

Django

Django is an open-source framework for backend web applications based on Python.

It is an MVT(Modern Template View) web framework that is used to build web applications

Django excels at creating websites that can handle high amount of traffic and transactions

Features of django:

Vast Community

Open Source

Enhance Security

Rapid Development

Versatile

In command prompt:-

To install virtual environment:

```
>>> pip install virtualenv
```

To create virtual environment:

```
>>> virtualenv myenv
```

To activate virtual environment:

```
>>> cd myenv
```

```
>>> cd Scripts
```

```
>>> activate
```

now we have created venv before the path

come back to the folder where project has to be created

```
>>> cd ..
```

```
>>> cd ..
```

To install django:

```
>>> pip install django
```

To start a project:

```
>>> django-admin startproject (projectname)
```

ex: django-admin startproject myproject

With django project folder there's another file named manage, that manage file is usually runned to compile a program.

Move into the path where project created

To start development server:

```
>>> python manage.py runserver
```

every page in django is called as app,

to create django app:

```
>>> python manage.py startapp (name_of_app)
```

ex: python manage.py startapp firstpage

Django has admin panel created itself, to create admin username password:

```
>>> python manage.py createsuperuser
```

(username, email, and pass will be asked, enter details and hit enter)

To get the changes made in models(tables) be reflected in the database:

```
>>> python manage.py makemigrations
```

```
>>> python manage.py migrate
```