**Process to create Project**

Step 1: Open folder to create project

**C:\Users\kisan\Desktop\PycharmProjects>**

Step 2: Create virtual environment

**python –m venv VirtualEnvironmentName**

Step 3: Get into folder of virtual environment

**cd VirtualEnvironmentName**

Step 4: activate virtual environment

**.\Scripts\activate**

Steps 5: Install Django

**pip install django**

This will install following package:

**asgiref 3.4.1, Django 4.0 , sqlparse 0.4.2, tzdata 2021.5**

Step 6: Create Django Project

**Django-admin startproject ProjectName**

Step 7: Create Application

**python manage.py startapp ApplicationName**

Steps 8: Register Application in setting.py

**INSTALLED\_APPS = [ ‘App1’, ‘App2’, …]**

Step 9: Copy Project level urls.py files in each Application

Step 10: Create “templates” and “static” directory

Templates: contains presentation logic such as html

static: contain static files such as css,images

Step 11: Calculate BASE\_DIR and join with templates in setting.py

**TEMPLATES\_DIR = Path.joinpath(BASE\_DIR, ‘templates’)**

Step 12: Register TEMPLATE\_DIR into setting.py

**TEMPLATES = [ {**

**‘DIRS’ : [ TEMPLATES\_DIR]**

**} ]**

Steps 13: Create HTML page in templates inside ApplicationName folder

Each HTML belong to particular Application are created inside same ApplicationName file.

Steps 14: Create views in views.py

**from django.shortcuts import render**

**def show(request):**

**return render(request,’Employee/welcome.html’)**

**django.shortcuts**

**def render(request: Any,**

**template\_name: Any,**

**context: Any = None,**

**content\_type: Any = None,**

**status: Any = None,**

**using: Any = None)** -> HttpResponse

Return an HttpResponse whose content is filled with the result of calling django.template.loader.render\_to\_string() with the passed arguments

Step 15: Project level urls.py

**from django.urls import path, include**

**urlpatterns = [ path(‘employee/’, include(‘App1.urls’) ]**

**django.urls.conf**

**def include(arg: Any, namespace: Any = None) -> tuple[ModuleType, bool | None, bool | None]**

**django.urls.conf path: partial[URLResolver | URLPattern] = partial(\_path, Pattern=RoutePattern)**

Step 16: Application level urls.py

**from django.urls import path**

**from App1 import views**

**urlpatterns = [ path(‘welcome/’, include(‘App1.urls’) ]**

“””

Function views  
 1. Add an import: from my\_app import views  
 2. Add a URL to urlpatterns: path('', views.home, name='home')  
Class-based views  
 1. Add an import: from other\_app.views import Home  
 2. Add a URL to urlpatterns: path('', Home.as\_view(), name='home')  
Including another URLconf  
 1. Import the include() function: from django.urls import include, path  
 2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))

“””

Step 17: To run the server

**python manage.py runserver**