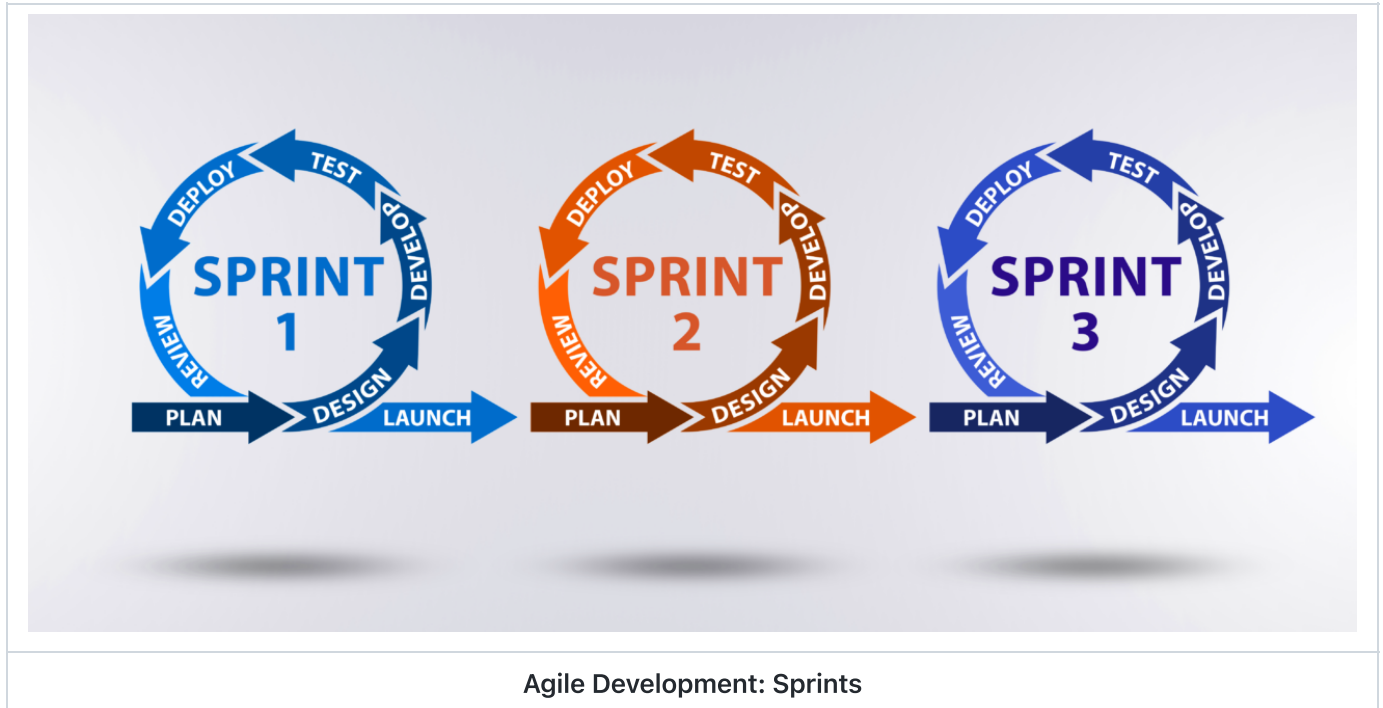


COMSE6156 - Topics in SW Engineering: Cloud Computing

Sprint 0 Status Report

Overview

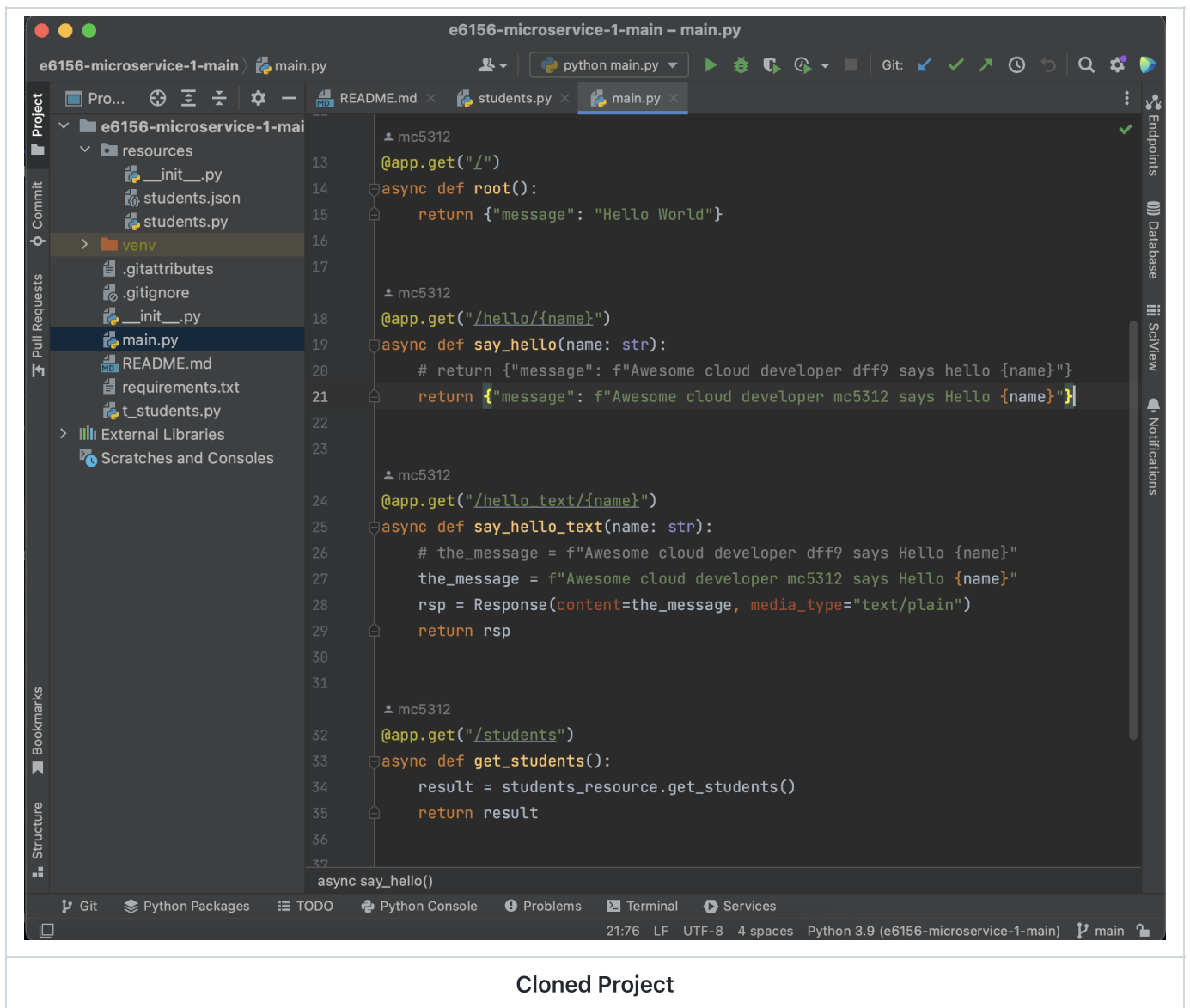
Sprint is a concept from [Agile SW development](#). Project teams will follow a simplified version of agile development to build their projects. A core concept in agile development is a *sprint*.



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.

