<https://www.youtube.com/watch?v=5BDgKJFZMl8&list=PLu0W_9lII9ah7DDtYtflgwMwpT3xmjXY9&index=1>

**Installation and Getting Started:-+**

pip install Django

create new project textutils

and now create app in it

if not worked use,

python -m django startproject <projectname>

python -m django startproject testutils

create views.py file in testutils

**Views and URLs in DJANGO:-**

In urls.py

from . import views

from . import views  
  
urlpatterns = [  
 path('admin/', admin.site.urls),  
 path('', views.index, name ="index"),  
]

and in views.py

def index():  
 return "Hello"

now when we run we get error as 

because by default we have to get request argument to index

# File is created manually by Sunny  
from django.http import HttpResponse  
  
def index(request):  
 return HttpResponse("Hello")



Now add about

Urls.py

urlpatterns = [  
 path('admin/', admin.site.urls),  
 path('', views.index, name ="index"),  
 path('about', views.about, name ="about"),  
]

Views.py

from django.http import HttpResponse  
  
def index(request):  
 return HttpResponse("Hello")  
  
def about(request):  
 return HttpResponse("About")

//Django first come in Urls.py -> then Views – runs function in views

def index(request):  
 return HttpResponse('''<h1>Hello</h1> <a href="https://getbootstrap.com/docs/5.3/examples/sign-in/"> Sunny's World </a>''')



Urls.py

urlpatterns = [  
 path('admin/', admin.site.urls),  
 path('', views.index, name ="index"),  
 path("removepunc", views.removepunc, name="rempun"),  
 path("capitalizefirst", views.capitalizefirst, name="capfirst"),  
 path("newlineremove", views.newlineremove, name="newlineremove"),  
 path("spaceremove", views.spaceremove, name="spaceremove"),  
 path("charcount", views.charcount, name="charcount"),  
]

Views.py

def index(request):  
 return HttpResponse("Home Page")  
  
def removepunc(request):  
 return HttpResponse('''removepunc <a href = "/"> Go Back to Home Page </a>''')  
  
def capitalizefirst(request):  
 return HttpResponse("capitalizefirst")  
  
def newlineremove(request):  
 return HttpResponse("newlineremove")  
  
def spaceremove(request):  
 return HttpResponse("spaceremove")  
  
def charcount(request):  
 return HttpResponse("charcount")



Add templates in settings.py







IF We want to render elements from dictionary into html page use







/

//Creating zHome Page for TextUtils







When we click on text analyze where is data gone , the page is redirected to removepunc page but we need to store the data somewhere so we use,

Name=”text”



Now when we click submit we see text in url as.





If we click on button without adding the data, it will take default7 as data







Will create Analyze method with multiple checkboxes on page

Index.html

<body>  
 <h1>Welcome to Text Analyzer, Enter your text below</h1>  
<!-- {{ Name }} is from {{ Place }}-->  
<form action='/analyze' method="get">  
 <textarea name="text" style="width: 1376px; height: 202px;">  
 </textarea>  
 <br>  
  
 <input type="checkbox" name="removepunc"> Remove Punctuations </input>  
 <br>  
  
 <button type="submit">  
 Analyze Text  
 </button>  
</form>  
  
</body>

//here action will be analyze,it will goto analyze method

Views.py

def analyze(request):  
 djtext = request.GET.get("text","default")  
 removepunc = request.GET.get("removepunc", "off") #off means default will not be printed in console  
 print(djtext)  
 print(removepunc)  
 if removepunc == "on":  
 punctuations\_list = '''!()-{}[];"'"\,<>./?@#$%^&\*\_~'''  
 analyzed = ""  
 for char in djtext:  
 if char not in punctuations\_list:  
 analyzed = analyzed + char  
 params = {"purpose" : "Removed Punctuations from Sentence", "analyzed\_text" : analyzed}  
 return render(request, "analyze.html", params)  
 else:  
 return HttpResponse("Error")

analyze.html

<body>  
<!-- {{ Name }} is from {{ Place }}-->  
Analyzed Text - {{ purpose }}  
<br><br>  
Final sentence is as below,  
<p>  
 <strong>  
 {{ analyzed\_text }}  
 </strong>  
</p>  
</body>

