

COMSE6156 - Topics in SW Engineering: Cloud Computing

Sprint 0 Status Report

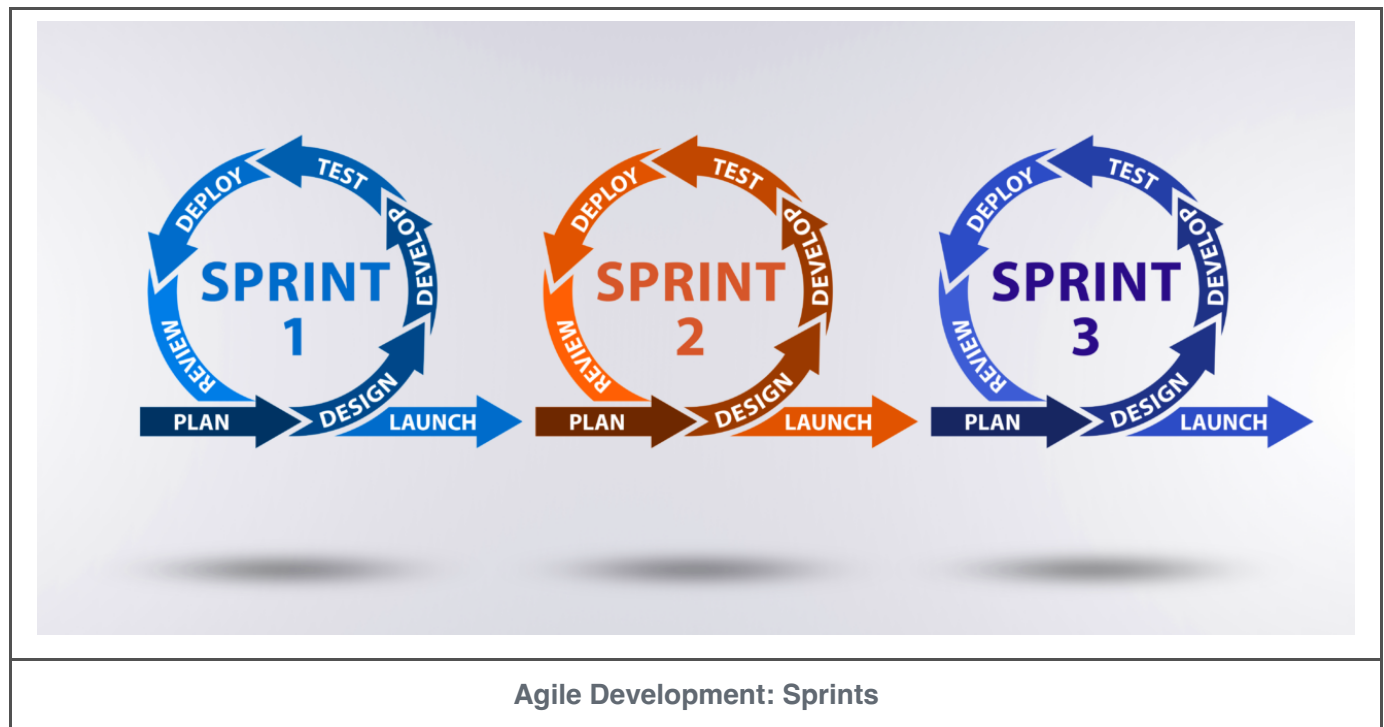
Overview

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Date: 9/18/2023

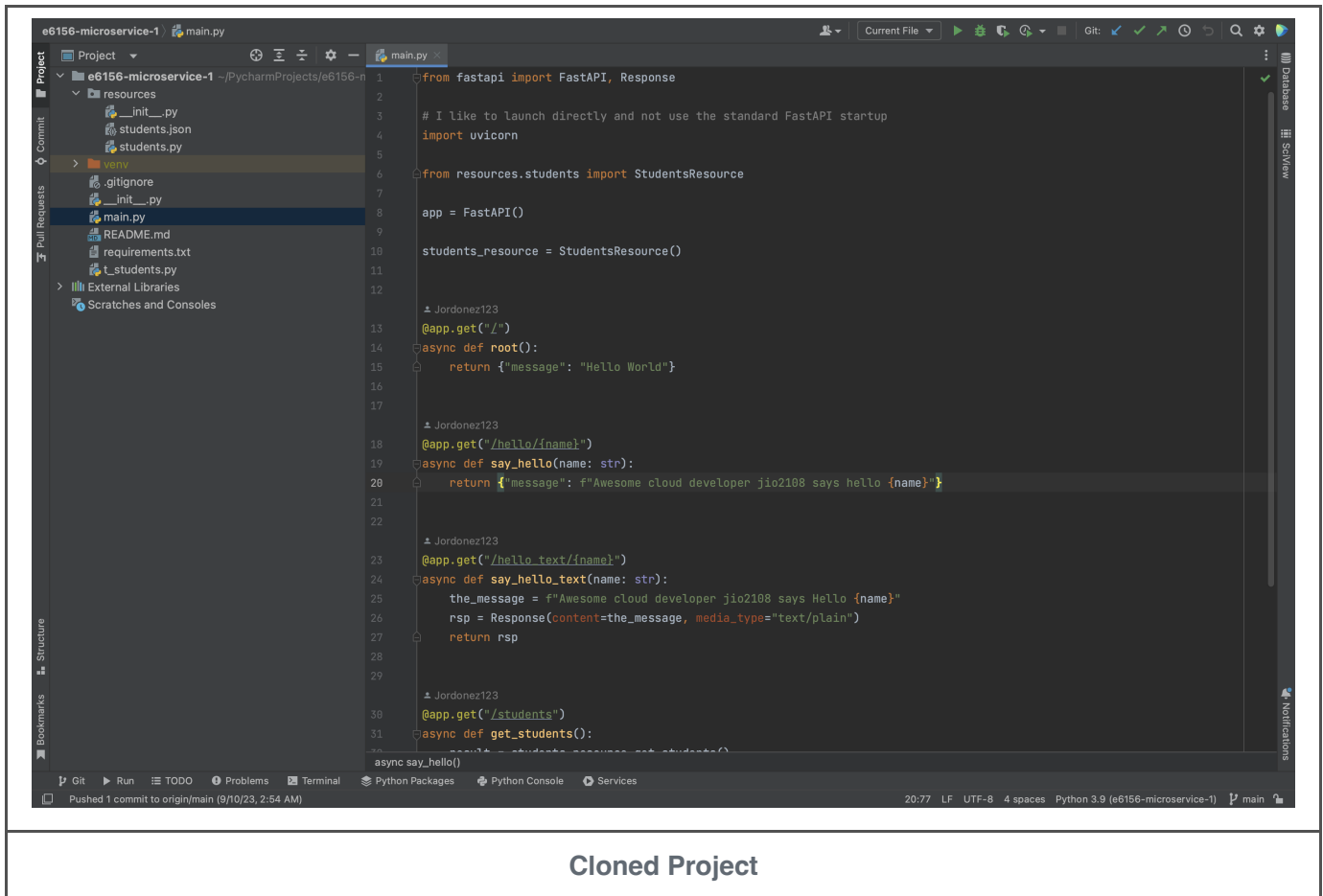
Sprint is a concept from [Agile SW development](#). Project teams will follow a simplified version of agile development to build their projects. A core concept in agile development is a *sprint*.



Sprint-0 is an individual sprint that focus on setting up their environments. All students must complete the sprint individually. This document is the template for submitting a status report on Sprint-0. Completing the report is simply taking screenshots and including them in the relevant sections of the Markdown document. You will submit a PDF version of the Markdown to GradeScope. We will post submission instructions on Ed for submitting the report.

