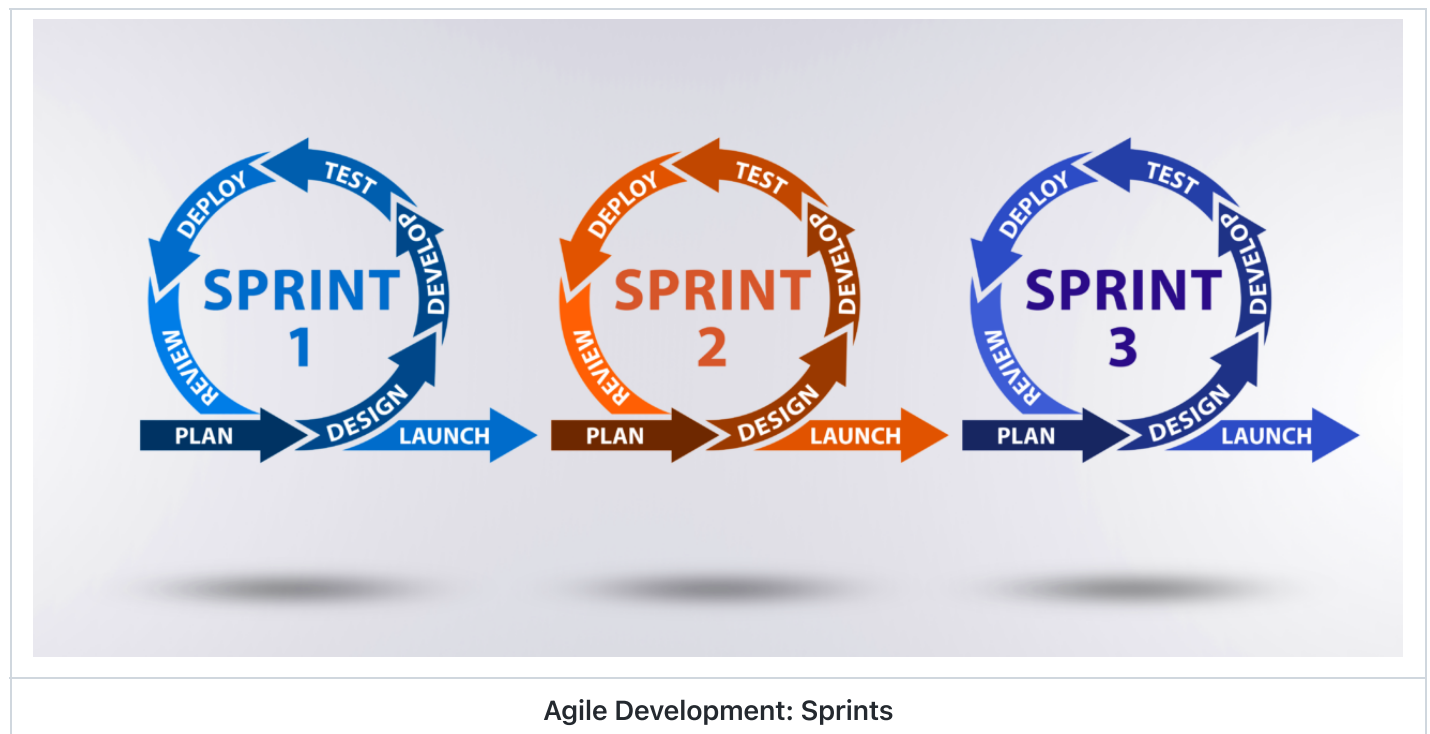


# COMSE6156 - Topics in SW Engineering: Cloud Computing

## Sprint 0 Status Report

### Overview

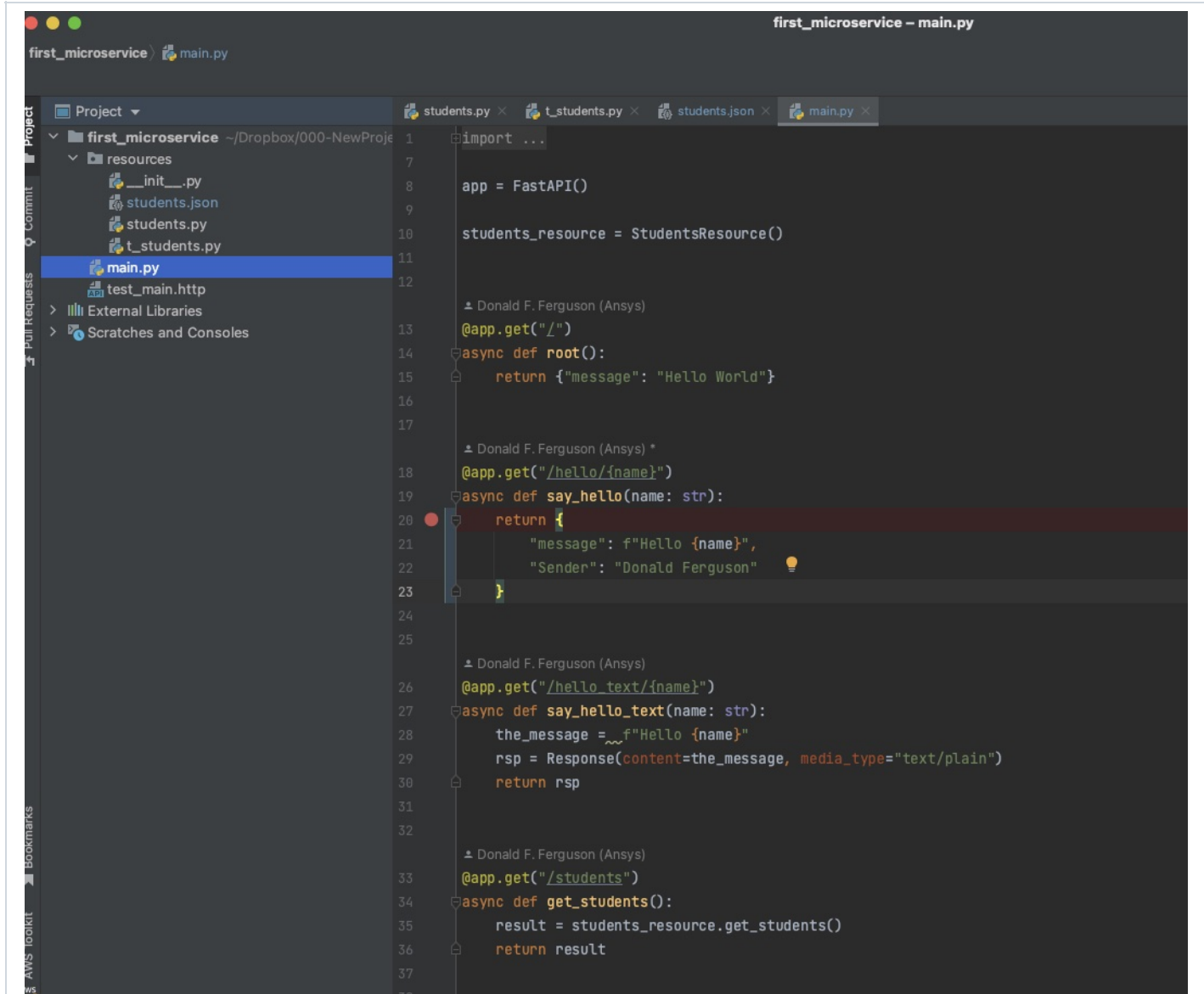
Sprint is a concept from [Agile SW development](#). Project teams will follow a simplified version of agile development to build their projects. A core concept in agile development is a *sprint*.



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.

