Use of Django

- 1. Website development
- 2. Python framework
- 3. Flask is also framework
- 4. Django work Model view templates

#### What is framework?

Framework is set of patterns or structure in which you have to follow to build website. Also it is standard or set of rules to follow. Example coffee machine, coffee with conventional way and with coffee machine

#### What is Django?

- 1. Django is a high level python web application framework, rapid development of application
- 2. It is open source python framework (means you can install using command pip install Django)
- 3. Follows the model view templates (MVT), It means you have already given models and templates and by manipulating them you have to create your desire websites.
- 4. Most popular Python framework and also know as most secure web development framework

#### Why Django?

- 1. It's fast and simple
- 2. It's secure
- 3. You can develop any we application
- 4. It is well established
- 5. Built in authentication and authorization available

### Which famous companies uses Django?

- 1. YouTube
- 2. Instagram
- 3. Spotify
- 4. Dropbox
- 5. Mozilla

## What are the Prerequisites to start the Django?

- 1. You need to know the syntax of Python (like functions, loops, if else etc.)
- 2. No prior Knowledge of Django required (you will learn in this lab)
- 3. Python programming control structures like conditional loops. (if else, loops)
- 4. HTML, CSS are the fundamental or basic building blocks of web development so must possess the knowledge about it. (for the front end development you need to acquire the basic knowledge about HTML coding but we will learn during the building of web application so don't worry about HTML and CSS)
- 5. So basically Django deals with Static and dynamic data like dynamic means the backend coding which is done in bython
- 6. Also it deals with Static part which is front end of application, and manipulated with HTML and CSS.

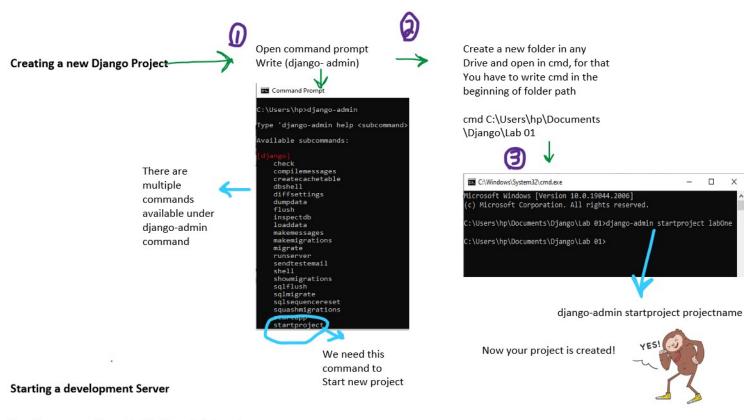
# Model View Template (MVT)

- 1. Django works on Model View Template, so lets discuss what is model? What is View and Template?
- 2. It is very simple, you just have to understand the pattern or structure.
- 3. MVT have three important components, Model, View and Template.
- 4. Model: It deals with your website database, and it is act as the interface between data and web application.
- 5. View: It is basically a function or class which is run when specific url is being run. And inside a view there is a link for Html file which is being run to give us a view or user interface.
- 6. Template: it is consist of HTML files.
- 7. So from Templates we get the data and send to view and view is connected to model.
- 8. MVT is connected to each other.
- 9. So these three patterns are used to create any web application in Django.

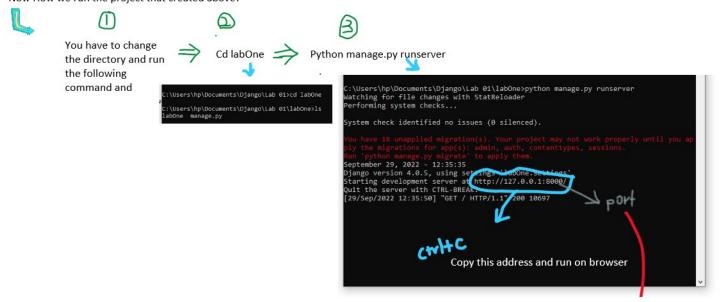


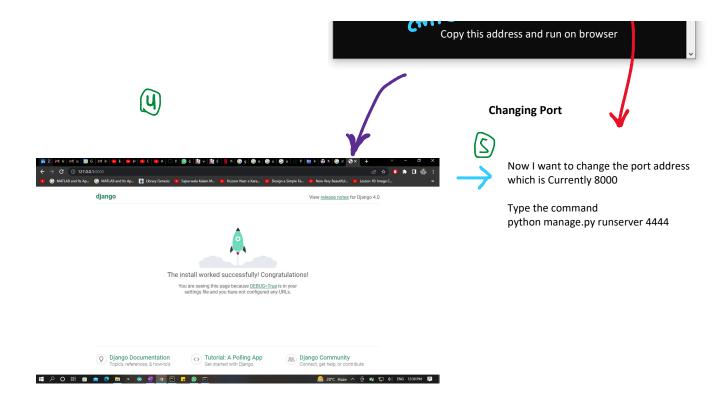


## Installing the Django in PyCharm



Now How we run the project that created above?





#### Now create a project using Pycharm terminal

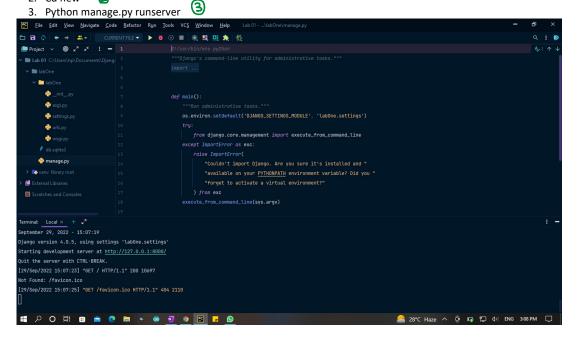


Open Pycharm and create new project

And write following commands

1. Django-admin startproject new

2. Cd new



# **Python Django Structure**





Where we need to put HTML, CSS Where database configuration goes Where we need to put urls, and views

So let's understand the folder

structure of project.