

Ricardo Wu

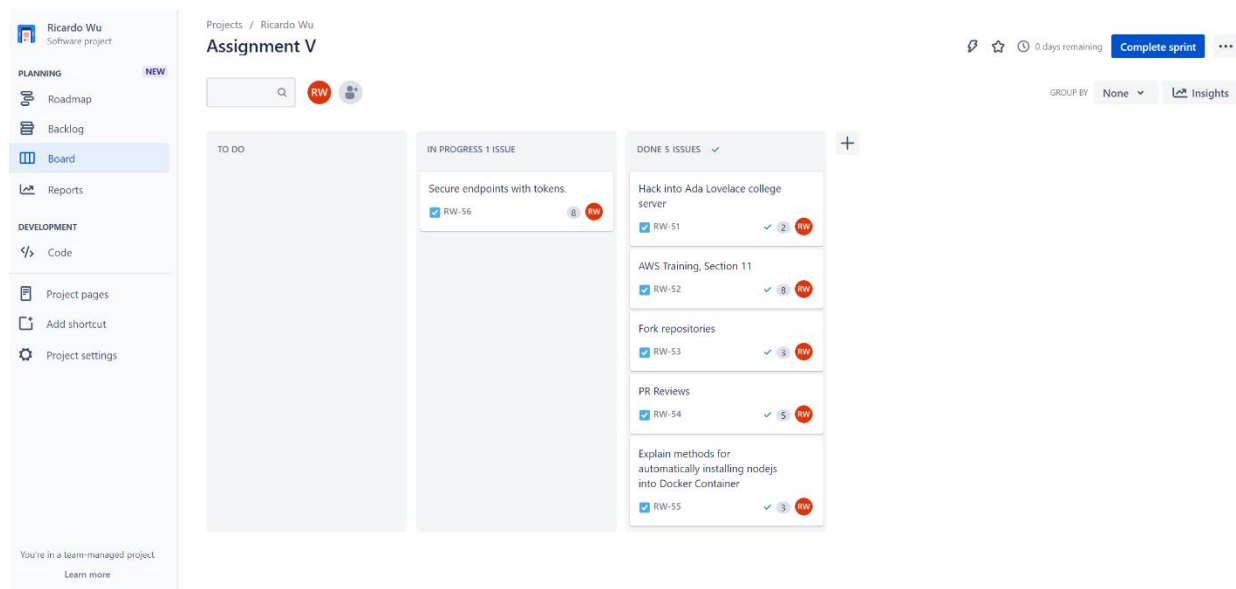
2/6/2022

CS 561

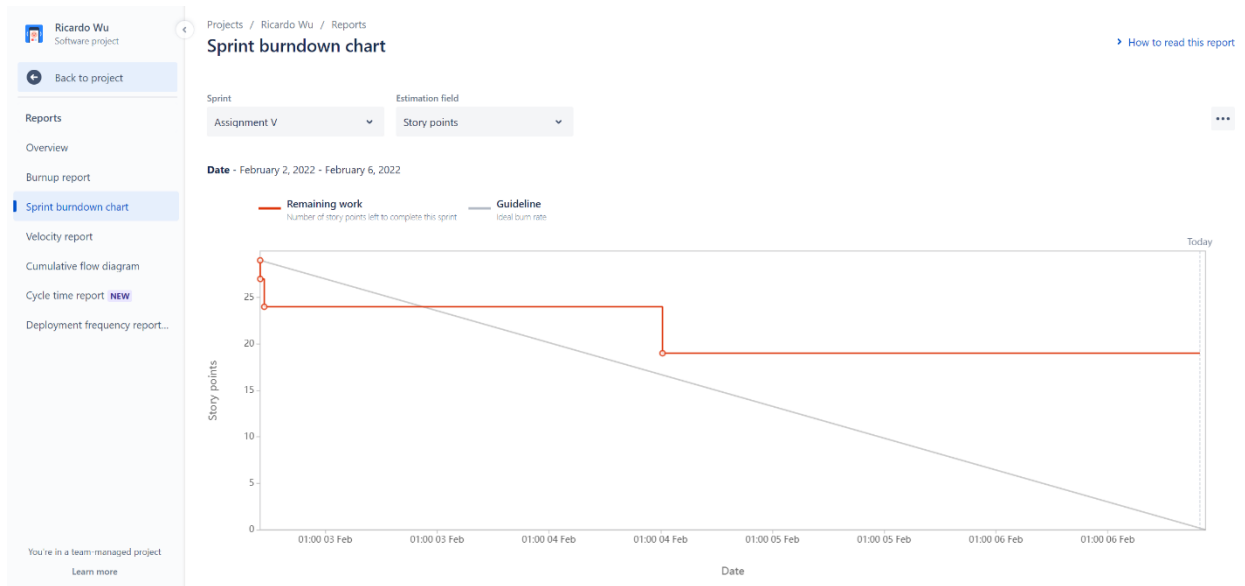
Prof. Braynen

## Week 5 assignment

### Scrum Board:



### Burndown chart:



## AWS Training:

DigitalCloud Training Pricing Cheat Sheets Free Resources About Challenge Labs

Section 11 OF 16

### Section 11: Serverless Applications [1hr 30m]

Take Notes

100% Complete 20/20 Steps

Section Content	Progress
Section 11 - Introduction	100%
Serverless Services and Event-Driven Architecture	100%
AWS Lambda	100%
[HOL] Create Simple Lambda Function	100%
Application Integration Services Overview	100%
Amazon SQS	100%
Amazon SNS	100%
[HOL] Simple Event-Driven App	100%
AWS Step Functions	100%
[HOL] Create a State Machine	100%
Amazon EventBridge	100%
[HOL] Create Event Bus and Rule	100%
Amazon API Gateway	100%
[HOL] Simple REST API	100%
[HOL] Web App with HTTP API	100%

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Section 11: Serverless Applications - 20 Lessons

- Section 11 - Introduction
- Serverless Services and Event-Driven Architecture
- AWS Lambda
- [HOL] Create Simple Lambda Function
- Application Integration Services Overview
- Amazon SQS
- Amazon SNS
- [HOL] Simple Event-Driven App
- AWS Step Functions
