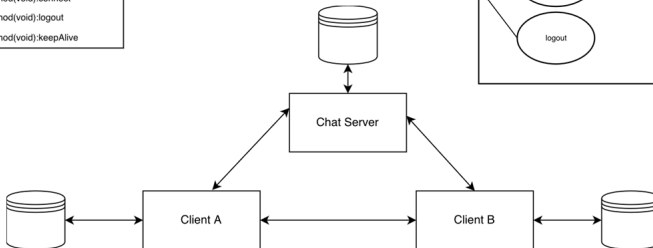
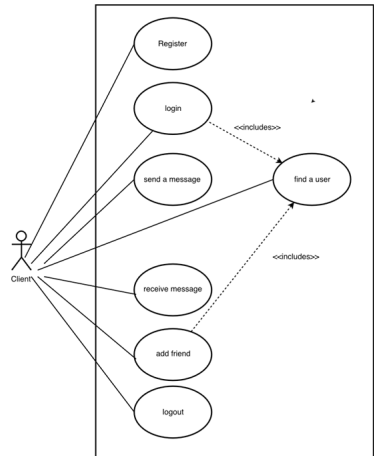


Goals

- Deliver client server application with clients developed for two different domains
- Become proficient in employing testing strategies and methods
- Gain experience collaborating as a team
- Become au fait using version control and collaboration software

Implementation Strategy

- Background research was done on how to implement a client server system/application
- Basic prototype was developed to understand how sockets work etc.
- Team will be split into three sub-teams
 - one team will implement the server in python
 - another team will work on the desktop client
 - last team will work on the android client
- Test plans (unit testing and regression & integration testing)



Timeline - Mandatory Features

Deadlines	Mandatory Feature List
18/02	Send text based messages to one or more users
18/02	Receive text based messages from one or more users
18/02	Secure communication between users
25/02	Search for other users on the server
25/02	User Registration (New User)
25/02	User authentication (Log in/Log out)
04/03	Chat client for mobile
04/03	Chat client for desktop

Optional Features

With accordance to time availability, optional features can be added.

Optional Feature List	
Set Status	Emojis
Send Images or Files	Backup Chat/Chat Log
Set name/Profile Picture	Remove messages
Delete user account	Chat time stamps
Contact List	Customised Chat background

The screenshot shows a Trello board for a 'Chat App' project. The board is organized into five columns, each with a list of tasks and progress indicators (yellow and purple bars). The 'Project' column lists high-level tasks like 'Prepare Project Presentation', 'Final Report', 'Class Diagram', 'Use case Diagram', 'Basic Architecture Diagram', 'Implement Application', 'Create test cases', 'Integration Testing', 'Unit Testing', and 'Deploy to Heroku'. The 'Server side' column includes 'Implement Classes' (0/2), 'Implement Database', and 'Implement Methods' (0/4). The 'Client side' column includes 'Implement Classes' (0/3), 'Implement Database', 'Implement Methods' (0/9), and 'Implement Application Interface'. The 'Android Client' column includes 'Implement Application Interface', 'Implement SQLite', and 'Implement Methods' (0/9). The 'Completed' column shows 'Submit Initial Report'.

Chat App Synomilia ☆ Team Visible

Project

- Prepare Project Presentation
- Final Report
🕒 Mar 31 📅 0/7
- Class Diagram
👤 1
- Use case Diagram
👤 1
- Basic Architecture Diagram
👤 1
- Implement Application
- Create test cases
- Integration Testing
- Unit Testing
- Deploy to Heroku
- Add a card...

Server side

- Implement Classes
📋 0/2
- Implement Database
- Implement Methods
📋 0/4
- Add a card...

Client side

- Implement Classes
📋 0/3
- Implement Database
- Implement Methods
📋 0/9
- Implement Application Interface
- Add a card...

Android Client

- Implement Application Interface
- Implement SQLite
- Implement Methods
📋 0/9
- Add a card...

Completed

- Submit Initial Report
- Add a card...

Working Together as a Team

- Initial kick-off meeting and general brainstorming
- Physical meetings are held every Tuesday at 5pm
- Development meetings will be organised at periodic intervals
- Skype/virtual meetings will be organised on-demand
- WhatsApp group for instant communication

Conflicts Resolution

Peer assessment: equal distribution of marks

Few of the potential sources of conflicts could be:

- Difference of opinions on prioritization
- Technical and design disagreements
- Disagreements on schedule or timeline
- Lack of consensus on unified process methodologies

Few solutions that we expect to adopt are:

- Mutual cooperation and taking ownership of any proposed idea
- Having a consensus on the decision taken by the group and abiding by it