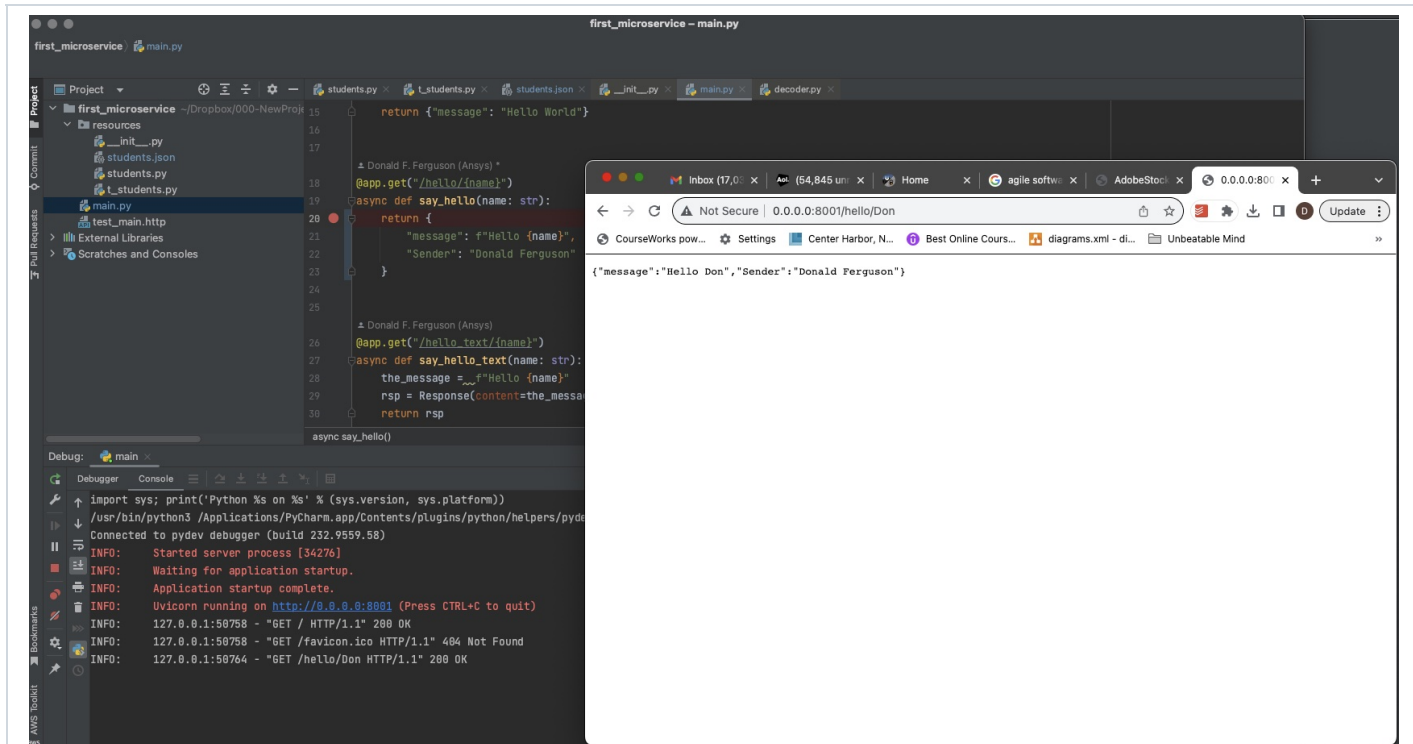


```
1 import ...
2
3
4
5
6
7
8 app = FastAPI()
9
10 students_resource = StudentsResource()
11
12
13 # Donald F. Ferguson (Ansys)
14 @app.get("/")
15 async def root():
16     return {"message": "Hello World"}
17
18
19 # Donald F. Ferguson (Ansys) *
20 @app.get("/hello/{name}")
21 async def say_hello(name: str):
22     return {
23         "message": f"Hello {name}",
24         "Sender": "Donald Ferguson"
25     }
26
27
28 # Donald F. Ferguson (Ansys)
29 @app.get("/hello_text/{name}")
30 async def say_hello_text(name: str):
31     the_message = f"Hello {name}"
32     rsp = Response(content=the_message, media_type="text/plain")
33     return rsp
34
35
36 # Donald F. Ferguson (Ansys)
37 @app.get("/students")
38 async def get_students():
39     result = students_resource.get_students()
40     return result
```

