develop a simple django app that displays an unordered list of fruits and ordered list of slected students for an event

1-> Goto same folder and activate your environment

Cmd--- .\myenv\Scripts\activate

2-> django-admin startproject listapp

cd listapp

3->python manage.py startapp lists

4->lists/models.py

from django.db import models

class Fruit(models.Model):

name = models.CharField(max\_length=100)

def \_\_str\_\_(self):

return self.name

class Student(models.Model):

name = models.CharField(max\_length=100)

def \_\_str\_\_(self):

return self.name

create user in command mode

**python manage.py createsuperuser**

5->list/admin.py

from django.contrib import admin

from .models import Fruit, Student

admin.site.register(Fruit)

admin.site.register(Student)

6->list/views.py

from django.shortcuts import render

from .models import Fruit, Student

def fruit\_list(request):

fruits = Fruit.objects.all()

return render(request, 'lists/fruit\_list.html', {'fruits': fruits})

def student\_list(request):

students = Student.objects.all()

return render(request, 'lists/student\_list.html', {'students': students})

7->lists/templates/lists/fruit\_list.html

<!DOCTYPE html>

<html>

<head>

<title>Fruit List</title>

</head>

<body>

<h1>Unordered List of Fruits</h1>

<ul>

{% for fruit in fruits %}

<li>{{ fruit.name }}</li>

{% endfor %}

</ul>

</body>

</html>

8->lists/templates/lists/student\_list.html

<!DOCTYPE html>

<html>

<head>

<title>Student List</title>

</head>

<body>

<h1>Ordered List of Selected Students</h1>

<ol>

{% for student in students %}

<li>{{ student.name }}</li>

{% endfor %}

</ol>

</body>

</html>

9-> List/urls.py

from django.urls import path

from . import views

urlpatterns = [

path('fruits/', views.fruit\_list, name='fruit\_list'),

path('students/', views.student\_list, name='student\_list'),

]

10-> Listsapp/urls.py

from django.contrib import admin

from django.urls import path, include

urlpatterns = [

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

path('lists/', include('lists.urls')),

]

11-> add ur app in listapp/settings.py

INSTALLED\_APPS = [

'django.contrib.admin',

'django.contrib.auth',

'django.contrib.contenttypes',

'django.contrib.sessions',

'django.contrib.messages',

'django.contrib.staticfiles',

'lists', # Add your app name here

]

Migration and database changes

python manage.py makemigrations

python manage.py migrate

restart or run server

python manage.py runserver

in browser

<http://127.0.0.1:8000/lists/students/>

<http://127.0.0.1:8000/lists/fruits/>

django-admin startproject mywebsite

cd mywebsite

python manage.py startapp pages

File: pages/urls.py

from django.urls import path

from . import views

urlpatterns = [

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

path('about/', views.about, name='about'),

path('contact/', views.contact, name='contact'),

]

Pages/views.py

from django.shortcuts import render

def home(request):

return render(request, 'home.html')

def about(request):

return render(request, 'about.html')

def contact(request):

return render(request, 'contact.html')

**File: pages/templates/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 %}My Website{% endblock %}</title>

<style>

/\* Basic CSS for layout \*/

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

box-sizing: border-box;

}

header {

background-color: #333;

color: #fff;

padding: 10px 0;

text-align: center;

}

nav {

display: flex;

justify-content: center;

}

nav a {

color: #fff;

text-decoration: none;

padding: 10px 20px;

}

nav a:hover {

background-color: #555;

}

footer {

background-color: #333;

color: #fff;

text-align: center;

padding: 10px 0;

position: absolute;

bottom: 0;

width: 100%;

}

</style>

</head>

<body>

<header>

<h1>My Website</h1>

<nav>

<a href="{% url 'home' %}">Home</a>

<a href="{% url 'about' %}">About Us</a>

<a href="{% url 'contact' %}">Contact Us</a>

</nav>

</header>

<div id="content">

{% block content %}

<!-- This block will be overridden by specific content of each page -->

{% endblock %}

</div>

<footer>

<p>&copy; {% now 'Y' %} My Website | Developed by Your Name</p>

</footer>

</body>

</html>

**home.html**

{% extends 'layout.html' %}

{% block title %}Home - My Website{% endblock %}

{% block content %}

<h2>Welcome to Our Home Page!</h2>

<p>This is the Home Page content of My Website.</p>

<!-- Add more content specific to the home page here -->

{% endblock %}

**about.html**

{% extends 'layout.html' %}

{% block title %}About Us - My Website{% endblock %}

{% block content %}

<h2>About Us</h2>

<p>Learn more about our company or organization.</p>

<!-- Add more content specific to the about page here -->

{% endblock %}

**contact.html**

{% extends 'layout.html' %}

{% block title %}Contact Us - My Website{% endblock %}

{% block content %}

<h2>Contact Us</h2>

<p>Get in touch with us using the form below or via other contact information.</p>

<!-- Add more content specific to the contact page here -->

{% endblock %}

**Mywebsit/urls.py**

from django.contrib import admin

from django.urls import path, include

urlpatterns = [

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

path('', include('pages.urls')), # Include the URLs from the pages app

]

**mywebsite/settings.py**

**add--- import os**

'DIRS': [os.path.join(BASE\_DIR, 'pages/templates')], #replacet this in templates

To run python manage.py runserver

<http://127.0.0.1:8000/home>