

### **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 web development is related to development of programs that are interacting directly with the User through the Web browser (Chrome, Safari etc...). Resulting Apps are executed by these browsers and rely on HTML, CSS and JavaScript.

Backend web development on the other hand is related to some code that is run on a server instead of a web browser. It is usually used for more complex programs that often are interconnected with a database. Main backend languages include JavaScript, C, C++, Ruby etc...

If I was hired to work on backend programming for web app, I would like to work on operations that make use of API and databases that make use of mongoDB technology (or similar NoSQL technology) as I found it very flexible technology (scale up, adjust etc...).

**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")**

Python is easy to learn and understand. Like JavaScript, it is a scripting language however from the beginning it was developed with the idea of a quick development in mind in particular with a great readability (indentation to separate blocks of code for instance). Simple built in package management as well as strong community support are also great benefits that support the development of the App using Python.

**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 would like to learn how to develop a full stack App using Python (Front and Back end) as we did using Node.js in order to get to understand better on real project the advantages of each languages
- I would also like to learn more about Python as I understand it can be used for data science
- In the future, I believe Python would surely be an option for some of the Apps I would be working on and therefore I would need to be able to contribute to the discussion around the choice of Python or another language