

IIDT-Blackbucks short term internship FSD session 10-APSHE

The tenth session is about introduction to Django, Creating a Django project , Exploring Django project structure, Creating a simple GET API route using Django.

Topics covered :

1. Introduction to Django.
2. Creating a Django project.
3. Exploring Django project structure.
4. Creating a simple GET API route using Django.

Key points:

1. Django is a powerful and popular web framework written in python. It follows the Model-view-controller(MVC) architectural pattern, but in Django it's called model-view-Template(MVT).
2. Model-Models define the structure and behavior of data.
3. Views-Views handle the logic and functionality of your web pages.
4. Templates-Templates are used to create the HTML pages that are sent to the user's browser.
5. Django is a versatile framework that can be used to build all kinds of web applications, from simple websites to complex web applications.
6. To create a Django project :
 - open your command prompt.
 - Navigate to the directory where you want to create your project.
 - Run the command: `django-admin startproject projectname`.
 - Replace "projectname" with the desired name of your project.
7. When you create a Django project, it generates a set of files and directories
8. The project directory-This is the main directory that contains your entire Django project.
9. Manage.py-This is a command-line utility that allows your Django project.
10. Project settings-The settings .py file contains configuration settings for your Django project.
11. URL configurations-The urls .py file is responsible for URL routing in your project.
12. Creating a simple GET API route using Django involves a few steps.
 - Setup a Django project and app.
 - Define your model.
 - Create serializers.
 - Define views.
 - Configure URLs.
 - Include app URLs in project URLs.

- Run migrations and start the development server.
- Access your API end point.

13. Make sure you have Django framework installed.