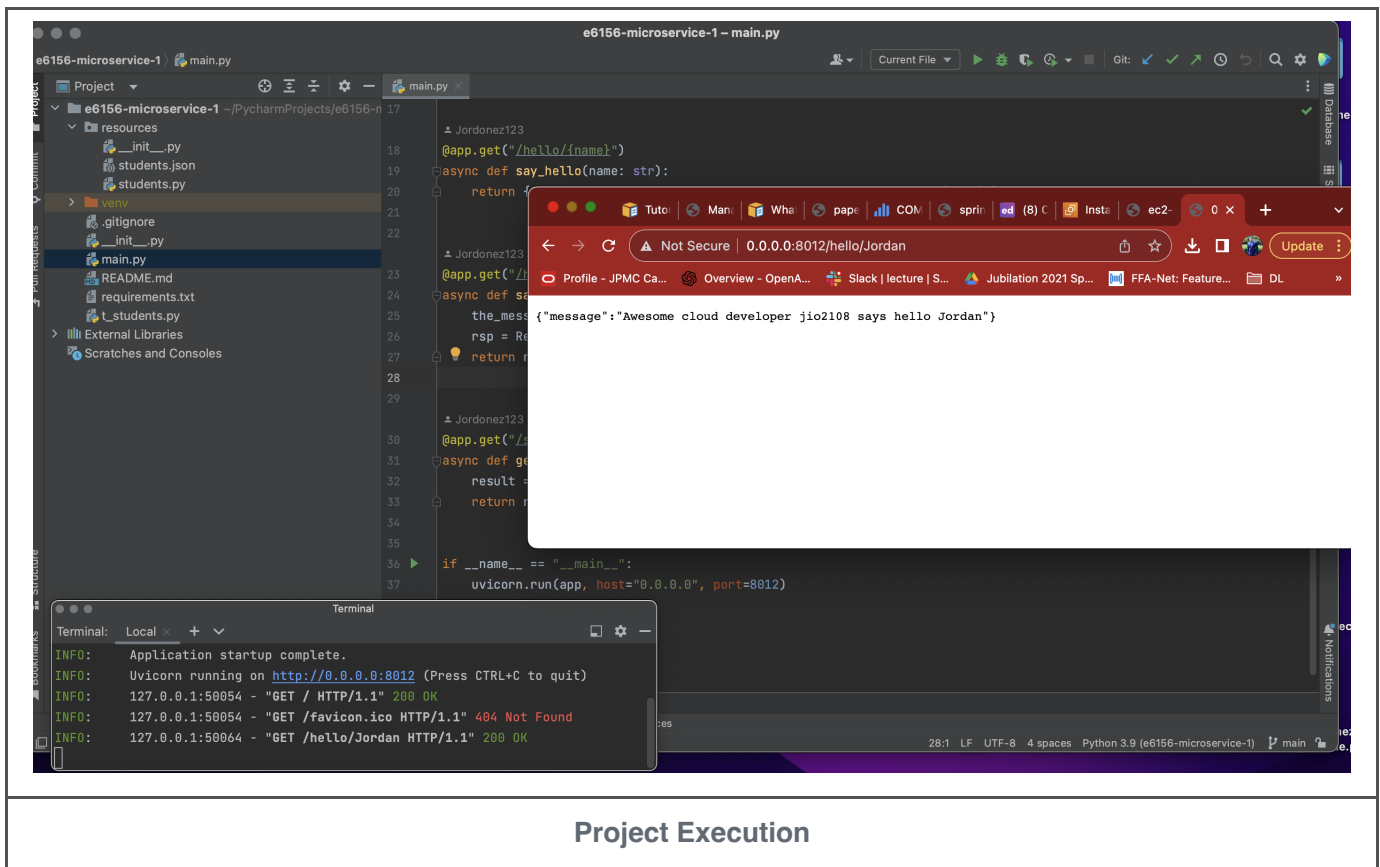
Clone and Modify the Starter Project

- Here's a screen capture of my directory below. Displayed are the structure in a PyCharm window.



