**Below are steps to do the project:**

**🡪Set up Environment:**

1. Install Python
2. Install Django ( pip install django )
3. Install Django Rest Framework ( pip install djangorestframework )

🡪**Create Project:**

1. Open command prompt and Install the Django Project

( **Django-admin startproject myproject** )

1. Change directory to project ( **cd myproject** )
2. Create the Django application ( **python manage.py startapp app1 )**

**🡪Configure Mysql database:**

1. Open mysql command prompt create a new database ( **CREATE DATABASE PROJECT )**
2. Open the setting.py in Django project and update the database section

**setting.py**

**DATABASES = {**

**'default': {**

**'ENGINE': 'django.db.backends.mysql',**

**'NAME': 'mydatabase',**

**'USER': 'your\_mysql\_user',**

**'PASSWORD': 'your\_mysql\_password',**

**'HOST': 'localhost',**

**'PORT': '3306',**

**}**

**}**

1. In setting.py update the installed apps , app1, rest\_framework

**setting.py**

**INSTALLED\_APPS = [**

**...**

**'myapp',**

**'rest\_framework',**

**]**

1. Open the modesls.py and create the model

**models.py**

**rom django.db import models**

**# Create your models here.**

**class User(models.Model):**

**Name = models.CharField(max\_length=255)**

**Phone = models.BigIntegerField(max\_length=20)**

**Email = models.EmailField(max\_length=255)**

1. Migrate the database use below commands

**python manage.py makemigrations**

**python manage.py migrate**

1. Next create View.py for Your API

**View.py**

**from django.shortcuts import render**

**from app1.models import \***

**# Create your views here.**

**def home\_view(request):**

**response=render(request, "app1/home.html")**

**return response**

**def display\_template(request):**

**response = render(request, "app1/index.html")**

**return response**

**def display\_data(request):**

**n=request.GET['name']**

**p = request.GET['ph']**

**e = request.GET['email']**

**try:**

**u = User(Name=n, Phone=p, Email=e)**

**u.save()**

**msg = "Details send successfully.......!"**

**except:**

**msg = "Invalid Details"**

**response = render(request, "app1/index.html", context={'msg':msg})**

**return response**

**def user\_search\_template(request):**

**response = render(request, "app1/search.html")**

**return response**

**def user\_search\_data(request):**

**context = {}**

**if 'search' in request.GET:  # Check if 'search' parameter exists in the GET request**

**search\_term = request.GET['search']  # Extract the search term (phone number)**

**try:**

**# Check if the search term is a numberr**

**if search\_term.isdigit() or len(search\_term) ==10:**

**# Search by phone number**

**user = User.objects.get(Phone=search\_term)  # Assuming 'Phone' is the field name in your model**

**context['user'] = user**

**# else:**

**#     context['number\_error']='Invalid mobile number'**

**#     response = render(request, 'app1/search.html', context)**

**#     return response**

**elif search\_term.isalnum():**

**# Search by name**

**user = User.objects.get(Name=search\_term)**

**# If user is found, add details to the context**

**context['user'] = user**

**except User.DoesNotExist:**

**context['number\_error'] = 'Invalid mobile number'**

**response = render(request, 'app1/search.html', context)**

**return response**

**finally:**

**context['spam'] = 'This number is spam.'**

**return render(request, "app1/res.html", context)**

1. Next step is set Up the url.py

**from django.contrib import admin**

**from django.urls import path**

**from app1.views import \***

**urlpatterns = [**

**path('admin/', admin.site.urls),**

**path('', home\_view),**

**path('store\_data/', display\_template),**

**path('send/', display\_data),**

**path('search\_bar/', user\_search\_template),**

**path('search/', user\_search\_data),**

**]**

**🡪Create the Html pages:**

1. In myproject directory create a folder “templates”
2. Next create app1 folder in templates folder
3. In app1 folder create the html pages.