Adding more featires to textutils website

Added feature of Upper case to full sentence

def analyze(request):  
 # Get the Text  
 djtext = request.GET.get("text","default")  
  
 # Check checkbox value  
 removepunc = request.GET.get("removepunc", "off") #off means default will not be printed in console  
 full\_caps = request.GET.get("full\_caps", "off")  
 print(djtext)  
 print(removepunc)  
  
 # CHeck which checkbox is on  
 if removepunc == "on":  
 punctuations\_list = '''!()-{}[];"'"\,<>./?@#$%^&\*\_~'''  
 analyzed = ""  
 for char in djtext:  
 if char not in punctuations\_list:  
 analyzed = analyzed + char  
 params = {"purpose" : "Removed Punctuations from Sentence", "analyzed\_text" : analyzed}  
 return render(request, "analyze.html", params)  
 elif (full\_caps == "on"):  
 analyzed = ""  
 for char in djtext:  
 analyzed = analyzed + char.upper()  
 params = {"purpose": "Text in Upper Case", "analyzed\_text": analyzed}  
 return render(request, "analyze.html", params)  
 else:  
 return HttpResponse("Error")

index.html

<form action='/analyze' method="get">  
 <textarea name="text" style="width: 1376px; height: 202px;">  
 </textarea>  
 <br>  
 <input type="checkbox" name="removepunc"> Remove Punctuations </input> <br>  
 <input type="checkbox" name="full\_caps"> Upper Case </input>  
 <br>  
  
 <button type="submit">  
 Analyze Text  
 </button>  
</form>

Index.html

<input type="checkbox" name="full\_caps"> Upper Case </input><br>  
<input type="checkbox" name="new\_line\_remover"> New Line Remover</input> <br>  
<input type="checkbox" name="extra\_space\_remover"> Extra Space Remover</input>

Views.py

def analyze(request):  
 # Get the Text  
 djtext = request.GET.get("text","default")  
  
 # Check checkbox value  
 removepunc = request.GET.get("removepunc", "off") #off means default will not be printed in console  
 full\_caps = request.GET.get("full\_caps", "off")  
 new\_line\_remover = request.GET.get("new\_line\_remover", "off")  
 extra\_space\_remover = request.GET.get("extra\_space\_remover", "off")  
 print(djtext)  
 print(removepunc)  
  
 # CHeck which checkbox is on  
 if removepunc == "on":  
 punctuations\_list = '''!()-{}[];"'"\,<>./?@#$%^&\*\_~'''  
 analyzed = ""  
 for char in djtext:  
 if char not in punctuations\_list:  
 analyzed = analyzed + char  
 params = {"purpose" : "Removed Punctuations from Sentence", "analyzed\_text" : analyzed}  
 return render(request, "analyze.html", params)  
 elif (full\_caps == "on"):  
 analyzed = ""  
 for char in djtext:  
 analyzed = analyzed + char.upper()  
 params = {"purpose": "Text in Upper Case", "analyzed\_text": analyzed}  
 return render(request, "analyze.html", params)  
 elif (new\_line\_remover == "on"):  
 analyzed = ""  
 for char in djtext :  
 if char != "\n":  
 analyzed = analyzed + char  
 params = {"purpose": "Remove New Line", "analyzed\_text": analyzed}  
 return render(request, "analyze.html", params)  
 elif (extra\_space\_remover == "on"):  
 analyzed = ""  
 for index, char in enumerate(djtext):  
 if djtext[index] == " " and djtext[index+1] == " ":  
 pass  
 else:  
 analyzed = analyzed + char  
 params = {"purpose": "Extra space removed from sentence", "analyzed\_text": analyzed}  
 return render(request, "analyze.html", params)  
 else:  
 return HttpResponse("Error")

