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CS361: Assignment 1: Microservices Warm-Up

Instructions

PART 1: Plan

After reading through the requirements and instructions, how long do you think it will take to complete the assignment and how will you go about it? Answer the following questions to start planning.

Complete each item below by replacing the **highlighted text** (**Usability note:** double-click the text to select it).

1. Which **programming language** will you use to complete this assignment?

I will be using Python as that is the language that I am most familiar with.

2. **How familiar and comfortable** are you with this programming language? For example, when was the last time you used it?

I've been using python since pretty much the start of the postBacc program. I've also learned JavaScript on the side, but my biggest issue with JavaScript is the debugging. Python can easily be debugged using PyCharms debug feature, but as of this date, I have no idea how to really debug in JavaScript other than console.loging everything.

3. Based on the above and other relevant factors, **how long** do you think it'll take to complete the assignment? Explain your answer. Track how long it actually takes to complete the assignment (you'll be asked about this in Part 3).

After watching the videos and looking at the requirements for assignment 1, I'm going to realistically give myself about 6 – 8 hours to complete this task. I am probably over exaggerating the time and may probably take me at most 3 – 5 hours, but there are some features here that I haven't touched in a very long time and I want to familiarize myself with the process.

Things like read/write, setting timers, and setting up the proper UI to access these microservices

Now that you have a time estimate, I recommend you double it! That'll help give you a time buffer in case you run into issues.

I also recommend scheduling when you'll do the work. How many work sessions will you need? On which days will you work? How will this work fit around the other work you need to do?

PART 3: Reflect

Now that you've completed the assignment...

How long did it **actually** take you to complete the assignment?

Not including breaks and procrastination, the assignment took about 2 – 2.5 hours. I spent about 1 hour or so getting a general idea of how to complete the assignment including research/ overview of how to perform the read/write and getting familiarized with how this process worked. I also wanted to also be able to open the respective images and display the images to the user instead of just displaying the directory location, so I spent about 20-30 minutes on Google and trying to learn how to perform this process.

Afterwards, it was basically writing the procedures and step-by-step in first getting the UI to write “run” and “write” that text to the prng-service.txt -> prng.py reads the “run” command and based off a conditional, runs the RNG library, writes a random number to “prng-service.txt”. The UI then writes the number in prng-service.txt to send to image-service.txt where it opens up the requested file.

I used the TODO in Pycharm to help me break down the components which made it easier to understand.

This reflection is meant to help you understand how accurate your time estimates tend to be so that you can factor that information into future time estimates. You won't be asked to track your time spent on future assignment but you might find it helpful to do so on your own