

Full Stack Experiment 9

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FULL STACK EXPERIMENT 9

Setting Up Django

Django is a popular and powerful web framework that simplifies web application development.

To start building web applications with Django, it's crucial to setup a development environment that includes the framework itself, a virtual environment for isolated project dependencies and a new Django project to kickstart development.

→ Concept:

↳ Development Environment: A development environment for Django typically consists of the Django framework, a virtual environment to manage project-specific dependencies and the initial project structure.

→ Methodology:

- ① Installing Python & Virtual Environment:
 - Ensure Python is installed on the development machine
 - Create a virtual environment using tools like 'virtualenv' or 'venv' to isolate the project's dependencies
- ② Django Installation:
 - Install Django into the virtual environment using the Python package manager 'pip'

FOR EDUCATIONAL USE

③ Creating a New Django Project:

- Use the 'django-admin' command to create a new Django project.
- This command sets up the project structure, including the necessary directories and files for a Django project

④. Configuring the Development Environment:

- Configure the project's settings, including database settings, static files and application specific settings, based on project requirements

→ Conclusion: Setting up a Django development environment is the first step in building web applications with Django

~~3/11/23~~

Output:

```

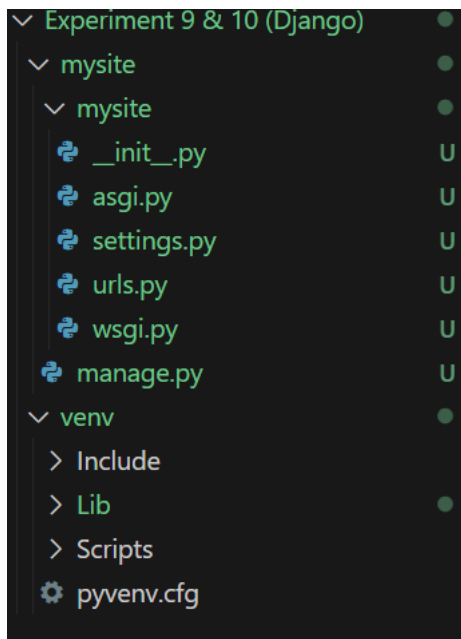
PS C:\Users\A21ma\OneDrive\Desktop\Sem5 Codes\Full Stack\Experiment 9 & 10 (Django)> python -m venv venv
PS C:\Users\A21ma\OneDrive\Desktop\Sem5 Codes\Full Stack\Experiment 9 & 10 (Django)> .\venv\Scripts\activate
(venv) PS C:\Users\A21ma\OneDrive\Desktop\Sem5 Codes\Full Stack\Experiment 9 & 10 (Django)> pip install django
Collecting django
  Downloading Django-4.2.7-py3-none-any.whl (8.0 MB)
    8.0/8.0 MB 2.7 MB/s eta 0:00:00
Collecting asgiref<4,>=3.6.0 (from django)
  Using cached asgiref-3.7.2-py3-none-any.whl (24 kB)
Collecting sqlparse>=0.3.1 (from django)
  Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
Collecting tzdata (from django)
  Using cached tzdata-2023.3-py2.py3-none-any.whl (341 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.7.2 django-4.2.7 sqlparse-0.4.4 tzdata-2023.3

```

```

(venv) PS C:\Users\A21ma\OneDrive\Desktop\Sem5 Codes\Full Stack\Experiment 9 & 10 (Django)> django-admin startproject mysite
(venv) PS C:\Users\A21ma\OneDrive\Desktop\Sem5 Codes\Full Stack\Experiment 9 & 10 (Django)> cd mysite

```



Conclusion: Learnt how to create a virtual environment and install Django in it and start a Django project.