- [HOL] Create a State Machine
- Amazon EventBridge
- [HOL] Create Event Bus and Rule
- Amazon API Gateway
- [HOL] Simple REST API
- [HOL] Web App with HTTP API

Section 12: Databases - 31 Lessons

Section 13: Deployment - 18 Lessons


Section 14: Monitoring, Logging, and Alerting - 16 Lessons

## Ada Lovelace College server:

## Free Password Hash Cracker

Enter up to 20 non-salted hashes, one per line:

These are sasha's credentials and passwords

☐ 我不是機器人  


Supports: LM, NTLM, md2, md4, md5, md5(md5\_hex), md5-half, sha1, sha224, sha256, sha384, sha512, ripeMD160, whirlpool, MySQL 4.1+ (sha1(sha1\_bin)), QubesV3.1BackupDefaults

Hash	Type	Result
notasha@mail.ru	Unknown	Unrecognized hash format.
jimmy.deand@gmail.com	Unknown	Unrecognized hash format.
akarino@kinnesota.edu	Unknown	Unrecognized hash format.
randers@yahoo.com	Unknown	Unrecognized hash format.
sasha@s.sdlovelace.edu 8cfe2bd361a135b622d2d23bc2ab3258c14e9d89	Unknown	Unrecognized hash format.
a7ee8cb6e87492cc3d6bf07e1c387cc8045b4177	sha1	hello5
82e4cc8ecf6ad2012755be2fe45ead73d055f90a	Unknown	Not found.
c473a102f4e4f708427361e9c45815c2051b642	Unknown	Not found.
eb9062b08c649ae77c3f577205d7f8cad687fec	sha1	@funkyboots

Color Codes: Green Exact match, Yellow Partial match, Red Not found.

