

develop a simple django app that displays an unordered list of fruits and ordered list of selected 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>