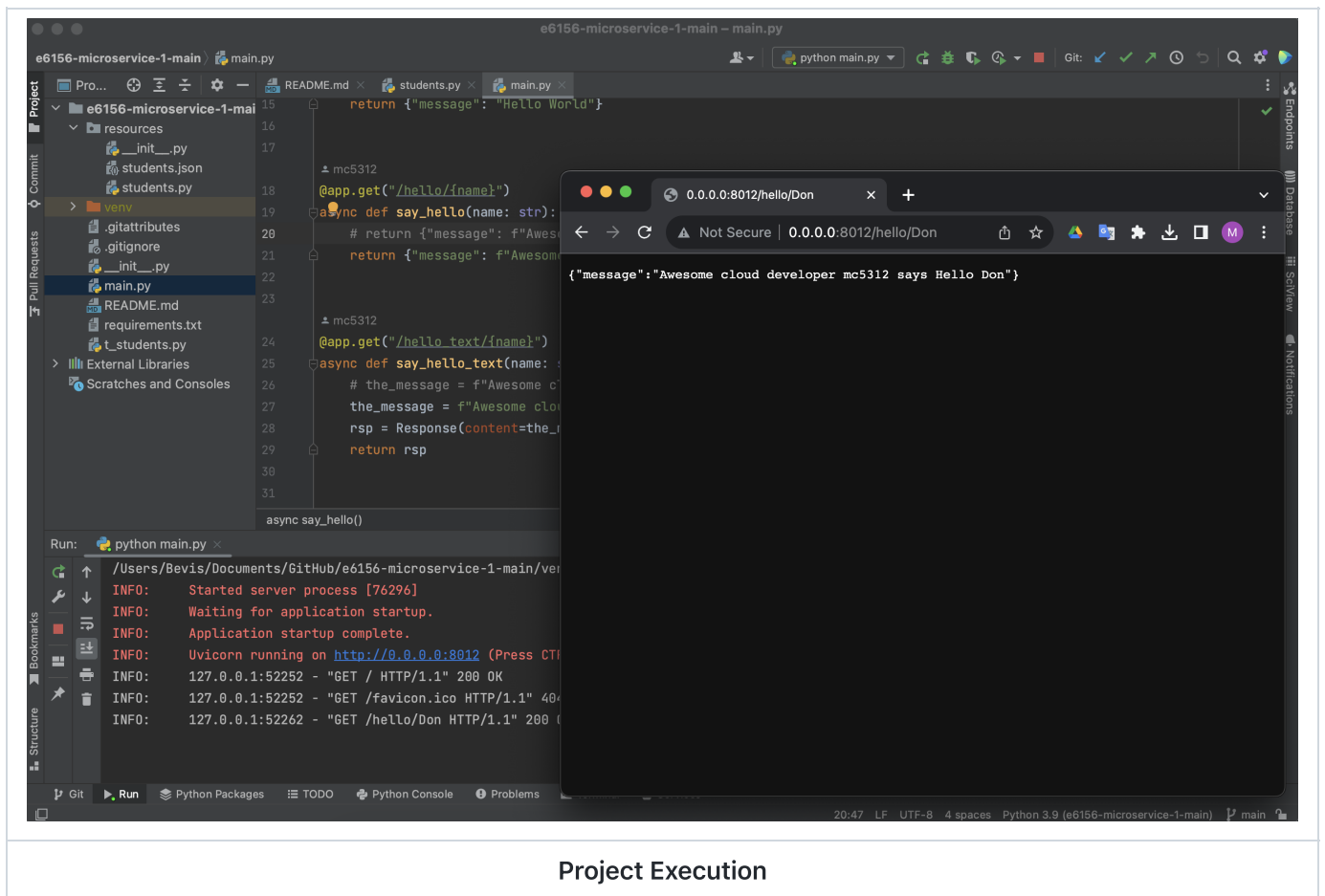
Clone and Modify the Starter Project

- Place a screen capture of your directory below. Display the structure in a terminal window, PyCharm, file explorer or any other mechanism.



