Python for Web Developers

Learning Journal
Exercise 1.1: Getting Started with Python
Learning Goals

• Summarize the uses and benefits of Python for web development
• Prepare your developer environment for programming with Python

Reflection Questions

• 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?
  - Front end involves creating the part of the application that the user interacts with,Back end developer involves creating the server-side of the web application that handles storage,business logic,processing and making sure the communication with the front end works properly. The operations working on the backend consists of Database Management, API development, server-side logic, Authentication/authorization, integration with 3rd-party services.

• 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")
  - JavaScript is great for building interactive user interfaces on the frontend with tools like React and Angular, but Python is known for its simplicity and readability, making it ideal for backend development using frameworks like Django and Flask. While both can handle full-stack development, Python's ease of use and strong community support make it a better fit for backend tasks and quick development.

• 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?
-Master Python Basics ,Develop Backend Skills , Implement Real-World Projects