## Cloned Project

## Execute the Starter Project

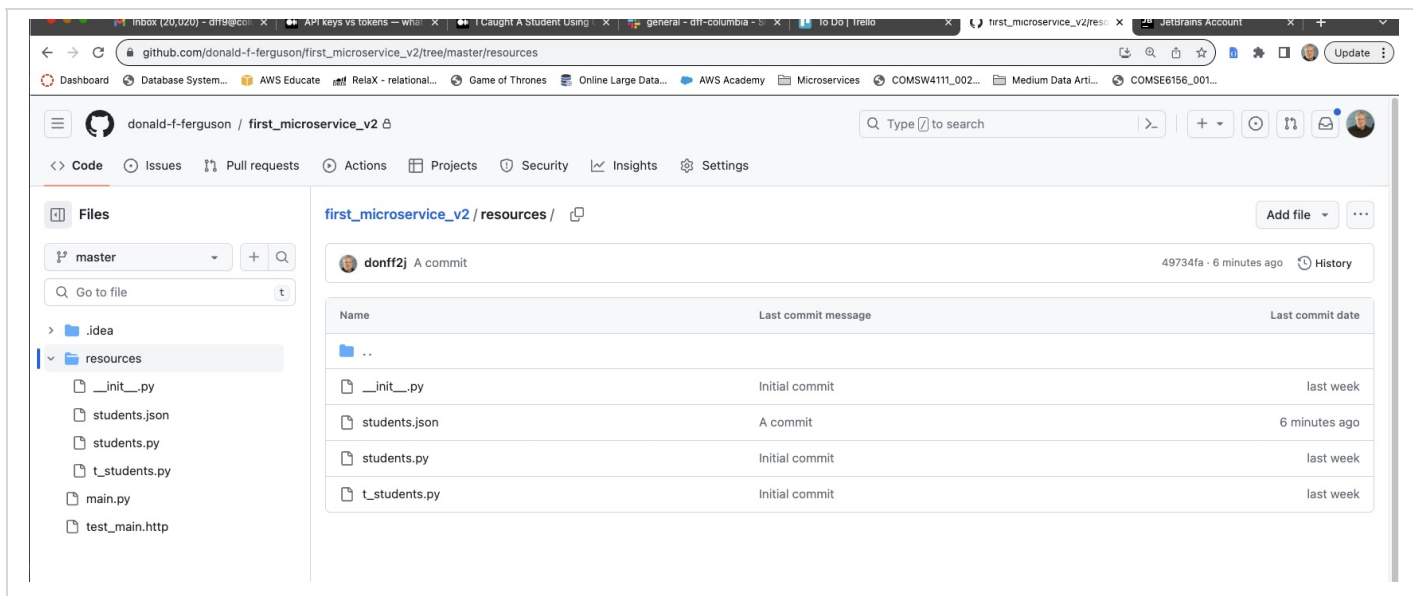
You can choose any formats for the screen capture as long as it shows your project executing. My simple example shows and execution window and browser side-by-side.



### Project Execution

## Create Your Own GitHub Project

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



### Project on GitHub

## Deploy and Test Project on AWS

Show the information about your VM through the console.

The screenshot displays the AWS Management Console interface for an EC2 instance. The top navigation bar shows the AWS logo and a search bar. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Instances, Images, Elastic Block Store, Network & Security, and Load Balancing. The main content area shows the 'Instance summary for i-024f9b63643aa655b (demo-1)' with a status of 'Running'. The summary includes details such as Instance ID, Public IPv4 address, Private IPv4 addresses, Public IPv4 DNS, Elastic IP addresses, AWS Compute Optimizer finding, Auto Scaling Group name, IAM Role, Subnet ID, 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 16:41:30 GMT-0400), and Monitoring (disabled). The bottom of the console shows the 'AWS Console' logo.

Show the application running in the EC2 terminal and browser.