[Download CrackStation's Wordlist](#)

The orange-and-black terminal window below will probably not show up on a smartphone. (Have not tried on a tablet.) So you might have to use a laptop (e.g. your macbook) or desktop for this one.

```

Welcome to Ava Lovelace College's Computer Science FreeBSD server.
username: sasha
password:
Congratulations! You have successfully logged in.
$ ls
Haha take it easy. This is just a prop.
    
```

5 links of merged pull requests (PRs):

- Warm-up PR: <https://github.com/WisleyDoma/weather-backend-RW/pull/2>
- v1/auth PR, with token & expr. date: <https://github.com/WisleyDoma/weather-backend-RW/pull/3>
- v1/weather & v1/hello PR, with token & expr. date: <https://github.com/WisleyDoma/weather-backend-RW/pull/4>
- Swift client PR: <https://github.com/WisleyDoma/cs561-swift-client-RW/pull/1>
- Rust client PR: <https://github.com/WisleyDoma/cs561-rust-client-RW/pull/1>

Difference between Dockerfile & Docker-compose (about auto installing node.js):

Dockerfile is a .txt file for users to initialize docker. It could auto-install node.js by typing **RUN apt-get install nodejs**. However, it only builds one docker at a time and dockerfile requires users to be proficient in commands since dockerfile doesn't have image; Docker-compose is a .yaml file that could launch multiple dockers with images. It's easier for novices to get into Docker. When it needs to auto-install node.js, users could type **command: bash -c "apt-get update && apt-get install nodejs"** beneath the environment segment.

I prefer to use docker-compose because it helps us to practice scenarios where server and clients set in different places. Another perk is users could download docker image from docker hub. It's more convenient for users than memorizing commands for different clients' environment.

## References:

Difference between Dockerfile & Docker-compose:

<https://stackoverflow.com/questions/29480099/whats-the-difference-between-docker-compose-vs-dockerfile>

What is Dockerfile | How to create and build a dockerfile | Dockerfile basic commands:

<https://youtu.be/LQjaJINkQXY>

What is the difference between dockerfile and docker-compose.yml files?

