

CS5500 : Managing Software Development

Team 105: Chat Application Demo

Team 105 Members

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System Functionalities : Major Highlights

- Private messages
- Group Messages
- End to end encryption
- Public Private groups

System Functionalities : Major Highlights

- Persistence of Groups/Messages/Users
- Group admin related functionalities
- Translation of the messages

Why our product?

- Simple Chat Messaging application
- Maintains user data privacy
- Internationalization
- Profanity filters
- Intuitive command line base UI

Product Deliverables

- Backlogs Promised
- Backlogs Delivered
- Stakeholders Satisfaction
- Continuous stakeholder feedback

Teamwork

- Highly cohesive and organized from the start
 - Team grew from 4 to 5 Members
- No major conflicts between members
- Smooth transition of SCRUM Master Role
- High level of output per Sprint

Teamwork

- Each Sprint was highly organized
- Well defined and frequent Meetings
 - Initial Goals
 - During Sprint
 - Post Sprint debrief

Teamwork - During / Post Sprint

- Sat down with teammates to have multi hour group coding sessions during every Sprint
- Every member had input for all final decisions
- Ideas were challenged and defended
- Discussed how we could improve for next Sprint

Lessons Learned

- Start early, and prepare to fail often
 - Started earlier past Sprint 1
- Document issues, and address them promptly
 - Corrected in subsequent Sprints, PSRs were very helpful

Lessons Learned

- Important to be reasonable with stakeholders
 - Don't overpromise
 - Always deliver more
- Give priority to stakeholder wishes

Quality

- Detailed design discussions
- Highly structured branch naming scheme
 - “INITIALS-MSD105SP19-#”
- Branch easily tracked to developer
- All code thoroughly reviewed before merging

Quality - Code Coverage



Quality

- Code was always tested and well documented
- Used Smart-Commits
- Always integrated with JIRA
- Few remaining code smells, justified

TECH TRANSFER

- The system that we developed can be successfully handed over to client.
- It permits user to create a group, add members in the group and promote existing user to admin role.
- On individual level two users can exchange messages to each in a secured mode.

FUTURE SCOPE

- Nuntium in its current console form suffices all basic functionalities.
- It also has potential for more enhancements
- The future scope includes developing an GUI for system.
- With availability of more robust infrastructure and resources we can make system more scalable.