**PGRM 1**

**View.py**

**def current\_datetime(request): now = datetime.datetime.now () context = {'datetime': now}**

**return render (request, 'current\_datetime.html', context)**

**templates**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Current Date and Time</title>

<!-- Bootstrap CSS -->

<link href=["https://](https://cdn.jsdelivr.net/npm/bootstrap%405.3.0-alpha1/dist/css/bootstrap.min.css)c[dn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"](https://cdn.jsdelivr.net/npm/bootstrap%405.3.0-alpha1/dist/css/bootstrap.min.css) rel="stylesheet">

<style>

/\* Center content vertically \*/ html, body {

height: 100%; display: flex;

justify-content: center; align-items: center;

}

</style>

</head>

<body>

<div class="container text-center">

<h1>Current Date and Time on the Server</h1>

<p>{{ datetime }}</p>

</div>

<!-- Bootstrap Bundle with Popper -->

<script src=["https://](https://cdn.jsdelivr.net/npm/%40popperjs/core%402.11.6/dist/umd/popper.min.js)c[dn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"><](https://cdn.jsdelivr.net/npm/%40popperjs/core%402.11.6/dist/umd/popper.min.js)/script>

<script src=["https://](https://cdn.jsdelivr.net/npm/bootstrap%405.3.0-)c[dn.jsdelivr.net/npm/bootstrap@5.3.0-](https://cdn.jsdelivr.net/npm/bootstrap%405.3.0-) alpha1/dist/js/bootstrap.min.js"></script>

</body>

</html>

**URL**

* Open the **urls.py** file in your Django app's directory (e.g., datetimeapp/urls.py).

**from django. urls import path from. import views urlpatterns = [**

**path ('', views. current\_datetime, name='current\_datetime'),**

**]**

**Step-06: Include the app's URLs in the project's URL patterns**

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

**path ('', include ('datetimeapp. urls')),**

.

**python manage.py runserver**

**PGRM 2**

**Create a view function**

**from django.shortcuts import render import datetime**

**from dateutil import tz**

**def datetime\_offsets(request): now = datetime.datetime.now() context = {**

**'current\_datetime': now,**

**'four\_hours\_ahead': now + datetime.timedelta(hours=4), 'four\_hours\_before': now - datetime.timedelta(hours=4),**

**}**

**return render(request, 'datetime\_offsets.html', context)**

**Create a new template**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Date and Time Offsets</title>

<!-- Bootstrap CSS -->

<link href=["https://](https://cdn.jsdelivr.net/npm/bootstrap%405.3.0-alpha1/dist/css/bootstrap.min.css)c[dn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"](https://cdn.jsdelivr.net/npm/bootstrap%405.3.0-alpha1/dist/css/bootstrap.min.css) rel="stylesheet">

<style>

/\* Center content vertically \*/ html, body {

height: 100%; display: flex;

justify-content: center; align-items: center;

}

</style>

</head>

<body>

<div class="container text-center">

<h1>Current Date and Time on the Server</h1>

<p>{{ current\_datetime }}</p>

<h2>Four Hours Ahead</h2>

<p>{{ four\_hours\_ahead }}</p>

<h2>Four Hours Before</h2>

<p>{{ four\_hours\_before }}</p>

</div>

<!-- Bootstrap Bundle with Popper -->

<script src=["https://](https://cdn.jsdelivr.net/npm/%40popperjs/core%402.11.6/dist/umd/popper.min.js)c[dn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"><](https://cdn.jsdelivr.net/npm/%40popperjs/core%402.11.6/dist/umd/popper.min.js)/script>

<script src=["https://](https://cdn.jsdelivr.net/npm/bootstrap%405.3.0-)c[dn.jsdelivr.net/npm/bootstrap@5.3.0-](https://cdn.jsdelivr.net/npm/bootstrap%405.3.0-) alpha1/dist/js/bootstrap.min.js"></script>

</body>

</html>

**Step-05: Map the view function to a URL**

* + Open the **urls.py** file in your Django app's directory (e.g., fourdate\_timeapp/urls.py).