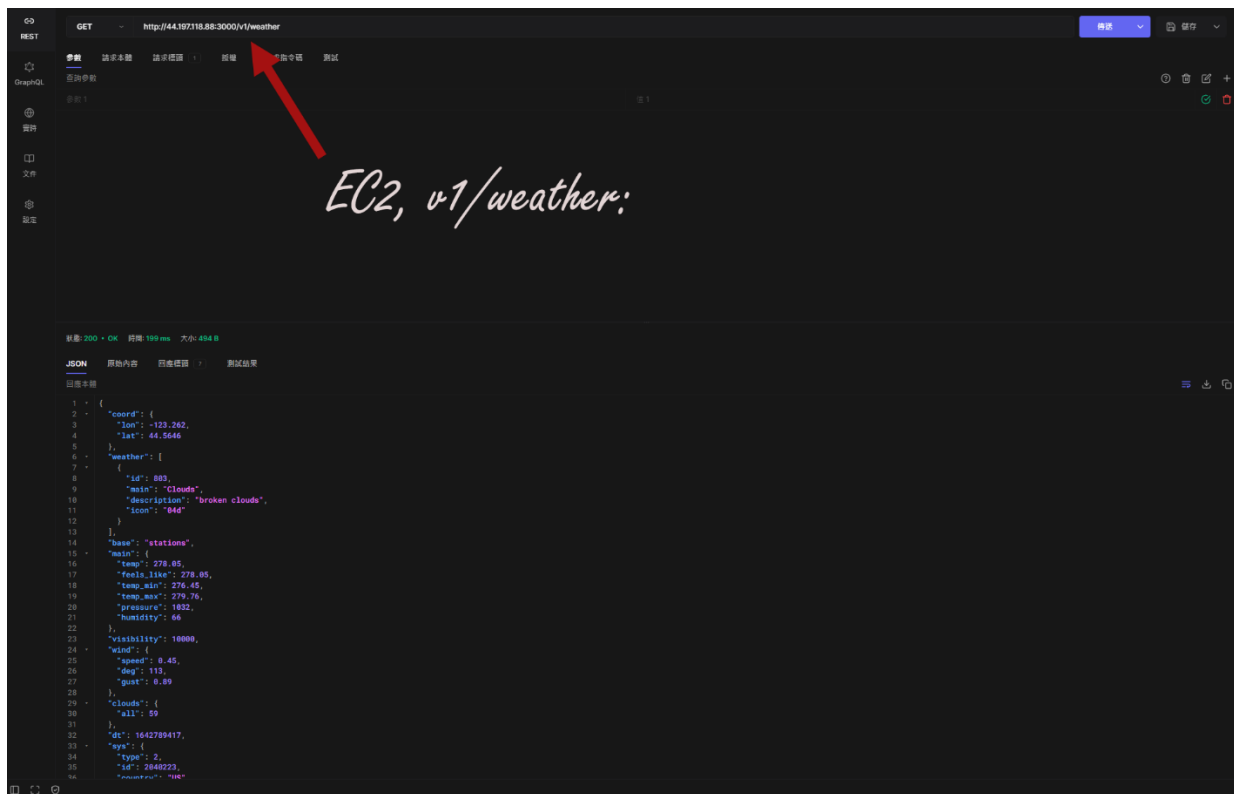
<https://youtu.be/BIX26GThQPQ>

## 2 links of updated swagger doc:

- a. GitHub: <https://github.com/WisleyDoma/weather-backend-RW/pull/5>
- b. EC2 (Elastic Computing Cloud):  
ec2-44-197-118-88.compute-1.amazonaws.com  
(IP address: 44.197.118.88) – closed to prevent additional charges.

Examples:

EC2, v1/weather:



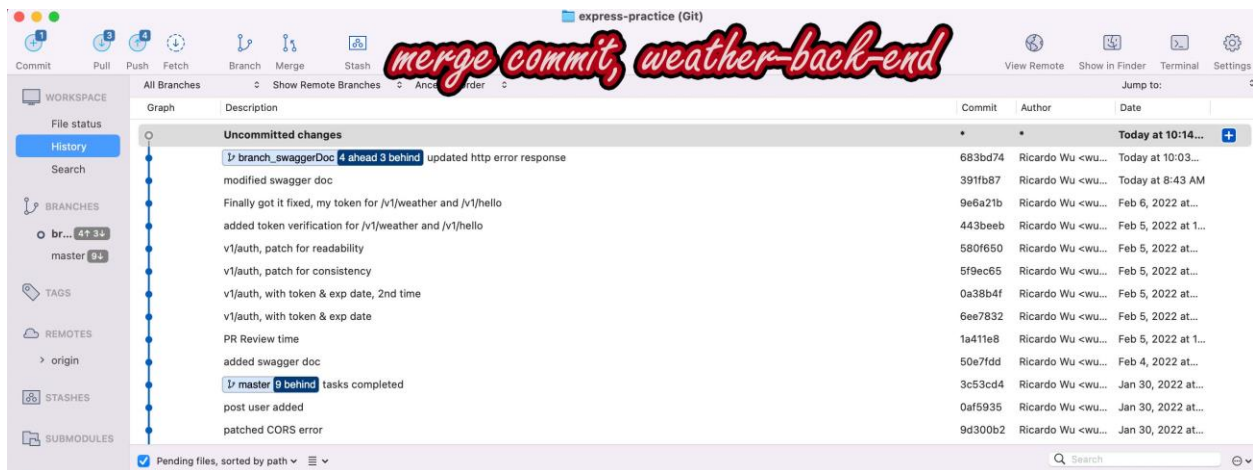
EC2, v1/hello:



