Task 2.1 – Learning Journal:

1. Suppose you're a web developer in a company and need to decide if you'll use vanilla (plain) Python for a project, or a framework like Django instead. What are the advantages and drawbacks of each?

Django is made to help developers create their apps fast with robust security and ease of scalability. It also comes loaded with a large library of tools and features you can use. Moreover, it provides developers its 'Admin interface' which an authorized person can easily manage contents of the page. This makes Django cost effective and efficient if used in large projects with short deadlines. Its disadvantages on the other hand are: Django has its own ways of performing tasks – Knows as "The Django way" – which further steepens its learning curve and it takes large portion of server processing and time for small projects & its strength is seen as the code grows.

2. In your own words, what is the most significant advantage of Model View Template (MVT) architecture over Model View Controller (MVC) architecture?

In MVC structure you have to write the control that stands in the middle of model (which interacts with the data base and fetches data per request) and view (which prepares the presentation of the page), coordinates both and send back HTTPS for every request received. On the other hand, in MVT structure the view stands in the middle of model (interacts with database and fetches data) and template (prepares presentation), coordinate them appropriately and send back a response URL. The advantage of MVT lies in that when request comes the view matches the URL with specific request and returns response, so here you don't need to write code for the view part like you do for the controller part in MVC.

3. Now that you've had an introduction to the Django framework, write down three goals you have for yourself and your learning process during this Achievement. You can reflect on the following questions if it helps:

What do you want to learn about Django?

What do you want to get out of this Achievement?

Where or what do you see yourself working on after you complete this Achievement?

By the end of this achievement I should be confident enough to work with different features and tools of Django and to increase my backend knowledge. I think if I can make applications with heavy traffic requests or large amount of data to manipulate and scale up or down apps made using Django, this achievement is a win for me.