Changed UI – Added Bootstrap

<!doctype html>  
<html lang="en">  
 <head>  
 <meta charset="utf-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1">  
 <title>Text Utils</title>  
 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65" crossorigin="anonymous">  
 </head>  
 <body>  
<nav class="navbar navbar-expand-lg dark">  
 <div class="container-fluid">  
 <a class="navbar-brand" href="#">Text Utils</a>  
 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle navigation">  
 <span class="navbar-toggler-icon"></span>  
 </button>  
 <div class="collapse navbar-collapse" id="navbarNavDropdown">  
 <ul class="navbar-nav">  
 <li class="nav-item">  
 <a class="nav-link active" aria-current="page" href="/">Home</a>  
 </li>  
 <li class="nav-item">  
 <a class="nav-link" href="#">About Us</a>  
 </li>  
 <li class="nav-item">  
 <a class="nav-link" href="#">Contact Us</a>  
 </li>  
  
 </ul>  
 </div>  
 </div>  
 <form class="d-flex" role="search">  
 <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">  
 <button class="btn btn-outline-success" type="submit">Search</button>  
 </form>  
</nav>  
  
<div class="alert alert-success alert-dismissible fade show" role="alert">  
 <strong>Welcome to Text Utils!</strong> You can do anything with text here.  
 <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>  
</div>  
  
  
<div class="container">  
 <form action='/analyze' method="get">  
 <div class="mb-3">  
 <label for="exampleFormControlTextarea1" class="form-label">Enter Your Text Here and let textutils do the magic:- </label>  
 <textarea name="text" class="form-control" id="exampleFormControlTextarea1" rows="9"></textarea>  
 </div>  
  
  
 <div class="form-check form-switch">  
 <input class="form-check-input" name="removepunc" type="checkbox" role="switch" id="flexSwitchCheckChecked1" \>  
 <label class="form-check-label" for="flexSwitchCheckChecked">Remove Punctuations</label>  
 </div>  
 <div class="form-check form-switch">  
 <input class="form-check-input" name="full\_caps" type="checkbox" role="switch" id="flexSwitchCheckChecked2" \>  
 <label class="form-check-label" for="flexSwitchCheckChecked">Upper Case</label>  
 </div>  
 <div class="form-check form-switch">  
 <input class="form-check-input" name="new\_line\_remover" type="checkbox" role="switch" id="flexSwitchCheckChecked3" >  
 <label class="form-check-label" for="flexSwitchCheckChecked">New Line Remover</label>  
 </div>  
 <div class="form-check form-switch">  
 <input class="form-check-input" name="extra\_space\_remover" type="checkbox" role="switch" id="flexSwitchCheckChecked4" >  
 <label class="form-check-label" for="flexSwitchCheckChecked">Extra Space Remover</label>  
 </div>  
 <div class="form-check form-switch">  
 <input class="form-check-input" name="char\_count" type="checkbox" role="switch" id="flexSwitchCheckChecked5" >  
 <label class="form-check-label" for="flexSwitchCheckChecked">Count Characters</label>  
 </div>  
 <button type = "submit" class = "btn btn-dark mt-2">Analyze Text</button>  
 </form>  
</div>  
  
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4" crossorigin="anonymous"></script>  
 <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js" integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3" crossorigin="anonymous"></script>  
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.min.js" integrity="sha384-cuYeSxntonz0PPNlHhBs68uyIAVpIIOZZ5JqeqvYYIcEL727kskC66kF92t6Xl2V" crossorigin="anonymous"></script>  
 </body>  
</html>

<!doctype html>  
<html lang="en">  
 <head>  
 <meta charset="utf-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1">  
 <title>Text Utils</title>  
 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65" crossorigin="anonymous">  
 </head>  
 <body>  
<nav class="navbar navbar-expand-lg dark">  
 <div class="container-fluid">  
 <a class="navbar-brand" href="#">Text Utils</a>  
 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle navigation">  
 <span class="navbar-toggler-icon"></span>  
 </button>  
 <div class="collapse navbar-collapse" id="navbarNavDropdown">  
 <ul class="navbar-nav">  
 <li class="nav-item">  
 <a class="nav-link active" aria-current="page" href="#">Home</a>  
 </li>  
 <li class="nav-item">  
 <a class="nav-link" href="#">About Us</a>  
 </li>  
 <li class="nav-item">  
 <a class="nav-link" href="#">Contact Us</a>  
 </li>  
  
