



Northeastern University Slick Communication

CS5500 – Managing Software Development

Fall 2018

Team - 105

SYSTEM FUNCTIONALITY

System actors

- Admin:
 - Assign roles to users
 - Authority over wiretap requests
 - Liberty for advanced message search
- User
 - Join and leave groups
 - Direct messaging to users and groups
 - Recall messages
- Agency
 - Ability to wiretap user and group upon approval

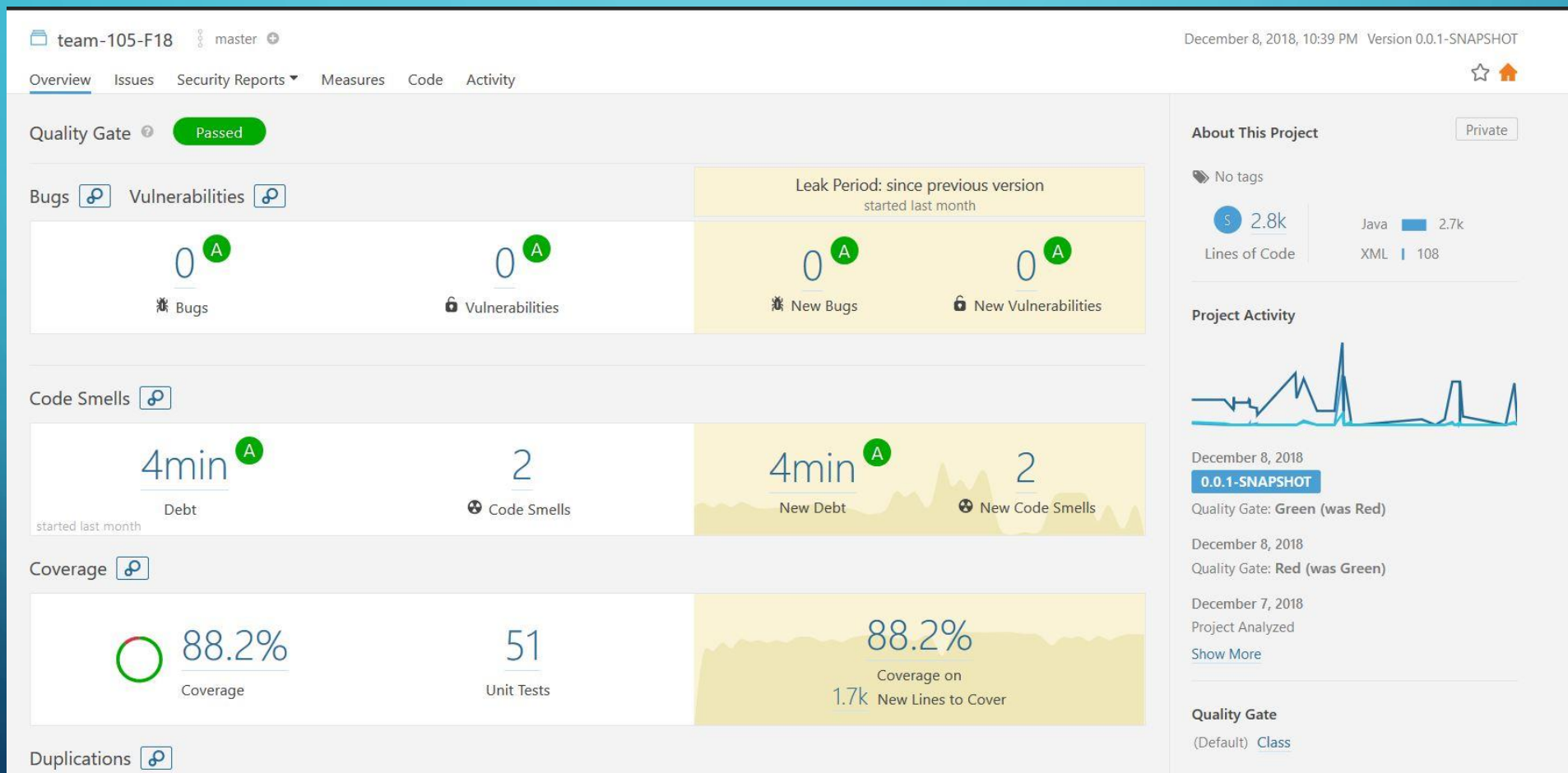
ADDITIONAL SYSTEM FUNCTIONALITIES

- Message and entity persistence using Relational Data Base Management System
- Implementation of MD5 Hashing for encryption of passwords
- Adhered to CALEA rules and regulations
- Queuing messages for an offline user
- Utilized Mutual Information for parent control
- MIME

