**Django Tutorial**

* **Create a django project**
  + Django-admin startproject project\_name
* **Create a django APP**
  + Python manage.py startapp app\_name
* **Starting a Development Server**
  + Python manage.py runserver or
  + Python manage.py runserver port\_code like 4443
* **Folder structure of django**
  + Create Template folder for storing html files
  + Create static folder for storing static files like css, javascript and images files
  + Create media folder for storing dynamic files like uploaded files
* **How to Migrate default Migrations**
  + Python manage.py makemigrations command use when create new model
  + Python manage.py migrate use after above command
* **Install DB browser for SQLite**
  + <https://sqlitebrowser.org/dl/>
* **Create Superuser in django**
  + Python manage.py createsuperuser view on user table in db browser for SQLite
  + **User:** user\_name
  + **Email:** enter email
  + **Password:** enter password
* **Types of URLs and Views**

**URLs (Route)**

* + <https://www.wscubetech.com/> show starting page
  + <https://www.wscubetech.com/blog/> show list of all posts
  + <https://www.wscubetech.com/blog/singlepost> show specify post

**Views**

The logic is executed for different URLs (https Method)

**Types**  Functions Class

Prepare and return response data (eg. html)

* **Create URLs and Views in django**

Create a views.py file in main folder

*from* django.http *import* HttpResponse

def aboutUs(*request*):

*return* HttpResponse("Welcome to Haroon World")

move in urls.py file and create a path

*from* main\_folder\_name *import* views

path('about-us/', views.aboutUs)

* **Create a dynamic URLs in django**
  + **Types:** int (eg. 436) str (eg.hello) slug (eg. Hello-hr-iip)

Create a views.py file in main folder

def Course(*request*):

*return* HttpResponse("Welcome to Haroon Rasheed World")

def coursedetails(*request*, *courseid*):

*return* HttpResponse(*courseid*)

move on urls.py file and create a path

*from* main\_folder\_name *import* views

path('course/<int:courseid>', views.coursedetails)

* **How to render an HTML Template as Response**
  + Create templates folder for storing html files then move to setting.py file and go to templates list and then go ‘DIRS’ dictionary write it [BASE\_DIR, “templates”], then go views.py file and import render like “from django.shortcuts import render” after this create a function

*from* django.shortcuts *import* render

def homepage(*request*):

*return* render(*request*, "index.html")

then go to urls file and create a path

path(‘’, views.homepage)

* **How to pass data from django views.py file to template html files**

Views file

def homepage(*request*):

    data = {

        'title': "Home new-page",

    'bdata': "Welcome to Haroon World"

    }

*return* render(*request*, "index.html", data)

target to html file

<title>{{title}}</title>

<div class="main">{{bdata}}</div>

* **Using django template for loop**

Views file

def homepage(*request*):

    data = {

        'title': "Home new-page",

        'bdata': "Welcome to Haroon World",

        'clist': ['python','javascript','django','mysql'],

        'student\_details':[

            {'name': "Haroon", 'phone': 3187040877, 'city': "Faisalabad"},

            {'name': "Rasheed", 'phone': 3338392188, 'city': "Lahore"}

        ]

    }

*return* render(*request*, "index.html", data)

Target to html file in template folder

{% *for* n *in* clist %}

    <div>{{forloop.first}} {{n}}</div>

     {% *endfor* %}

    <br/>

     <table border="1" cellpadding="10">

        <tr>

            <th>name</th>

            <th>phone Number</th>

            <th>city</th>

        </tr>

        {% *for* d *in* student\_details %}

        <tr>

            <td>{{d.name}}</td>

            <td>{{d.phone}}</td>

            <td>{{d.city}}</td>

        </tr>

        {% *endfor* %}

     </table>

* **Django template using if…elif…else**

Views file

def homepage(*request*):

    data = {

        'num': [12,23,34,43,56,64,76,87,92]

    }

*return* render(*request*, "index.html", data)

Target to html file in template folder

{% *if* num|length > 0 %}

    {% *for* n *in* num %}

        {% *if* n > 25 %}

            <div>{{n}}</div>

        {% *endif* %}

    {% *endfor* %}

    {% *else* %}

        No Data Found

    {% *endif* %}

* **Managing static files (eg. Images, javascript, css)**

Put in setting.py file

STATICFILES\_DIRS = [BASE\_DIR, “static”]

Then go to images, css and javascript files and correct the srcs like start with /static

* **Implement GET Method Form in django**

Link html file using views.py and urls.py and then write syntax in views.py

def userform(*request*):

    finalans = 0

*try*:

        n1 = int(*request*.GET.get('name'))

        n2 = int(*request*.GET.get('email'))

        finalans = n1 + n2

*except*:

*pass*

*return* render(*request*, "userform.html",{'output':finalans})

* **Post method with CSRF Token**

Csrf token create in html file

<form id="simpleForm" method="post">

            {% *csrf\_token* %}

and move to views.py file

def userform(*request*):

    finalans = 0

    data = {}

*try*:

*if* *request*.method=="POST":

            n1 = int(*request*.POST.get('name'))

            n2 = int(*request*.POST.get('email'))

*# n3 = int(request.GET.get('massage'))*

            finalans = n1 + n2

            data = {

                'n1': n1,

                'n2': n2,

                'output': finalans

            }

*except*:

*pass*

*return* render(*request*, "userform.html", data)

* **Page redirect in django**

Import module in views.py

*from* django.http *import* HttpResponse, HttpResponseRedirect

def aboutUs(*request*): this is next page

*if* *request*.method=="GET":

        output=*request*.GET.get('output')

*return* render(*request*,"aboutus.html",{'output': output})

NOT COMPLETE PLEASE WATCH VIDEO 27 AGAIN

*return* HttpResponseRedirect('/page\_name/') :. Jha per next page open ho