## 1. Introduction to Django:

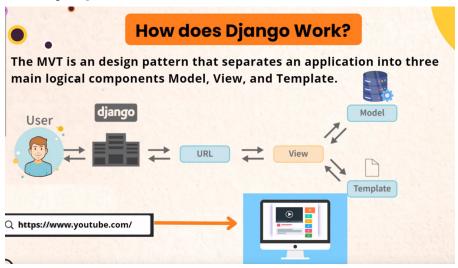
- a. What is Django → Web Application Framework written in Python based on MVT(Model View Template)
- **b.** Why Django → Batteries (built-in functionality) Included Framework.

Excellent Documentation and Scalability,
Top MNC & companies use Django. E.x: YouTube, Spotify, Instagram,
Dropbox, Bitbucket etc.

It's also used for integrating Web Scraping, Machine Learning, Image Processing, Scientific Computing etc advance stuff.

c. Unique features → Admin interface, ORM (Object Relational Mapping) URL Routing, Template System, Form Handling, Security Features Scalability





MVT: Model, View, Template

**Model**  $\rightarrow$  The data we want to present, like from a Database.

 $View \rightarrow A$  request handler that returns the relevant template and content - based on the request from the user.

Logical works & Decision maker

**Template**  $\rightarrow$  how data should be presented to the user. It may consists of HTML, CSS, JS mixed with Django template language.

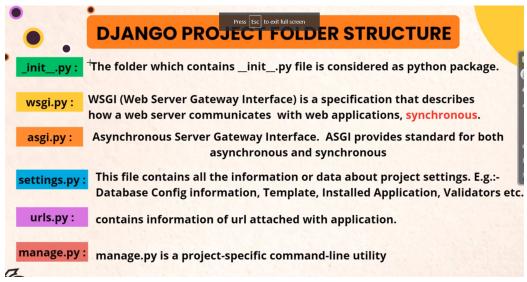
## 2. Python and Vs Code Installation

3. Introduction to Virtual Environment: Global and Virtual environment. A virtual environment is a tool that helps to keep dependencies required by different projects, separate by creating isolated python virtual environment for them. Every time unique virtual environment for each project within the same system to avoid version clash or dependencies or re-install/uninstall:



- 4. Django Installation: With Globally & Virtual environment both.
- 5. Creating a Django Project:

## 6. Project Directory Structure:



A Project contains  $\rightarrow$  Multiple applications. Multiple Applications  $\rightarrow$  A Project

- 7. Working with urls.py and views.py:
- 8. Creating An App: