Django

# WHAT IS MODEL.PY?

## >It was presents in the app folder

### >It contains the essential fields and behaviors of the data you're storing

### >Generally, each model maps to single database table

## CREATE USER:

### >>> python manage.py create superuser

### >>emailed, password, user id

# WHAT MIGRATION?

### >In Django migrations are a way to propagate changes to your models into your database

### >Migrations are designed to be mostly automatic, but you will need to know when to make migrations,and run them and common problems you might run into

## What migrations Do?

### It is used to create new tables or fields, modify existing tables or fields, delete tables or fields and manage changes to indexes and constaints

## How Migrations Work?

### They are made up of one or more operation objects, which declaratively record what the migration should do to your database.

### Django uses these objects to automaticall write

### >TO make Django “makemigrations”

### >It is used to package the model changes into individual migration files

### >To run we use “migrate” command to apply the migration files to your database

# ADMIN.PY:

### >In Django admin.py is file where you can register models in the admin interface

### >We can also customize the admin interface to make it easier to use

1.adding additional fields or information for each record

2.adding filters to select records based on data or other selection value

3.adding additional option to the action menu in list views

# WHAT IS APPS.PY?

### >The application server takes the installed\_apps and loads or generates an appconfig object for each app.

### >This collection of appconfig objects are then stored in an instance of the apps class

### >Well an AppConfig classes so that Django can find them

# MODELS.PY:

### >It defines the structure of the application database

### >It is basically a class that represents the tables or collection in our database.

### >Which contains all the information regarding the table

### >These models are stored together in Django in file models.py in our app

### >It automatically generates a database access API for models

# SETTINGS.PY:

### >The settings.py file is a python module in the root directory of a Django project that contains the variables used to configure the project

VARIABLES

DATABASE

LOCAL SETTING

# URL.PY:

### >Django has a urls.py file under the project by default.

### > It also has a prep-defined path for the admin app. However Django recommends mapping all resources via another urls.py newly created under the app

# VIEWS.PY:

### >In the Django framework, views are python function or classes that receive a web request and return a web response

### >The response can be a simple HTTP response an HTML template response or an HTTP redirect response that redirects a user to another page