**from django.urls import path from . import views urlpatterns = [**

**path('datetime-offsets/', views.datetime\_offsets, name='datetime\_offsets'),**

**]**

**Step-06: Include the app's URLs in the project's URL patterns**

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

**path('', include('fourdate\_timeapp.urls')),**

**python manage.py runserver**

**PGRM 3**

**Step-03: Create a view function**

**from django.shortcuts import render**

**def home(request):**

**fruits = ['Apple', 'Banana', 'Orange', 'Mango', 'Pineapple'] students = ['John', 'Jane', 'Mike', 'Sarah', 'Tom']**

**context = { 'fruits': fruits,**

**'students': students,**

**}**

**return render(request, 'home.html', context)**

**Step-04: Create a new template**

<!DOCTYPE html>

<html>

<head>

<title>Fruits and Students</title>

<!-- Add Bootstrap CSS -->

<link href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

<style>

/\* Center content vertically \*/ html, body {

height: 100%;

}

body {

display: flex;

justify-content: center; align-items: center;

}

.container {

text-align: center;

}

/\* Style for lists \*/

.list-container { display: inline-block;

margin: 0 20px; /\* Add space between lists \*/

}

</style>

</head>

<body>

<div class="container">

<div class="row">

<div class="col">

<h1>Fruits</h1>

<ul class="list-group list-container">

{% for fruit in fruits %}

<li class="list-group-item">{{ fruit }}</li>

{% endfor %}

</ul>

</div>

<div class="col">

<h1>Selected Students</h1>

<ol class="list-group list-container">

{% for student in students %}

<li class="list-group-item">{{ student }}</li>

{% endfor %}

</ol>

</div>

</div>

</div>

<!-- Bootstrap JS (optional) -->

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

</body>

</html>

**Step-05: Map the view function to a URL**

* Open the **urls.py** file in your Django app's directory (e.g., listfruitapp/urls.py).

**from django.urls import path from . import views urlpatterns = [**

**path('home/', views.home, name='home'),**

**]**

**Step-06: Include the app's URLs in the project's URL patterns**

* Open the **urls.py** file in your project's directory **(e.g., fullstack\_project/urls.py).**
* Import the include function from **django. urls** and the path function from **django. urls**: **from django.urls import include, path**
* Add a new URL pattern to the urlpatterns list

**path('', include(listfruitapp.urls')),**

* This includes the URL patterns from your app's **urls.py** file
* **python manage.py runserver**

**PGRM 4**

**Step-03: Create a new template**

* Inside the portfolioapp/templates/ portfolio directory, create the following files:

**layout.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>{% block title %}{% endblock %}</title>

<!-- Include Bootstrap CSS from CDN -->

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

<style>

/\* Add some basic styling \*/ body {

font-family: Arial, sans-serif; margin: 0;

padding: 0;

}

header {

background-color: #333; color: #fff;

padding: 10px;

text-align: center; /\* Center align header content \*/

}

nav ul {

list-style-type: none; margin: 0;

padding: 0;

display: inline-block; /\* Display nav items inline-block \*/

}

nav ul li { display: inline;

margin-right: 10px;

}

nav ul li a { color: #fff;

text-decoration: none;

}

footer {

background-color: #333; color: #fff;

padding: 10px;

text-align: center;

}

/\* Center align content \*/

.content-wrapper { display: flex;

justify-content: center; align-items: center;

min-height: 80vh; /\* Set minimum height for content area \*/

}

</style>

{% load static %}

</head>

<body>

<header>

<nav>

<ul>

<li><a href="{% url 'main' %}" style="text-decoration:none;">Home</a></li>

<li><a href="{% url 'about' %}" style="text-decoration:none;">About Us</a></li>

<li><a href="{% url 'contact' %}" style="text-decoration:none;">Contact Us</a></li>