Execute the Starter Project

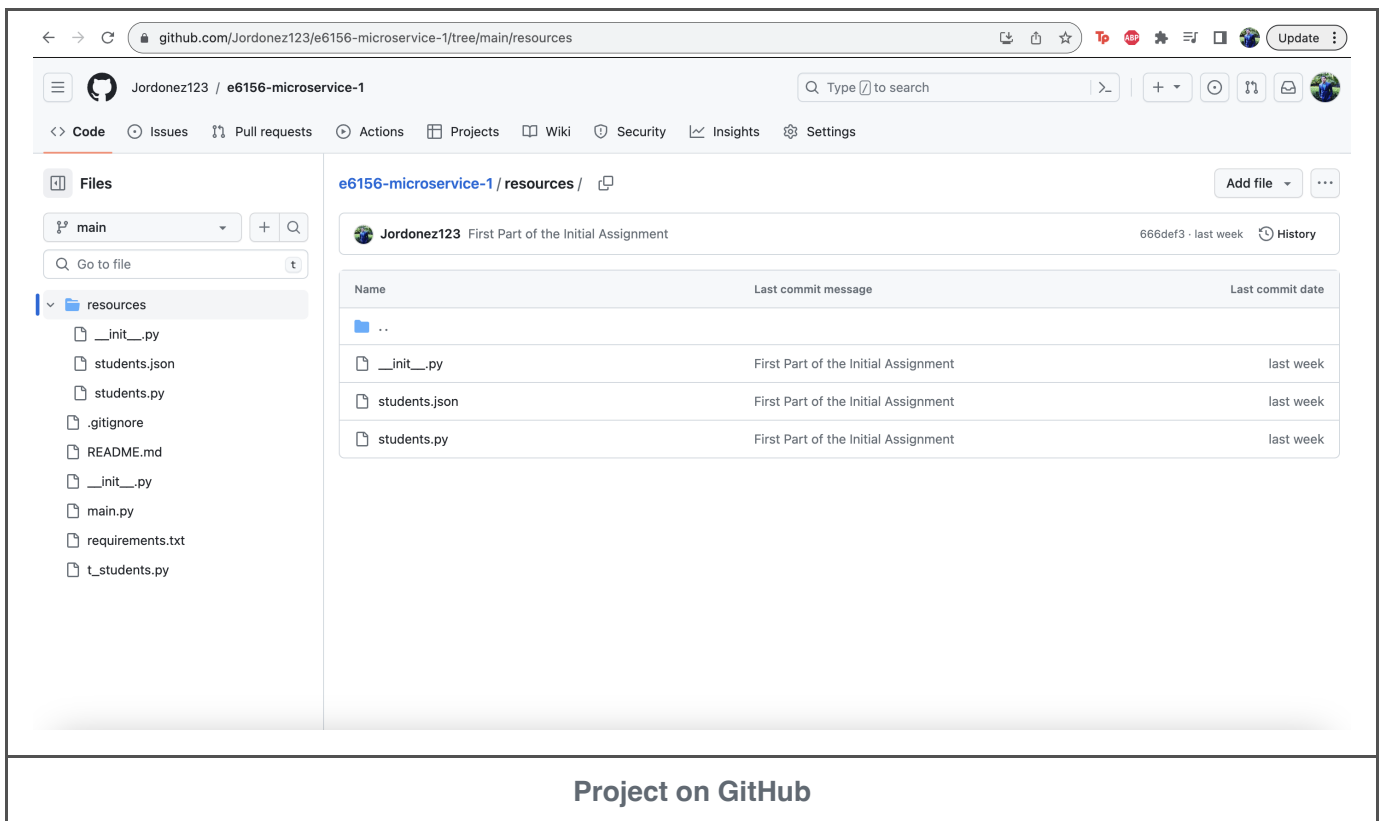
Here's my project executing. My example shows and execution window and browser side-by-side.



Project Execution

Create Your Own GitHub Project

I've made a copy of the project and created a project in GitHub.



Project on GitHub

Deploy and Test Project on AWS

Here's information about my VM through the console.

The screenshot displays the AWS Management Console interface for an EC2 instance. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-0a93d49b4f512d155`. The console header includes the AWS logo, a search bar, and navigation links for Services, Overview, OpenA..., Slack, and other applications. The left sidebar contains a navigation menu with categories like EC2 Dashboard, Instances, Images, Elastic Block Store, Network & Security, and Load Balancing. The main content area is titled "Instance summary for i-0a93d49b4f512d155 (demo-1)" and shows the instance is in a "Running" state. It lists various attributes such as Instance ID, Public IPv4 address (52.23.220.21), Private IP address (172.31.42.247), Hostname type, IP name, Answer private resource DNS name, Auto-assigned IP address, IAM Role, IMDSv2, and Required. Below the summary, there are tabs for Details, Security, Networking, Storage, Status checks, Monitoring, and Tags. The "Details" tab is selected, showing a table of instance details including Platform (Amazon Linux), Platform details (Linux/UNIX), Stop protection (Disabled), Instance auto-recovery (Default), AMI ID (ami-01c647eace872fc02), AMI name (al2023-ami-2023.1.20230906.1-kernel-6.1-x86_64), Launch time (Mon Sep 18 2023 22:06:58 GMT-0400), Lifecycle (normal), Monitoring (disabled), Termination protection (Disabled), AMI location (amazon/al2023-ami-2023.1.20230906.1-kernel-6.1-x86_64), and Stop-hibernate behavior (Disabled).

