Slack++ Team 207

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Project Inception

- Prattle & Chatter
 - Broadcast to all
 - Barebones Instant Messaging
- Facilitate Communication among large number of users with additional unique functionality

Supported Functionality

- Login & Registration
- Group Messaging
- Moderator Control
- Direct Messaging
- Notifications
- CALEA Support
- Translations

Login and Registration

- Persisting Accounts
- Secure Accounts
 - Encrypted Passwords
 - BCrypt

Messaging

- Messages Persist through database
- Message Queueing
- Message Recall

Group Messaging

- User-defined groups
- Added Security

Direct Messaging

- One-on-one
- Friends

Moderator Control

- Control & Manage Members
- Leave and 86

Notifications

- Be alerted when something requires attention
 - Unread messages, invites, friend requests
- Automatic or On-demand
- Keep track of Read or Unread
- Do Not Disturb Mode

CALEA Compliance

- Special accounts for Authorities
- Unique Wiretap Command
 - Monitor all messages that involves a user
 - Specify Timeframe
 - Group, Direct, Recalled

Additional Features

- In-app Translations
 - Translate messages to another language
 - Google Cloud API
 - Autodetects starting language
- Parental Controls
 - Censors inappropriate language
 - Controlled by Users

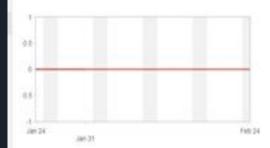
Technology

- Backend: Java 8, JDBC
- Testing: JUnit 4
- CI/CD: Jenkins
- Build Automation: Maven
- Quality: SonarQube
- Cloud Hosting: Amazon Web Services
 - o EC2
 - MySQL RDS

Sprint Breakdown

- Sprint 1: Design and Testing
 - UML Diagrams
 - Merge Prattle to Master
- Sprint 2: Foundational Architecture & Database
 - Group Messaging
 - Database Setup
 - Elastic Cloud Compute
 - Amazon RDS
 - Direct Messaging

Sprint 1



Status Report

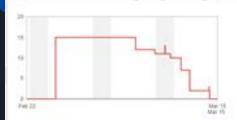
" Issue added to sprint after start time.

Completed Issues

View in Issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (-)
MS02075P19-1 *	Use Case Diagram Creation	☑ Task	† Medium	DOWS	39
MSD2075P19-2*	Write up Software Requirements	₹2 Task	† Medium	DONE	,
MSD2075P19-3*	Unit testing	☑ Tirsk	† Medium	DOME	
MSD2075P18-4 *	Class Diagrams creation	☑ Task	† Medium	DOME	

Sprint 2



Status Report

" Issue added to sprint after start time

Completed Issues

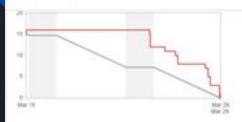
View in Issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (19)
MS02075P19-6*	Display Active Users	☐ Story	* Medium	post	1
MS0207SP19-7*	Set up Deployment to AWS	□ Story	# Medium	DOM	3
MS0207SP19-8*	Database EER Diegram	Story Story	* Medum	powe	1001
MS02075P19-9*	Set up local database	□ Story	* Medum	DOME	2
MS02075P19-10*	Set up production level detabase	□ Story	* Medium	bowl	1
MS00075P18-11*	Create and Join groups	Story .	* Medum	bowl	5
MS0207SP19-34 *	Documentation of Setting up Database	□ Story	† Medum	DOME	1
MS02075P19-37*	Direct Mossaging Between Two Users	☐ Striny	† Medum	bowl	2
MS02075P19-40 *	Falling tests on Maven, but not in Intellig	□ Bug	* High	DOME	2
MS02075P18-41*	Help Command	☐ Story	* Medium	power	1

Sprint Breakdown

- Sprint 3: Communication Requirements
 - Moderator abilities
 - Friending Users
 - Notifications
- Sprint 4: Additional Features
 - Additional Moderator Capabilities
 - Search & Recall
 - Refactoring
 - Do not Disturb
 - Translations
 - Parental Controls