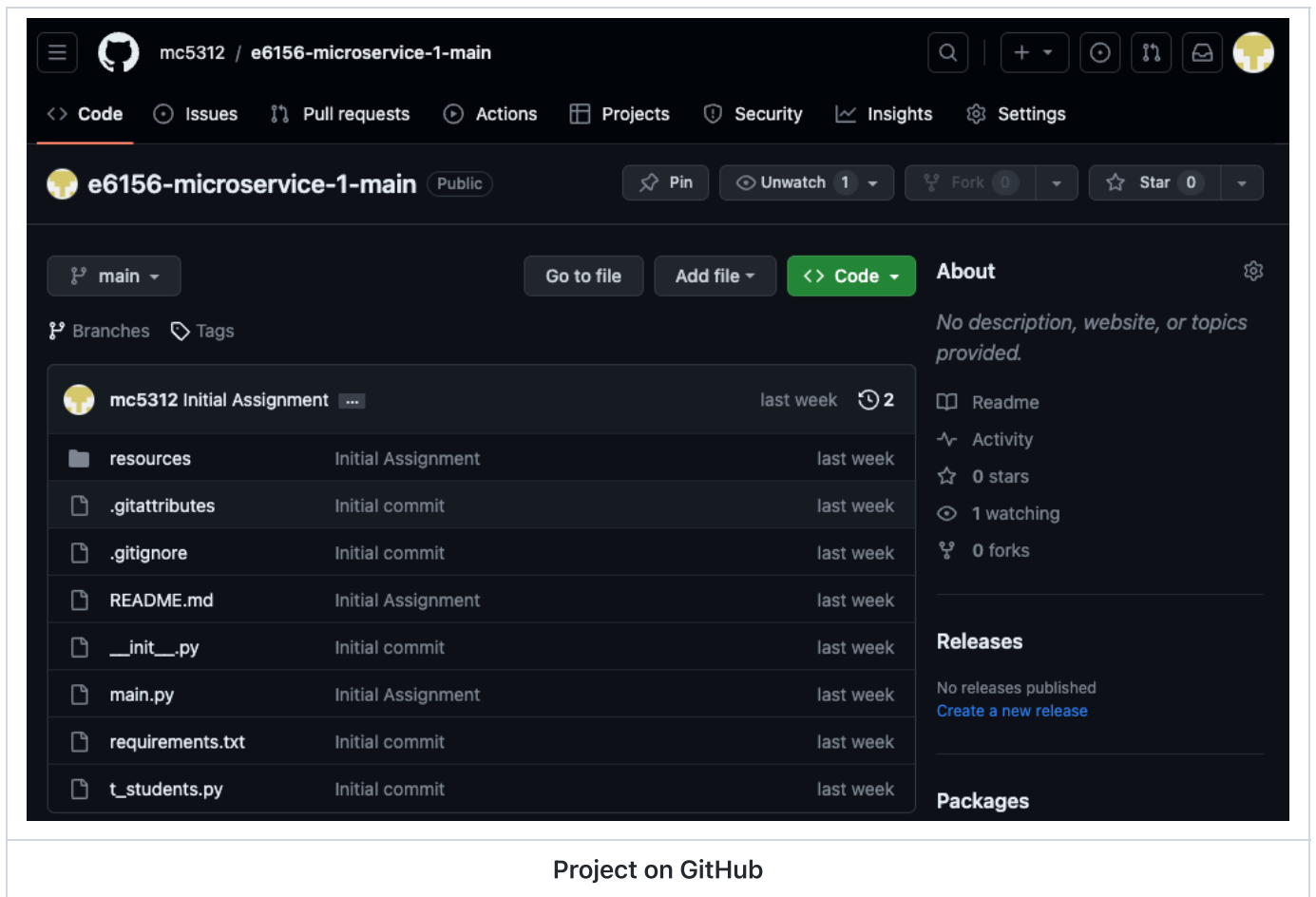
Execute the Starter Project

You can choose any formats for the screen capture as long as it shows your project executing. My simple example shows an execution window and browser side-by-side.



Create Your Own GitHub Project

Make a copy of the project and create a project in GitHub. Show the project.



Deploy and Test Project on AWS

Show the information about your VM through the console.

Services

New EC2 Experience
Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

EC2 > Instances > i-03e1ab751aec2e14d

Instance summary for i-03e1ab751aec2e14d (COMS6156) [Info](#)

Updated less than a minute ago

Connect

Instance state ▾

Actions ▾

<div>Instance ID</div> <div> i-03e1ab751aec2e14d (COMS6156)</div> <div>IPv6 address</div> <div>–</div> <div>Hostname type</div> <div>IP name: ip-172-31-5-198.ap-southeast-2.compute.internal</div> <div>Answer private resource DNS name</div> <div>IPv4 (A)</div> <div>Auto-assigned IP address</div> <div> 3.27.207.107 [Public IP]</div> <div>IAM Role</div> <div>–</div> <div>IMDSv2</div> <div>Required</div>	<div>Public IPv4 address</div> <div> 3.27.207.107 open address</div> <div>Instance state</div> <div> Running</div> <div>Private IP DNS name (IPv4 only)</div> <div> ip-172-31-5-198.ap-southeast-2.compute.internal</div> <div>Instance type</div> <div>t2.micro</div> <div>VPC ID</div> <div> vpc-02ed346889db9871c open</div> <div>Subnet ID</div> <div> subnet-082c6756da3e0296f open</div>	<div>Private IPv4 addresses</div> <div> 172.31.5.198</div> <div>Public IPv4 DNS</div> <div> ec2-3-27-207-107.ap-southeast-2.compute.amazonaws.com open address</div> <div>Elastic IP addresses</div> <div>–</div> <div>AWS Compute Optimizer finding</div> <div> Opt-in to AWS Compute Optimizer for recommendations.</div> <div>Learn more</div> <div>Auto Scaling Group name</div> <div>–</div>