 </ul>  
 </div>  
 </div>  
 <form class="d-flex" role="search">  
 <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">  
 <button class="btn btn-outline-success" type="submit">Search</button>  
 </form>  
</nav>  
  
<div class="alert alert-success alert-dismissible fade show" role="alert">  
 <strong>Success!!! Your text has been analyzed!</strong> You can do anything with text here.  
 <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>  
</div>  
  
  
<div class="container">  
Analyzed Text - {{ purpose }}  
<br><br>  
Final sentence is as below,  
 <p>  
 <strong>  
 {{ analyzed\_text }}  
 </strong>  
 </p>  
</div>  
  
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4" crossorigin="anonymous"></script>  
 <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js" integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3" crossorigin="anonymous"></script>  
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.min.js" integrity="sha384-cuYeSxntonz0PPNlHhBs68uyIAVpIIOZZ5JqeqvYYIcEL727kskC66kF92t6Xl2V" crossorigin="anonymous"></script>  
 </body>  
</html>

We need to remove BUG from website as when we add text and do remove punctuation





It removes new line also

But we don’t want it to remove new line

Cause is because HTML

As in analyze.html we r directly dumping it as

<div class="container">  
Analyzed Text - {{ purpose }}  
<br><br>  
Final sentence is as below,  
 <p>  
 <strong>  
 {{ analyzed\_text }}  
 </strong>  
 </p>  
</div>

So we have to use <pre> tag in html as it automatically adds same text

<strong>  
<pre>{{ analyzed\_text }} </pre>  
 </strong>

Output now



**Django CSRF Token and Post request:-**

Post request sends additional data to server in message body



When we send unlimited data



So we need to send this type of data as POST request

Change get method to POST in views.py

def analyze(request):  
 # Get the Text  
 djtext = request.POST.get("text","default")

and in index.html use post instead of get





<div class="container">  
 <form action='/analyze' method="post">  
 {% csrf\_token %}

Change GET to POST

# Check checkbox value  
removepunc = request.POST.get("removepunc", "off") #off means default will not be printed in console  
full\_caps = request.POST.get("full\_caps", "off")  
new\_line\_remover = request.POST.get("new\_line\_remover", "off")  
extra\_space\_remover = request.POST.get("extra\_space\_remover", "off")  
char\_count = request.POST.get("char\_count", "off")  
print(djtext)



Now working!!!



elif (new\_line\_remover == "on"):  
 analyzed = ""  
 for char in djtext :  
 if char != "\n" and char != "\r":

new line remover was not working so we add “\r”

now working!!

Now I want to use multiple features at once

def analyze(request):  
 # Get the Text  
 djtext = request.POST.get("text","default")  
  
 # Check checkbox value  
 removepunc = request.POST.get("removepunc", "off") #off means default will not be printed in console  
 full\_caps = request.POST.get("full\_caps", "off")  
 new\_line\_remover = request.POST.get("new\_line\_remover", "off")  
 extra\_space\_remover = request.POST.get("extra\_space\_remover", "off")  
 char\_count = request.POST.get("char\_count", "off")  
 # print(djtext)  
 # print(removepunc)  
  
 # CHeck which checkbox is on  
 if removepunc == "on":  
 punctuations\_list = '''!()-{}[];"'"\,<>./?@#$%^&\*\_~'''  
 analyzed = ""  
 for char in djtext:  
 if char not in punctuations\_list:  
 analyzed = analyzed + char  
 params = {"purpose" : "Removed Punctuations from Sentence", "analyzed\_text" : analyzed}  
 # return render(request, "analyze.html", params)  
 djtext = analyzed  
 # elif (full\_caps == "on"):  
 if (full\_caps == "on"):  
 analyzed = ""  
 for char in djtext:  
 analyzed = analyzed + char.upper()  
 params = {"purpose": "Text in Upper Case", "analyzed\_text": analyzed}  
 # return render(request, "analyze.html", params)  
 djtext = analyzed  
 if (new\_line\_remover == "on"):  
 analyzed = ""  
 for char in djtext :  
 if char != "\n" and char != "\r":  
 analyzed = analyzed + char  
 params = {"purpose": "Remove New Line", "analyzed\_text": analyzed}  
 # return render(request, "analyze.html", params)  
 djtext = analyzed  
 if (extra\_space\_remover == "on"):  
 analyzed = ""  
 for index, char in enumerate(djtext):  
 if djtext[index] == " " and djtext[index+1] == " ":  
 pass  
 else:  
 analyzed = analyzed + char  
 params = {"purpose": "Extra space removed from sentence", "analyzed\_text": analyzed}  
 # return render(request, "analyze.html", params)  
 djtext = analyzed  
 if (char\_count == 'on'):  
 analyzed= 0  
 count = 0  
 for i in djtext:  
 if i!=" ":  
 count += 1  
 analyzed = analyzed + count  
 params = {"purpose": "Counted Characters are, ", "analyzed\_text": analyzed}  
 # return render(request, "analyze.html", params)  
  
 if (removepunc != "on" and full\_caps != "on" and new\_line\_remover != "on" and extra\_space\_remover != "on" and char\_count != "on"):  
 return HttpResponse("Please select operation atleat select one")  
 # else:  
 # return HttpResponse("Error")  
 return render(request, "analyze.html", params)

Hosted on github - <https://github.com/yash9151/textutils_website>

Website 2 :- Ecommerce Website

Create new Project Named – MyAwesomeCart

python -m django startproject mac





http://127.0.0.1:8000/



python manage.py startapp shop

python manage.py startapp blog





Now add urls.py and views.py in both apps blog and shop

Shop\urls.py

from django.urls import path  
from . import views  
  
urlpatterns = [  
 path('', views.index, name="ShopHome"),  
]

Shop\views.py

from django.http import HttpResponse  
# Create your views here.  
def index(request):  
 return HttpResponse("Index Shop")

Blog\urls.py

from django.shortcuts import render  
from django.shortcuts import HttpResponse  
# Create your views here.  
def index(request):  
 return HttpResponse("In Blog Home Page")

Blog\views.py

from django.shortcuts import render  
from django.shortcuts import HttpResponse  
# Create your views here.  
def index(request):  
 return HttpResponse("In Blog Home Page")

Also create templates folder in both



Again create folder in templets in both name accrodinglt to appname

As,

same for Shop 

Now we need to add our app in installed apps in main project

Mac\Settings,py

INSTALLED\_APPS = [  
 'django.contrib.admin',  
 'django.contrib.auth',  
 'django.contrib.contenttypes',  
 'django.contrib.sessions',  
 'django.contrib.messages',  
 'django.contrib.staticfiles',  
 'blog',  
 'shop'  
]

Create index.html in templte\blog folder

Copy starter templte in it

Now in

Blog\views.py render it

from django.shortcuts import render  
from django.shortcuts import HttpResponse  
# Create your views here.  
def index(request):  
 return render(request, "blog/index.html")

Doing same for shop app

Shop\views.py

from django.shortcuts import render  
from django.http import HttpResponse  
# Create your views here.  
def index(request):  
 return render(request, "shop/index.html")

Create Static directory in both





Mystatic.txt

This is my\_static file in blog.

To load static files in Django we use

<h1>Hello, world!</h1>  
{% load static %}  
<a href="{%static 'blog/mystatic.txt' %}"> CLick Me</a>





Now created methods in shop\urls.py

from django.urls import path  
from . import views  
  
urlpatterns = [  
 path('', views.index, name="ShopHome"),  
 path('about/', views.about, name="AboutUs"),  
 path('contact', views.contact, name="ContactUs"),  
 path('tracker', views.tracker, name="TrackingStatus"),  
 path('search', views.search, name="Search"),  
 path('productview', views.prodView, name="ProductView"),  
 path('checkout', views.checkout, name="Checkout"),  
]

shop\views.py

from django.shortcuts import render  
from django.http import HttpResponse  
# Create your views here.  
def index(request):  
 return render(request, "shop/index.html")  
  
def about(request):  
 return HttpResponse("We are in about page of shop")  
  
def contact(request):  
 return HttpResponse("We are in contact page of shop")  
  
def tracker(request):  
 return HttpResponse("We are in tracker page of shop")  
  
def search(request):  
 return HttpResponse("We are in search page of shop")  
  
def prodView(request):  
 return HttpResponse("We are in productview page of shop")  
  
def checkout(request):  
 return HttpResponse("We are in checkout page of shop")

