

1. Write two to three sentences on why Django is so popular among web developers.

-Django is quite efficient with its many libraries and reusability, this promotes quick and easy development for many different projects. And due to its scalability it can host large scale apps that use heavy network demands, this makes it perfect for companies like Spotify, Instagram, National Geographic, Netflix and Nasa.

-Spotify relies on the large community to keep Django up to date, the speed that django operates with and data analysis and machine learning to adapt to specific users.

-Instagram “We initially chose to use Python because of its reputation for simplicity and practicality, which aligns well with our philosophy of do the simple thing first.” -Min Ni, Instagram software engineer.

-National Geographic uses Django to manage all information on their website, from images and ads to models.

-Netflix relies on the powerful analytics and machine learning to recommend movies for the user.

-Nasa uses Django for many reasons but one of the big ones is how secure Django can make a website.

2.

- You need to develop a web application with multiple users.
 - Yes, Django can efficiently handle many users and sessions at once.
- You need fast deployment and the ability to make changes as you proceed.
 - Yes, Django is known for fast development and able to make changes easily
- You need to build a very basic application, which doesn't require any database access or file operations.
 - No, Django is more suited for large scale applications and might be considered overkill for this use
- You want to build an application from scratch and want a lot of control over how it works.
 - No, due to the rigid system needed to implement Django one gives up some of the control one has over every little detail.
- You're about to start working on a big project and are afraid of getting stuck and needing additional support.
 - Yes, Django is well suited for large scale projects and has a large community of developers who can assist.

Learning Journal Questions

Pre Work Questions

1. Was your study routine effective during Achievement 1? If not, what will you do differently during Achievement 2?

-My study routine tends to work around my work schedule, so with the past achievement I got as much done as I could in the morning before I went to work. I try to get one task done every couple days, I believe I was quite efficient so I will keep to that routine.

2. Reflect on your learning and project work for Achievement 1. What were you most proud of? How will you repeat or build on this in Achievement 2?

-I am most proud of my ability to problem solve and return to a problem I was stuck on with the determination to fix it. I will bring that same attitude into this project.

3. What difficulties did you encounter in the last Achievement? How did you deal with them? How could this experience prepare you for difficulties in Achievement 2?

-I encountered the same learning curve problems I have been coming across while doing this course. Nothing I wouldn't fight through and I don't see this next section being any different.

2.1 Questions

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?

-Vanilla or plain python is better for smaller projects where you want more control over little details, however more of the code will have to be written from scratch. While you give up some control with the Django way, it is more suited to larger projects and its libraries can speed up development and allow for more efficient coding.

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

-MVT enables the use of templates, simplifying the rendering of HTML content

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?

-I am really interested in seeing what the front end development for Django is capable of and how I can adapt that into my own style.

-I love to cook so I would like to really dive deep into an app that acquires ingredients and can spit out a recipe for me to actually make. So I am planning on creating an extensive list of recipes and ingredients that I can use myself.

-Once I am done with this achievement I really want to polish my portfolio website, Im not sure if Django will be what I use to refurbish that but I will be looking at everything I do in this achievement to see if its the right fit.