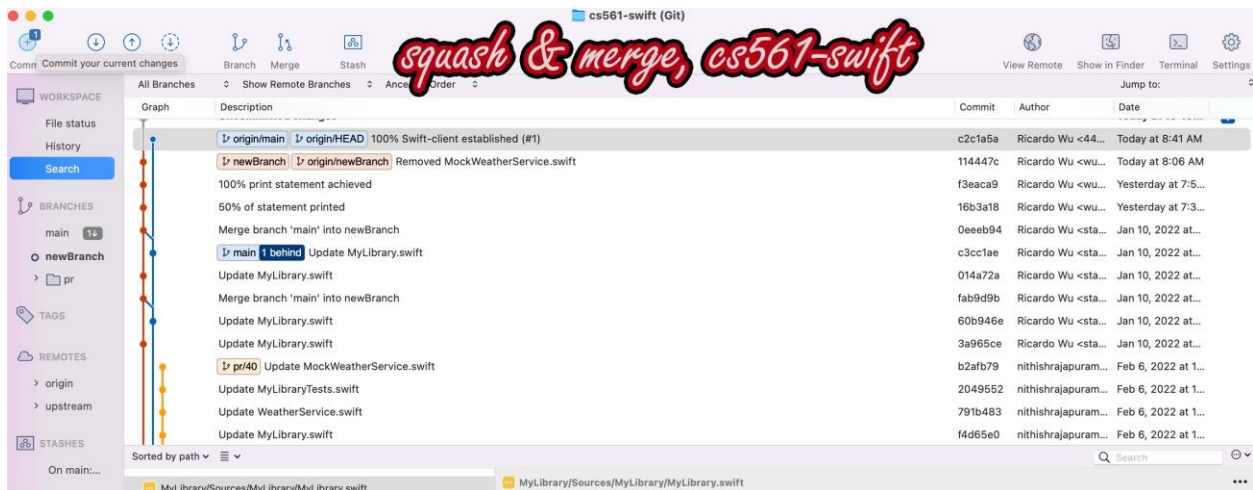
(IP address: 35.170.69.145) – Opened to add v1/auth screenshot.

EC2, v1/auth:

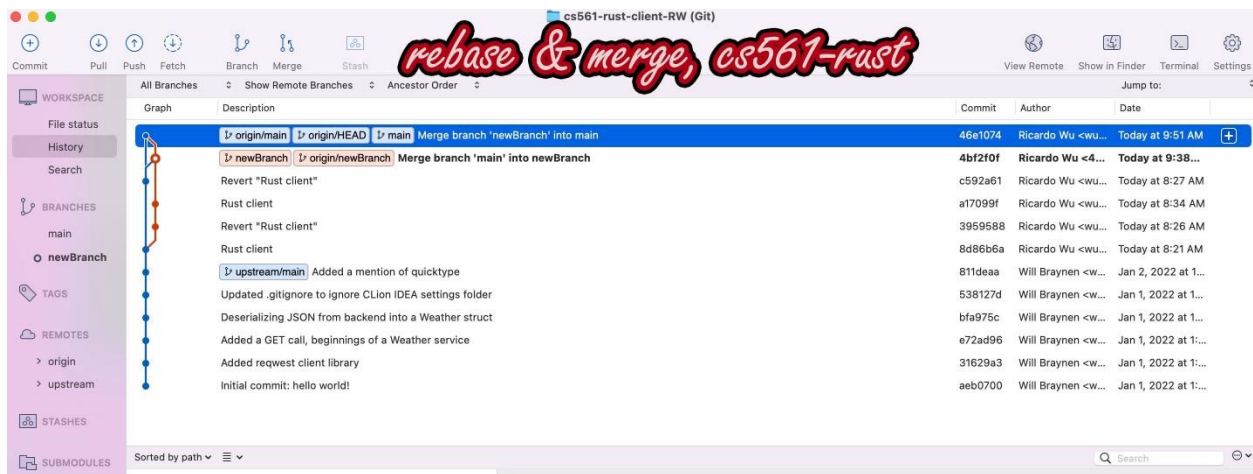
“Create a merge to commit”, “squash and merge”, and “rebase and merge” buttons:



The merge commit is good for new git users and small projects. It’s easy for users to examine their every commits.



The squash and merge makes each merge concise. It is because a merge contains every single commit in there, creating a better readability of merges. It is good for projects that have multiples teams (i.e. different companies) to work on.



The rebase and merge makes previous commit and parent commit every time it rebases. It helps users to keep track of sections of project, to help them to which part is done and which part is not. It benefits for projects that has a small team (5~7 people).

Personally, I prefer the rebase and merge because it helps me to keep track of projects progress.

## References:

Squashing Your Pull Requests:

<https://cloudfour.com/thinks/squashing-your-pull-requests/>

Introduction to Git rebase and force push:

[https://docs.gitlab.com/ee/topics/git/git\\_rebase.html](https://docs.gitlab.com/ee/topics/git/git_rebase.html)