//Now will create templates for all pages

//Models in Django

python manage.py migrate

//this will create tables which are needed in project i.e, change we done in models will get saved without changing database

//if we apply migrations then it will change tables

Shop\Models.py

class Product(models.Model):  
 product\_id = models.AutoField  
 product\_name = models.CharField(max\_length=50)  
 desc = models.CharField(max\_length=300)  
 pub\_date = models.DateField()

as in apps.py of shop app we can see

class ShopConfig(AppConfig):  
 default\_auto\_field = 'django.db.models.BigAutoField'  
 name = 'shop'

so in main projects settings.py file we can add this,

INSTALLED\_APPS = [  
 'django.contrib.admin',  
 'django.contrib.auth',  
 'django.contrib.contenttypes',  
 'django.contrib.sessions',  
 'django.contrib.messages',  
 'django.contrib.staticfiles',  
 'blog',  
 'shop.apps.ShopConfig'  
]

> python manage.py makemigrations





//this is changed so store it in database, change is tables is added named Product



Now to check whether everthing is good in database , we need to be admin

SO will create SuperUserto see Models in database



Password = sunny

Now when we open admin website



There is no Product that we created

So to add it we need to register model in admin.py in shop

from django.contrib import admin  
  
# Register your models here.  
from .models import Product  
  
admin.site.register(Product)



Will create index page for shop app

<https://getbootstrap.com/docs/5.3/components/navbar/>



<!doctype html>  
<html lang="en">  
<head>  
 <meta charset="utf-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1">  
 <title>Bootstrap demo</title>  
 <style>  
 .col-md-3  
 {  
 display:inline-block;  
 margin-left:-4px;  
 }  
  
 .col-md-3 img{  
  
 width:100%;  
 height:auto;  
 }  
  
 carousel-indicators .active{  
 background-color:blue;  
 }  
  
 body .carousel-indicator li{  
 background-color: blue;  
 }  
 body .carousel-indicators{  
 bottom:0;  
 }  
  
 body .carousel-control-prev-icon,  
 body .carousel-control-next-icon{  
 background-color: blue;  
 }  
 body .no-padding{  
 padding-left:0,  
 padding-right:0;  
 }  
  
  
 </style>  
 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet"  
 integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65" crossorigin="anonymous">  
</head>  
<body>  
{% load static %}  
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">  
 <div class="container-fluid">  
 <a class="navbar-brand" href="#">My Awesome Cart</a>  
 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent"  
 aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">  
 <span class="navbar-toggler-icon"></span>  
 </button>  
 <div class="collapse navbar-collapse" id="navbarSupportedContent">  
 <ul class="navbar-nav me-auto mb-2 mb-lg-0">  
 <li class="nav-item">  
 <a class="nav-link active" aria-current="page" href="#">Home</a>  
 </li>  
 <li class="nav-item">  
 <a class="nav-link" href="#">Link</a>  
 </li>  
 <li class="nav-item dropdown">  
 <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown"  
 aria-expanded="false">  
 Dropdown  
 </a>  
 <ul class="dropdown-menu">  
 <li><a class="dropdown-item" href="#">Action</a></li>  
 <li><a class="dropdown-item" href="#">Another action</a></li>  
 <li>  
 <hr class="dropdown-divider">  
 </li>  
 <li><a class="dropdown-item" href="#">Something else here</a></li>  
 </ul>  
 </li>  
 <li class="nav-item">  
 <a class="nav-link disabled" aria-disabled="true">Disabled</a>  
 </li>  
 </ul>  
 <form class="d-flex" role="search">  
 <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">  
 <button class="btn btn-outline-success" type="submit">Search</button>  
 </form>  
 </div>  
 </div>  
</nav>  
  
