

Full stack web development using python

Django creating first project



Saurabh Shukla (MySirG)

Agenda

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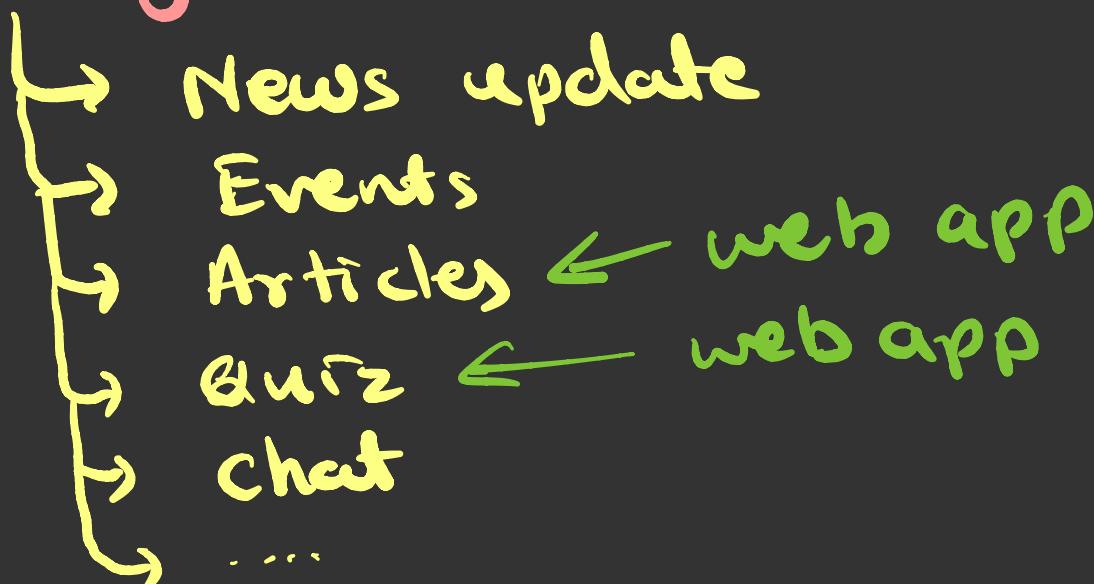
Concept