Sprint 3



Status Report

* Issue added to sprint after start time

Completed Issues				 Were in those nevigetor

Key	Summary	Issue Type	Priority	Status	Story Points (15 16)
MS02075P19-15	Group Moderator	□ Story	† Medium	DOME	1
MS0207SP19-17	Group inviting	☐ Story	† Medum	60W8	2
MSQ207SP19-18	Kicking group members	Story	† Medium	0048	1
MSC2075P19-19	Friending Users	☐ Story	† Medium	DOM	2
MSC007SP19-26	Save Mossages to Detabase	Story	† Medium	DOME	2
M502075P19-38*	Add userid to Message	Story	T Medium	DOME	1
MS02075P19-43	Notifications Architecture	☐ Story	† Medum	DONE	3
M50207SP19-44	Translators	Story	† Medium	DOME	-1
MS02075P19-45	Update DMs to work with DB	☐ Story	† Medium	(60M)	2
MSD2075P19-46	Update Group Messages to work with DB	☐ Story	† Medium	DONE	1
MS0207SP19-49*	Tests issues with IMConnection	□ Bug	7 Medium	00ME	

Sprint 4

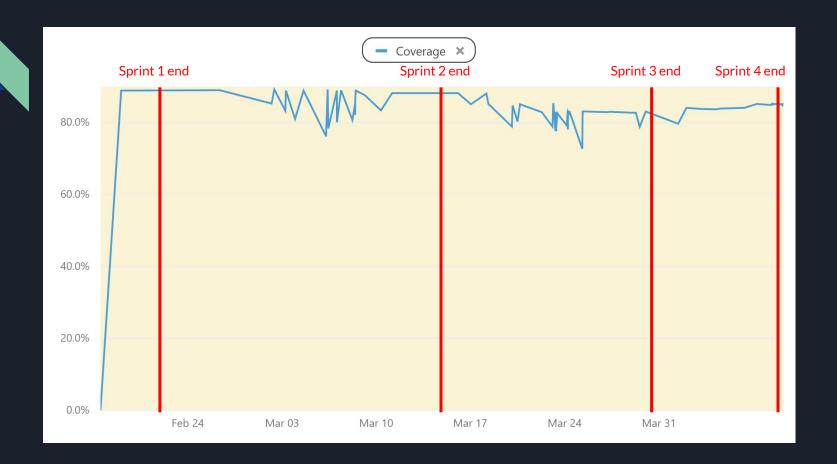


Status Report

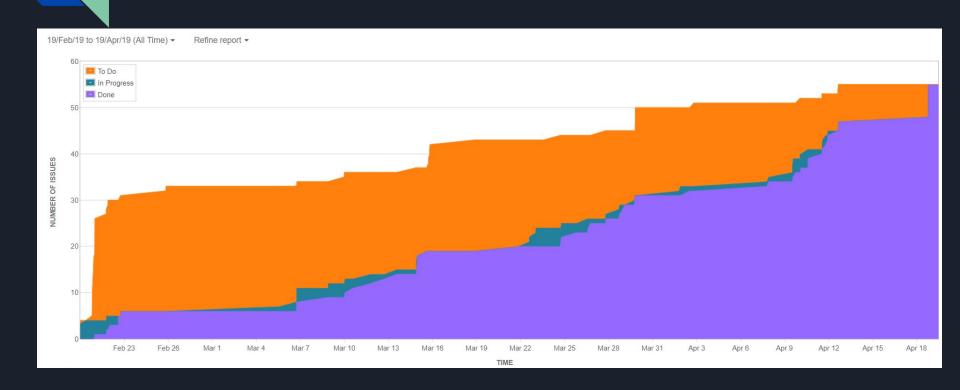
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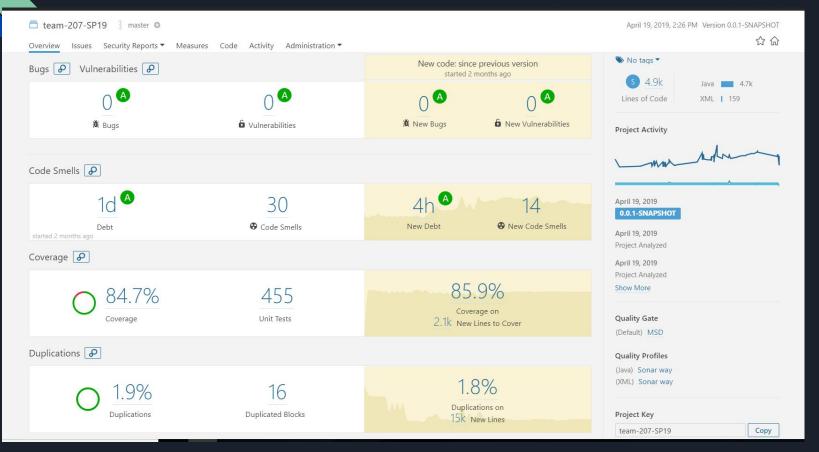
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MS0379P19-16	Bling a Group	□ Story	* Medium	(Street)	2
MICOCTSP16-22	Optional Group Chat Plansevorts	☐ Story	4 Lee	(6006)	1
ASCOURTS 26	De Net Disturb Words	□ Story	† Medium	(1000)	. 1
MISCOS/SP19-36	Special Constroint Printages	□ Story	* Medium	DOM:	3
MSQ/S/SP19-27	Deleting a Sent Message	C tray	* Medum	(6046)	2
MSD3579P16-47	Seech years	□ Story	† Medium	(999)	
