

Exercise 1.1: Getting Started with Python

1. In your own words, what is the difference between frontend and backend web development? If you were hired to work on backend programming for a web application, what kinds of operations would you be working on?

Frontend development develops features that the users interact with directly or indirectly- the visuals, buttons, overlays, different pages, videos, etc. Backend development would create the connection between these features and the servers, databases, or other systems. These connections would be APIs also developed by backend development. Anything that is located outside of the 'client' side of an app is generally considered to be a backend component.

2. Imagine you're working as a full-stack developer in the near future. Your team is asking for your advice on whether to use JavaScript or Python for a project, and you think Python would be the better choice. How would you explain the similarities and differences between the two languages to your team? Drawing from what you learned in this Exercise, what reasons would you give to convince your team that Python is the better option?

(Hint: refer to the Exercise section "The Benefits of Developing with Python")

Both of the tools are extremely versatile with what they can be used to do- but Python is considered to be a much simpler and straightforward language. If the goal is to create a product that other developers would need to read or look through in order to build off of it then Python would be the right choice due to how readable the language is. JavaScript can still be effective when documented correctly, but readability of Python is simply second to none.

3. Now that you've had an introduction to Python, write down 3 goals you have for yourself and your learning during this Achievement. You can reflect on the following questions if it helps you. What do you want to learn about Python? What do you want to get out of this Achievement? Where or what do you see yourself working on after you complete this Achievement

I want to learn about scraping with Python, or maybe about Machine Learning / automation programs.

My goal after this achievement is to create a scraping program to build off of my MovieDB app and create a IMDB top 100-1000 scraping device to store in a database instead of only having a static number of movies

Another goal is to not cut any corners with a new language and to make sure that I am doing everything properly or in an efficient manner instead of hardcoding workarounds.