**Q: What is framework?**

Framework is software which provides development environment and execution environment for developing and executing applications.

Framework provides set of libraries/api for developing applications

Framework also defines a **unique architecture** for development of application. Architecture is a design pattern. Design pattern defines set of rules and regulations for solving a problem. There is an architectural design patterns.

1. MVC 🡪 Model View Controller
2. MVT 🡪 Model View Template

Java 🡺 Develop web application using MVC design pattern

.Net 🡺 Develop web application using MVC design pattern

Python 🡺 Develop web application using MVT

Web application functionality is divided into 3 layers

1. Service Layer
2. Presentation Layer
3. Persist Layer

**Python web application frameworks**

Python provide number of web application frameworks for developing web applications

1. Django
2. Flask
3. FastAPI
4. Pyramid
5. CherryPy
6. Web2Py
7. TurboGears
8. Bottle

These web application frameworks are divided into two categories

1. Full stack Framework/Major Framework
2. Micro Framework

Full stack web framework comes with all the libraries required to develop a complete web application.

**Example:** Django, FastAPI,…

Micro Framework it does come with all the libraries required to develop a web application. Other libraries has to installed separately. Example: Flask, Pyramid

**What is Django?**

Django is a python web application framework. Which is written in python language. Django is python web framework, which is free and open source. Django software is maintained by Django Software Foundation (DSF).

**Django History**

Django was created in the fall of 2003, when the [web programmers](https://en.wikipedia.org/wiki/Web_programmer) at the [*Lawrence Journal-World*](https://en.wikipedia.org/wiki/Lawrence_Journal-World) newspaper, [Adrian Holovaty](https://en.wikipedia.org/wiki/Adrian_Holovaty) and [Simon Willison](https://en.wikipedia.org/wiki/Simon_Willison), began using Python to build applications.

he framework was named after guitarist [Django Reinhardt](https://en.wikipedia.org/wiki/Django_Reinhardt" \o "Django Reinhardt).[[17]](https://en.wikipedia.org/wiki/Django_(web_framework)#cite_note-Django's_History-17) Adrian Holovaty is a Romani jazz guitar player and a big fan of Django Reinhardt.

In June 2008, it was announced that a newly formed [Django Software Foundation](https://en.wikipedia.org/wiki/Django_Software_Foundation" \o "Django Software Foundation) (DSF) would maintain Django in the future

The first version django is released in the year 2005

Official website of django is djangoproject.com

Here are 9 global companies using Django:

* Instagram
* National Geographic
* Mozilla
* Spotify
* Pinterest
* Disqus
* Bitbucket
* Eventbrite
* Prezi

**Features of Django**

1. **Python Web-framework**

Django frame work is written in python language. The features or facilities provided by python we can include while develop applications using django.

1. **Excellent Documentation**