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Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Instance details [Info](#)

Platform

Amazon Linux (Inferred)

Platform details

Linux/UNIX

Stop protection

AMI ID

ami-0dfb78957e4edea0c

AMI name

al2023-ami-2023.1.20230912.0-kernel-6.1-x86_64

Launch time

Monitoring

disabled

Termination protection

Disabled

AMI location

CloudShell

Feedback

Language

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Privacy

Terms

Cookie preferences

Show the application running in the EC2 terminal and browser.

EC2 Instance Connect | ap-southeast-2

ap-southeast-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-southeast-2&connT...

Services Search [Option+S]

Amazon Linux 2023

https://aws.amazon.com/linux/amazon-linux-2023

Last login: Tue Sep 19 14:10:07 2023 from 13.239.158.3

```
[ec2-user@ip-172-31-5-198 ~]$ ls
e6156-microservice-1-main
[ec2-user@ip-172-31-5-198 ~]$ cd e6156-microservice-1-main/
[ec2-user@ip-172-31-5-198 e6156-microservice-1-main]$ ls
README.md  __init__.py  main.py  requirements.txt  resources  t_students.py
[ec2-user@ip-172-31-5-198 e6156-microservice-1-main]$ python main.py
INFO: Started server process [3444]
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: 124.217.188.238:52493 - "GET /hello/Don HTTP/1.1" 200 OK
INFO: 124.217.188.238:52494 - "GET /hello_text/Don HTTP/1.1" 200 OK
```

ec2-3-27-207-107.ap-southeast-2.compute.amazonaws.com:8012/hello_text/Don

Awesome cloud developer mc5312 says Hello Don

i-03e1ab751aec2e14d (COMS6156)

PublicIPs: 3.27.207.107 PrivateIPs: 172.31.5.198

CloudShell Feedback Language

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Service Running