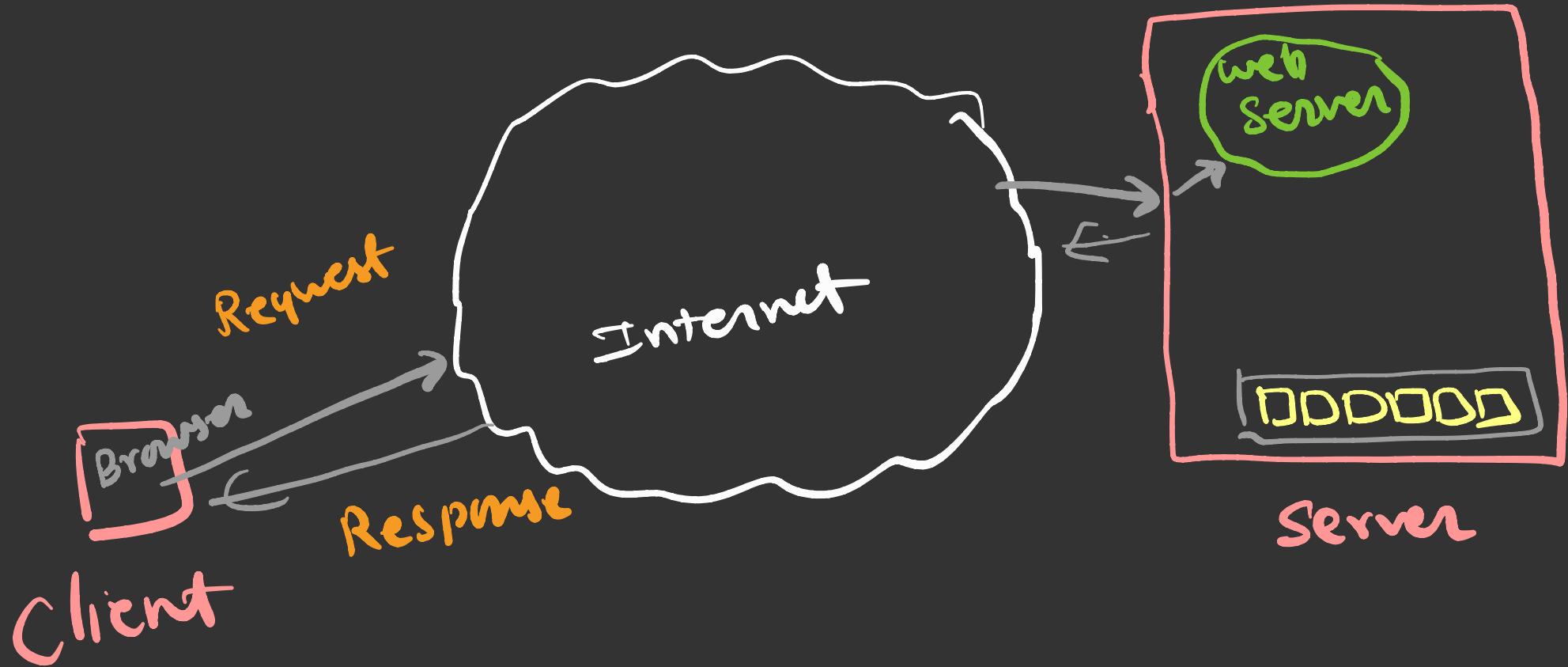
Project → website

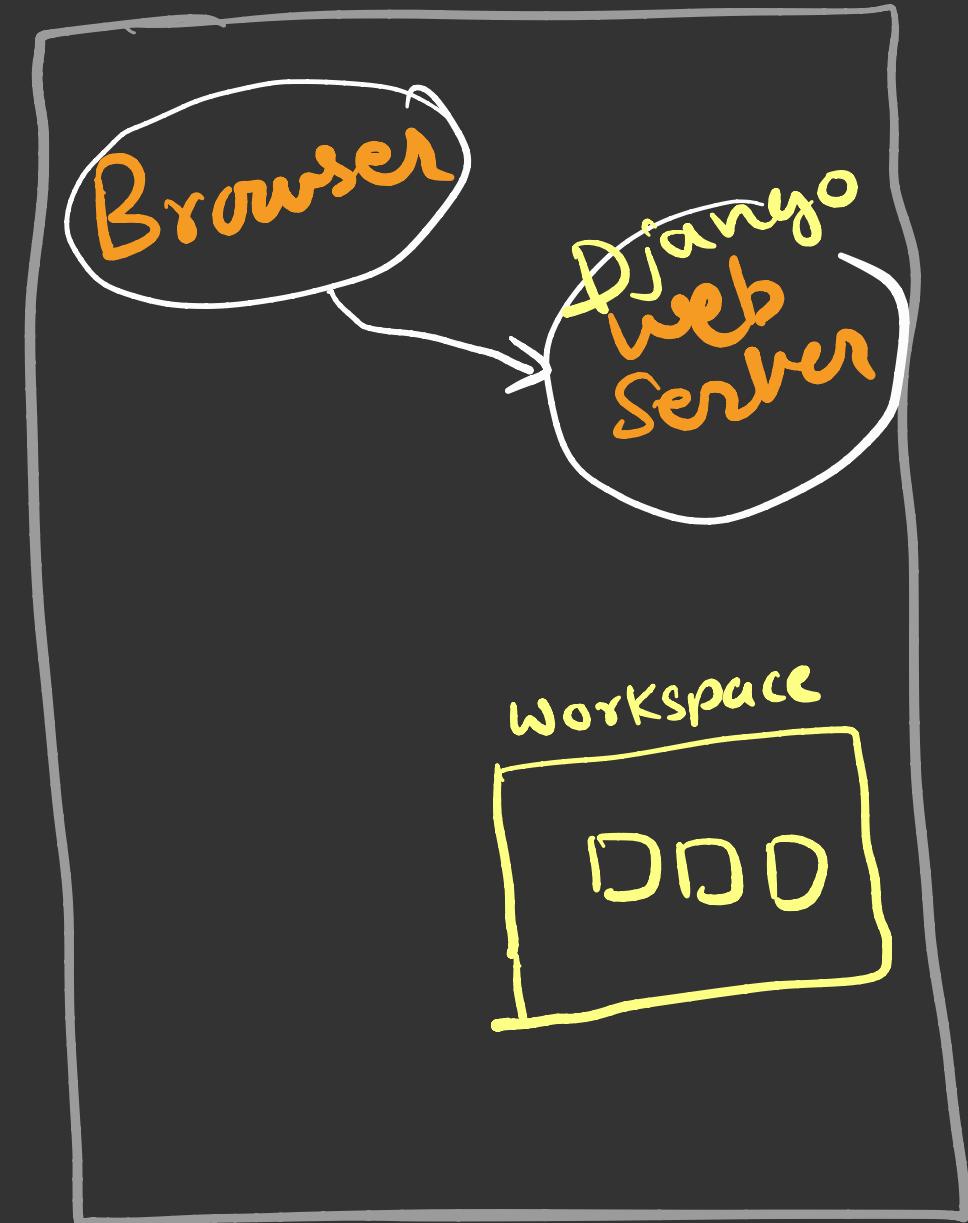
web app → application

one website can have any number of applications

e-magazine







Django is an application in itself.

With the help of django you can create a project instance

How to use Django?

Django is a framework. You can create your project with simple command

Create a workspace directory.

On cmd (on windows), or terminal (on mac)
and type following command.

go to your workspace directory

>django-admin startproject firstproject

Now you can check created project

on IDE

Project name can be anything but django or test.

Project Directory

Inside project folder

- project folder
 - __init__.py
 - settings.py
 - urls.py
 - wsgi.py
 - asgi.py
- manage.py

About project files

`__init__.py` is an empty file, its presence make the folder as python package

`settings.py` contains project related setting statements

urls.py contains url patterns of web pages

wsgi.py is webserver gateway interface, it is a special file, no modification in the file is required

asgi.py is asynchronous server gateway interface. Like wsgi.py, it describes a common interface between a python web app and the web server.

manage.py is a program to do some
initial stuff. Never edit this file.

How to run server?

Django comes with a webserver for testing your project in development phase.

Default port number is 8000

```
>python manage.py runserver [port no]
```

Test run your project

Yes you have created your first project, now its time to test it.

Open browser, type url

http://127.0.0.1:8000

Default database

SqLite is default inbuilt database
but you can use any database
management system.