Django installation step by step

https://docs.djangoproject.com/en/2.1/topics/install/#installing-development-version

1. pip install Django

if pip is not installed than download pip by

https://pip.pypa.io/en/latest/installing/#installing-with-get-pip-py

if path is not set than set path

C:\Users\username\AppData\Local\Programs\Python\Python36-32.;

C:\Users\username\AppData\Local\Programs\Python\Python36-32\Scripts;

pip install Django

python -m django --version

django-admin startproject projectname

python manage.py runserver

Create App in Django Project:-

**python manage.py startapp appname**

app is used to create different modules of project for example if project contain admin and customer part than we will create admin and customer dashboard manually.

Than we create two different modules.

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Register app under settings.py file of root project

Installed\_apps= [‘modulename’]

Create urls.py file in studentapp and facultyapp

Define urls.py under studentapp and facultyapp

Define root urls.py

Add studentapp url and faultyapp url

Define views.py file of student and faculty

Run

python manage.py migrate

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Database Connectivity in django

Check database configuration

Settings.py

Check databases block sqlite

python manage.py migrate

to enable all settings and config

python manage.py makemigrations appname

to register new app in settings.py

under installed\_apps section

open app and edit models.py

create class to declare respective field

run makemigration command

python manage.py makemigrations appname

run sql migration command to create table in sqlite

python manage.py sqlmigrate appname 0001

run complete migrations command

python manage.py migrate

open shell and do practice of select,insert,update and delete command syntax

python manage.py shell

ADMIN DASHBOARD :-

python manage.py createsuperuser

type

localhost:8000/admin

userid:- admin

password:- abcd1234

How we add Model Object into admin dashboard?

1 GO INTO APP

2 Open admin.py

3

**from** **.models** **import** ModelClassName

admin.site.register(ModelClassName)

4 Convert Obejct Data to String than override \_\_str\_\_ method in class

SESSION SYNTAX is DJANGO

SET DATA in SESSION:-

request.Session['key'] = value

GET DATA FROM SESSION:-

data=request.session['key']

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How we design template page in django:-

Template is used to provide userinterface in django application.

Create templates folder than create appfolder than create html file and call this html under view method

def index(request):

return render(request, 'appname/pagename)

image path

static/appname/imgfolder/filename

static/appname/cssfolder/cssfile

static/appname/jsfolder/jsfile

template path

templates/appname/

{% load static %}

<img src="{% static 'appname/imgfoldername/filename' %}" height="70px; width:240px;" />