

# BOWSHOT

Team 9 / CS5500

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# ***Functionalities Implemented***

- Hosted on **AWS** auto-deployment
- Two Message Types:
  - Direct Messaging (**DMs**, 1:1)
  - Group “**Channels**”
- User Profiles have **custom Avatars & Bios**
- User & Message **Permanence**
- Security: **Limit** number of user's **failed login attempts**
- Channel **Moderators** have enhanced privileges
- Channel navigation - **searching** & joining
- Message **timestamps**

# ***Back- & Front-End Tech Stack***

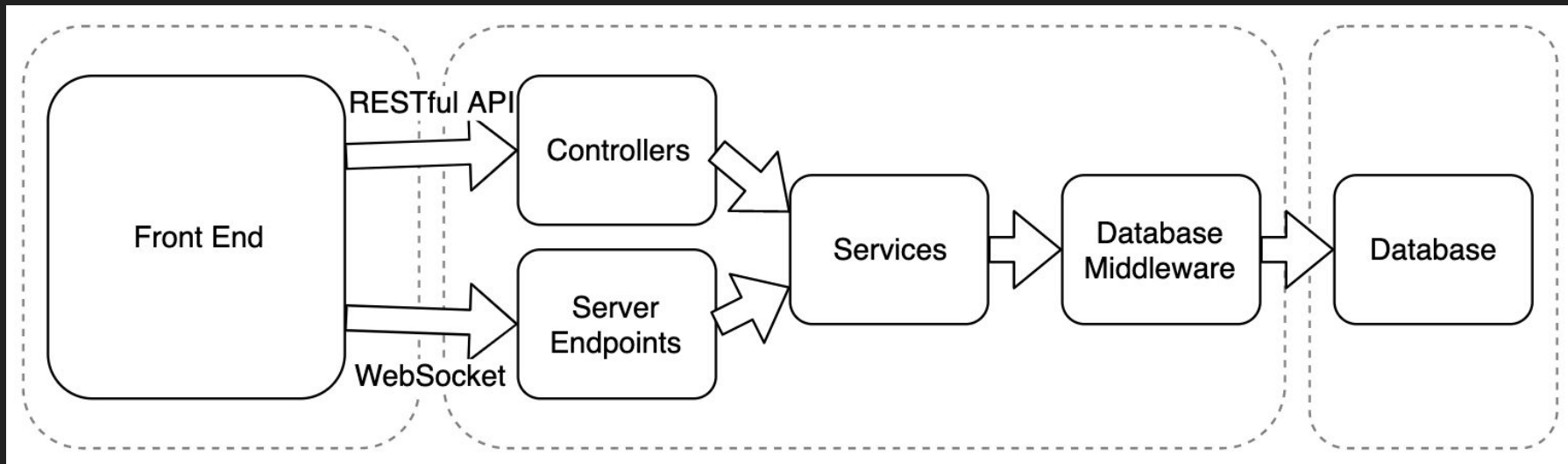
## Base stack

- Jenkins
- Tomcat
- Postman
- Mockito
- Java

## Custom stack

- AWS
- MySQL
- Hibernate
- Gson
- JavaScript
- JS Libraries

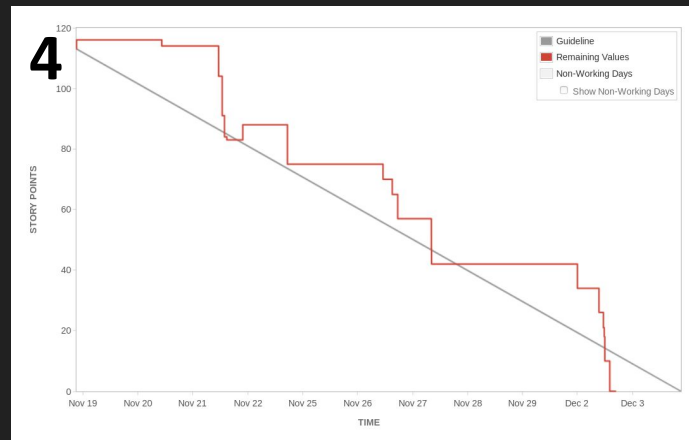
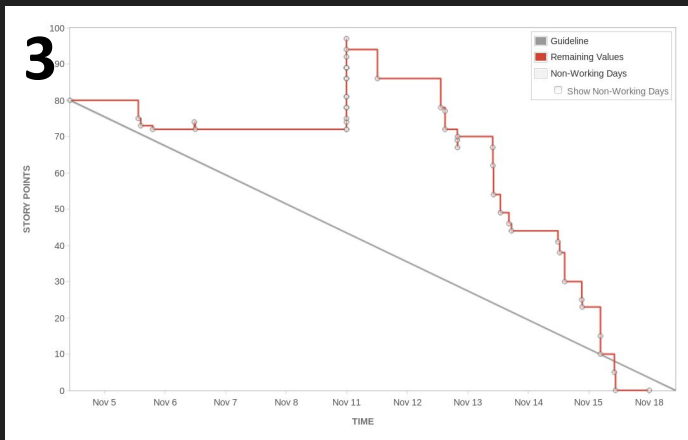
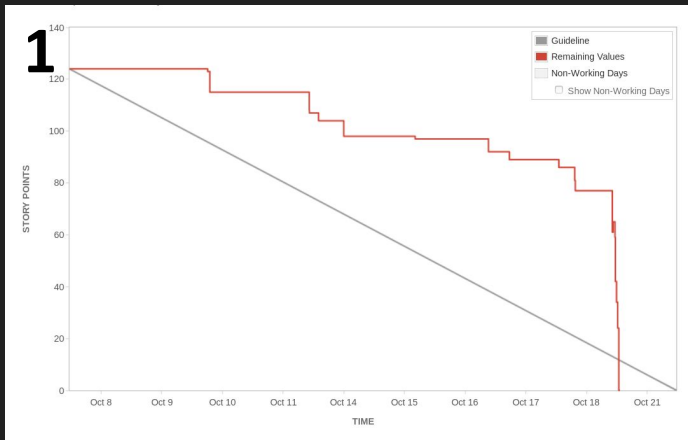
# Dataflow



# Team Agile Workflow

- Most significant challenge: unexpected team-member downtime. We overcame this by being **flexible** and **re-distributing tickets** as needed.
- We used several tools to enhance our productivity:
  - **Jira**: **Story points** to reflect ticket complexity & keep a pulse on progress
  - **Slack**: Constant communication, **stand-ups**, and general collaboration
  - **Github**: **Continuous integration** kept the team aligned and involved
  - **Google Meet**: **Remote** group screen sharing and **conferencing**
- Our different **backgrounds** & areas of **expertise** were complimentary, and we all grew as engineers