**home.html**

**<!DOCTYPE html>**

**{% load static%}**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Document</title>**

**<link rel="stylesheet" href="{% static 'css/home.css' %}">**

**</head>**

**<body>**

**<div>**

**<h1>Welcome to My Website</h1>**

**<div class="button-container">**

**<button><a href="/store\_data">Store Data</a></button>**

**<button><a href="/search\_bar">Search Data</a></button>**

**</div>**

**</div>**

**</body>**

**</html>**

**Index.html**

**<!DOCTYPE html>**

**{% load static%}**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Document</title>**

**<link rel="stylesheet" href="{% static 'css/index.css' %}">**

**</head>**

**<body>**

**<form action="/send">**

**Name:<input type="text" name="name" id="" required>**

**Phone Number: <input type="text" name="ph" id=""  required>**

**Email Address: <input type="text" name="email" id="">**

**<input type="submit" value="send"> <br> <br>**

**{{msg}}**

**</form>**

**</body>**

**</html>**

**Search.html**

**<!DOCTYPE html>**

**{% load static%}**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8" />**

**<meta name="viewport" content="width=device-width, initial-scale=1.0" />**

**<title>Document</title>**

**<link rel="stylesheet" href="{% static 'css/search.css' %}">**

**</head>**

**<body>**

**<form action="/search">**

**Search: <input type="text" name="search" id="" placeholder="Enter name or phone\_number"  required />**

**<input type="submit" value="search" />**

**<br><br>**

**<p class="error">{{ number\_error }}</p>**

**</form>**

**</body>**

**</html>**

**res.html**

**<!DOCTYPE html>**

**{% load static%}**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Document</title>**

**<link rel="stylesheet" href="{% static 'css/res.css' %}">**

**</head>**

**<div class="container">**

**{% if error %}**

**<p class="error">{{ error }}</p>**

**{% endif %}**

**{% if user %}**

**<div>**

**<h2>User Details</h2>**

**<ul>**

**<li><strong>Name:</strong> {{ user.Name }}</li>**

**<li><strong>Phone Number:</strong>**

**{% if user.Phone|stringformat:"d"|length == 10 %}**

**{{ user.Phone }}**

**{% else %}**

**<span class="spam-number"> {{ spam }} </span>**

**{% endif %}**

**</li>**

**<li><strong>Email:</strong> {{ user.Email }}</li>**

**</ul>**

**</div>**

**{% endif %}**

**</div>**

**</html>**

* **Create the CSS files for the html pages**

1. In myproject directory create the folder static
2. In static folder create the folder “css”
3. In css create the css files for html pages

* **Configure the html and css in setting.py**

1. Open setting.py and configure the html and css files location

**TEMPLATES = [**

**{**

**'BACKEND': 'django.template.backends.django.DjangoTemplates',**

**'DIRS': [BASE\_DIR/"templates"],**

**}**

**STATIC\_URL = 'static/'**

**STATICFILES\_DIRS = [**

**os.path.join(BASE\_DIR, 'static'),  # Adjust path if needed**

**]**

* **Run the Server**

( **Python manage.py run server** )

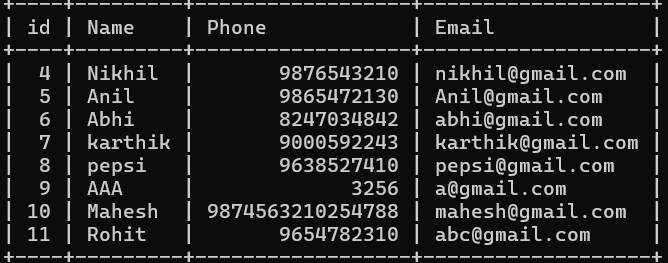
<http://127.0.0.1:8000/>

click on the link it will open the web pages.

* **Check the output if we search a number or name is it visible or not**

**🡪Data Base ( MYSQL ):**

1. I was Taken mysql data base
2. Sample database records



**“The End “**