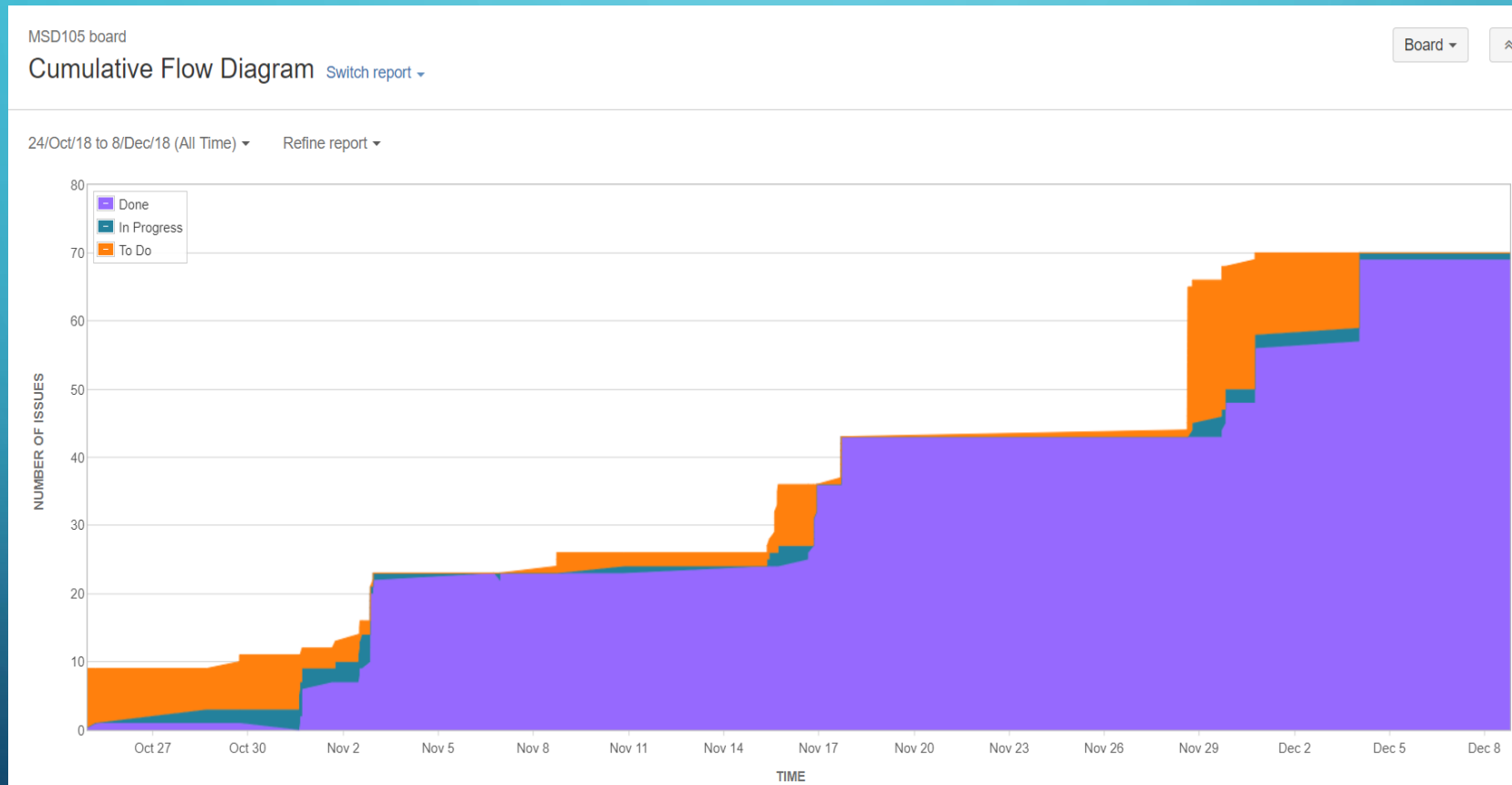
JOB QUALITY

- Integration of Slack with GitHub and Jenkins
- Automation of Slack messages for successful, failed integrations and critical issues detected by the server
- Use of smart commits
- Peer review for PR
- Code quality analysis via SonarLint and SonarQube
- Jira tickets for to-do's, bugs and functionalities

STATISTICS



JIRA STATISTICS



TEAM-WORK

- Well structured and properly divided tasks
- Accommodating team with good communication
- Responsible and reliable
- Achieved the goals with team work

PROCESS

- Used agile methodology
- Deployment and development over 3 sprints
- Prioritized issues
- Features discussed and assigned for each sprint
- Proper coding practice and implementation of design patterns
- Daily SCRUM meetings to discuss the status and requirements

SHORT COMINGS

- AWS integration failure due to security conflicts, fixed with the help of system administrators and TA's
- Missed a TEAMMATES review and since then the team made sure everyone submits on time

TECHNOLOGY TRANSFER

- Clone the project using the command

git clone <https://github.ccs.neu.edu/cs5500/team-105-F18.git>

- It contains two packages “Chatter and Prattle”
- Create a jar for the package Chatter and run the jar
- Prattle is the server that is deployed on AWS
- Enter the IP 100.26.75.93 and port 4545 as the arguments while running the chatter jar file
- If needed, create a jar for Prattle by running “mvn clean install” and deploy the jar in a cloud of your choice and replace the IP accordingly

FUTURE DEVELOPMENT

- Ability to login using email/phone number via two layer authentication
- Plugins to extend the functionalities like enabling chat bots
- Video and audio sharing
- Ability to block unwanted communication server-side

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Thank You!