# Burndown



# UX/UI

- Started from wireframes, then mocks
- Sketch + plugins to export and share designs
- Attention to WCAG accessibility standards
- Many small improvements to enhance UX along the way
  - Different pane for 'create account' section
  - Clicking 'enter' to send a message
  - Aligning messages from the logged in user to the right
  - Automatic scroll to bottom of message pane
  - Several cues to show who the active recipient is (never accidentally message the wrong person/group!)

# UX/UI

Username	Password	<b>Connect</b>
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New? Create an account to start chatting now.

Username	Password
First Name	Last Name
Email Address	ASL?

**Submit**



# BOWSHOT

Username

Password

**Sign In**

Create Account



# *Mobile Compatible*

Mobile browser interface showing a login page for BOWSHOT.

Header: Done Not Secure — ec2-54-145-147 AA ↻

Page Title: BOWSHOT

Form Fields:

- Username:
- Password:

Buttons:

- Sign In
- Create Account

Bottom Navigation Bar: < > ↗ 📍

# *Handover*

Our project is **ready to be handed over to you.**

- All the documentation you need
- Clear MVC design pattern & organized file structure
- We continuously refactored and improved as we built; our code is as clean & crisp as our design is

Next steps:

- The project is ready for more **advanced messaging features**, such as rich text, ability to send files, and ability to queue messages

***Live Demo***

***Questions?***

THANK  
YOU