MISCRITIFIES .	Updating Modurator	O Story	* Medium	0000	
MSCOSTSP19-GZ	Tomore see	O Blocy	* Median	boise.	- 2
MISCORTIFFICATI	Gystes Circle	CI face	T Mellum	(6000)	
MS00079P19-54	Inglement transactions in stored procedures	S face	* Medium	3046	
MICOCTOPHEN	Random hanging	□ Deg.	† Median	(606)	
MSQXSTSP19-84	DV Gurving	☐ See	* Medium	9096	
MICOSTRP19-64*	Add Tests For Previous Sprins	S Text	* Medium	NAME .	C=8
MSQUSTSPT9-68*	Foliable Commands out of Frattle	C Said	* Median	1000	1-8
MSC0979P15-681	Add Constants for All Hard-coded Strings	(S) Tests	† Medium	1000	
MICORDIFICAL.	Code Cleanup (Code smells and JavaCles):	S last	# Median	0000	1-8



Ticket Progress

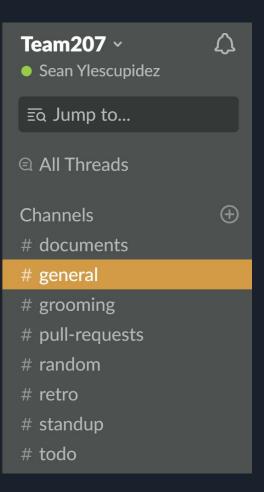


Quality Metrics



Process and Teamwork

- Team Slack
 - Daily standups
 - Constant communication
- Sprint Planning Meetings
 - PlanITPoker
- In-person meetings
 - Quality Assurance
 - Mentoring and cooperation
- Recognizing Shortcomings
 - Sprint Retrospectives



Ready and Useful for the Client?

- Functionally, yes
 - Multiple Features covering Core Use Cases
- Otherwise, probably not
 - The UI is most important
 - Commandline Interface not attractive
 - Availability and Operations

Moving Forward

- Improve the UX
 - Design a GUI for the Client
 - Distributable Client
- Cloud Architecture
 - Autoscaling Groups
 - Load Balancers
 - RDS Replicas
 - Backups
- Additional Features
- System Testing

Thank You!