AWS Console

Here's my application running in the EC2 terminal and browser.

```
us-east-1.console.aws.amazon.com/ec...
Profile - JPMC Ca... Overview - OpenA... Slack | lecture | S... Jubilation 2021 Sp...

Services
\###|
V-! -> https://aws.amazon.com/linux/amazon-linux-2023
/m/

Last login: Tue Sep 19 02:10:12 2023 from 209.2.228.44
[ec2-user@ip-172-31-42-247 ~]$ ls -al
total 26
drwx----- 6 ec2-user ec2-user 167 Sep 19 02:14 .
drwxr-xr-x. 3 root root 22 Sep 10 18:20 ..
-rw----- 1 ec2-user ec2-user 850 Sep 19 02:18 .bash_history
-rw-r--r-- 1 ec2-user ec2-user 18 Jan 28 2023 .bash_logout
-rw-r--r-- 1 ec2-user ec2-user 141 Jan 28 2023 .bash_profile
-rw-r--r-- 1 ec2-user ec2-user 492 Jan 28 2023 .bashrc
drwxr-xr-x. 3 ec2-user ec2-user 17 Sep 10 18:28 .cache
drwx----- 4 ec2-user ec2-user 28 Sep 10 18:29 .local
drwx----- 2 ec2-user ec2-user 29 Sep 10 18:20 .ssh
-rw----- 1 ec2-user ec2-user 4646 Sep 19 02:14 .viminfo
drwxr-xr-x. 4 ec2-user ec2-user 149 Sep 19 02:14 e6156-microservice-1
[ec2-user@ip-172-31-42-247 ~]$ ls
e6156-microservice-1
[ec2-user@ip-172-31-42-247 ~]$ cd
.cache/ .local/ .ssh/ e6156-microservice-1/
[ec2-user@ip-172-31-42-247 ~]$ cd e6156-microservice-1/
[ec2-user@ip-172-31-42-247 e6156-microservice-1]$ ls -al
total 20
drwxr-xr-x. 4 ec2-user ec2-user 149 Sep 19 02:14 .
drwx----- 6 ec2-user ec2-user 167 Sep 19 02:14 ..
drwxr-xr-x. 8 ec2-user ec2-user 163 Sep 19 02:14 .git
-rw-r--r-- 1 ec2-user ec2-user 52 Sep 10 18:24 .gitignore
-rw-r--r-- 1 ec2-user ec2-user 2961 Sep 10 18:24 README.md
-rw-r--r-- 1 ec2-user ec2-user 0 Sep 10 18:24 _init_.py
-rw-r--r-- 1 ec2-user ec2-user 850 Sep 19 02:14 main.py
-rw-r--r-- 1 ec2-user ec2-user 199 Sep 10 18:24 requirements.txt
drwxr-xr-x. 3 ec2-user ec2-user 84 Sep 10 22:27 resources
-rw-r--r-- 1 ec2-user ec2-user 479 Sep 10 18:24 t_students.py
[ec2-user@ip-172-31-42-247 e6156-microservice-1]$ python3 main.py
INFO: Started server process [3512]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://0.0.0.0:8012 (Press CTRL+C to quit)
INFO: 209.2.228.44:50153 - "GET / HTTP/1.1" 200 OK
INFO: 209.2.228.44:50154 - "GET /hello/Jordan HTTP/1.1" 200 OK
INFO: 63.88.73.10:49616 - "GET /hello/Jordan HTTP/1.1" 200 OK
```

```
ec2-52-23-220-21.compute-1
Not Secure | ec2-52-23-220-21.compute-...
Profile - JPMC Ca... Overview - OpenA... Slack | lecture | S... Jubilation 2021 Sp...

{"message": "Awesome cloud developer jio2108 says hello Jordan"}
```

Service Running