</ul>

</nav>

</header>

<div class="content-wrapper">

{% block content %}

{% endblock %}

</div>

<footer>

<p>&copy; 2024 Search Creators. Developed by Hanumanthu.</p>

</footer>

<!-- Include Bootstrap JS from CDN (Optional) -->

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

</body>

</html>

**home.html**

{% extends 'portfolio/layout.html' %}

{% block title %}Home{% endblock %}

{% block extra\_css %}

<!-- Include Bootstrap CSS from CDN -->

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

<style>

/\* Custom CSS to center align content \*/

.center-content { display: flex;

justify-content: center;

align-items: center;

height: 80vh; /\* Set height to viewport height for full page centering \*/

}

.center-content > div { text-align: center;

}

</style>

{% endblock %}

{% block content %}

<div class="center-content">

<div>

<h1 class="text-center my-3">Welcome to My Website</h1>

<p class="text-center">This is the home page of our website.</p>

<img src="/static/images/1.webp" alt="images" class="img-fluid p-5" width="100%" height="580">

</div>

</div>

{% endblock %}

{% block extra\_js %}

<!-- Include Bootstrap JS from CDN (Optional) -->

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

{% endblock %}

**about.html**

{% extends 'portfolio/layout.html' %}

{% block title %}About Us{% endblock %}

{% block extra\_css %}

<!-- Include Bootstrap CSS from CDN -->

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

{% endblock %}

{% block content %}

<div class="container">

<div class="row justify-content-center">

<div class="col-md-8">

<h1 class="text-center">About Us</h1>

<p class="text-center">We are a company that provides awesome products and services.</p>

</div>

</div>

<!-- Service Images -->

<div class="row justify-content-center mt-5">

<div class="col-md-3 text-center">

<img src="/static/images/1.webp" alt="Service 1" class="img-fluid">

<p>Web Development</p>

</div>

<div class="col-md-3 text-center">

<img src="/static/images/2.jpeg" alt="Service 2" class="img-fluid">

<p>Boost Your Skill With ChatGPT</p>

</div>

<!-- Add more service images here -->

</div>

</div>

{% endblock %}

{% block extra\_js %}

<!-- Include Bootstrap JS from CDN (Optional) -->

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

{% endblock %}

**contact.html**

{% extends 'portfolio/layout.html' %}

{% block title %}Contact Us{% endblock %}

{% block extra\_css %}

<!-- Include Bootstrap CSS from CDN -->

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

{% endblock %}

{% block content %}

<div class="container">

<div class="row justify-content-center">

<div class="col-md-6">

<h1 class="text-center">Contact Us</h1>

<p class="text-center">You can reach us at:</p>

<ul class="list-unstyled">

<li class="text-center">Email: [contact@mywebsite.com</li](mailto:contact@mywebsite.com)>

<li class="text-center">Phone: 123-456-7890</li>

<li class="text-center">Address: 123 Main Street, City, State</li>

</ul>

</div>

</div>

</div>

{% endblock %}

{% block extra\_js %}

<!-- Include Bootstrap JS from CDN (Optional) -->

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

{% endblock %}

**Step-04: Create a view function**

* Open the views.py file in your Django app's directory (e.g., **portfolioapp/views.py**).

**from django.shortcuts import render def main(request):**

**return render(request, 'portfolio/home.html') def about(request):**

**return render(request, 'portfolio/about.html') def contact(request):**

**return render(request, 'portfolio/contact.html')**

**Step-05: Map the view function to a URL**

* Open the **urls.py** file in your Django app's directory (e.g., listfruitapp/urls.py).

**from django.urls import path from . import views urlpatterns = [**

**path('main/', views.main, name='main'), path('about/', views.about, name='about'), path('contact/', views.contact, name='contact'),**

**]**

**Step-06: Include the app's URLs in the project's URL patterns**

* Open the **urls.py** file in your project's directory **(e.g., fullstack\_project/urls.py).**

**from django.urls import include, path [if does not exits] path('', include(portfolioapp.urls')),**

* This includes the URL patterns from your app's **urls.py** file.

**Step-07: Run the development server**

**Python manage.py runserver**