<div class="container">  
  
 <div id="demo" class="carousel slide my-3" data-ride="carousel">  
 <ul class="carousel-indicators">  
 <li data-bs-target="#demo" data-bs-slide-to="0" class="active"></li>  
 <li data-bs-target="#demo" data-bs-slide-to="1"></li>  
 <li data-bs-target="#demo" data-bs-slide-to="2"></li>  
 </ul>  
  
 <div class="carousel-inner">  
 <div class="carousel-item active">  
 <div class="row">  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">Card title</h5>  
 <p class="card-text">Some quick example text to build on the card title and make up the  
 bulk of the  
 card's content.</p>  
 <a href="#" class="btn btn-primary">Go somewhere</a>  
 </div>  
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 <div class="col-xs-3 col-sm-3 col-md-3">  
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 </div>  
 </div>  
 </div>  
 </div>  
 </div>  
 </div>  
 </div>  
</div>  
<a class="carousel-control-prev " href="#demo" role="button" data-bs-slide="prev">  
 <span class="carousel-control-prev-icon" aria-hidden="true"></span>  
 <span class="sr-only">Previous</span>  
</a>  
<a class="carousel-control-next" href="#demo" role="button" data-bs-slide="next">  
 <span class="carousel-control-next-icon" aria-hidden="true"></span>  
 <span class="sr-only">Next</span>  
</a>  
  
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"  
 integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3"  
 crossorigin="anonymous"></script>  
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.min.js"  
 integrity="sha384-cuYeSxntonz0PPNlHhBs68uyIAVpIIOZZ5JqeqvYYIcEL727kskC66kF92t6Xl2V"  
 crossorigin="anonymous"></script>  
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js"  
 integrity="sha384-kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"  
 crossorigin="anonymous"></script>  
</body>  
</html>



//Adding images and changing models

Models.py in shop

from django.db import models  
  
# Create your models here.  
class Product(models.Model):  
 product\_id = models.AutoField  
 product\_name = models.CharField(max\_length=50)  
 category = models.CharField(max\_length=50, default="")  
 subcategory = models.CharField(max\_length=50, default="")  
 price = models.IntegerField(default=0)  
 desc = models.CharField(max\_length=300)  
 pub\_date = models.DateField()  
 image = models.ImageField(upload\_to = "shop/images", default="")

now make migrations





When we run admin



But we want names so we use

from django.db import models  
  
# Create your models here.  
class Product(models.Model):  
 product\_id = models.AutoField  
 product\_name = models.CharField(max\_length=50)  
 category = models.CharField(max\_length=50, default="")  
 subcategory = models.CharField(max\_length=50, default="")  
 price = models.IntegerField(default=0)  
 desc = models.CharField(max\_length=300)  
 pub\_date = models.DateField()  
 image = models.ImageField(upload\_to = "shop/images", default="")  
  
 def \_\_str\_\_(self):  
 return self.product\_name





**//Adding Media directory in Django**

settings.py in mac (main project)

# Managing Media by Sunny  
MEDIA\_ROOT = os.path.join(BASE\_DIR, 'media')  
MEDIA\_URL = '/media/'

Urls.py in main project\

Add

] + static(settings.MEDIA\_URL, document\_root=settings.MEDIA\_ROOT)

And import line 3 and 4

from django.contrib import admin  
from django.urls import path, include  
from django.conf import settings  
from django.conf.urls.static import static  
  
urlpatterns = [  
 path('admin/', admin.site.urls),  
 path('shop/', include("shop.urls")),  
 path('blog/', include("blog.urls")),  
] + static(settings.MEDIA\_URL, document\_root=settings.MEDIA\_ROOT)

now we can see image in admin panel and also it has created folder media, in base directory to store images,



It created shop/images folder becoz we have added this in models.py of shop app as,

image = models.ImageField(upload\_to = "shop/images", default="")

**/fetching products using python manage.py shell**



>>> from django.utils import timezone

>>> myprod = Product(product\_name = "mouse", category = "computer accessories", subcategory = "Devices", price = 500, desc = "mouse to be used", pub\_date = timezone.now())

>>> myprod.save()

>>> myprod

<Product: mouse>

>>> myprod.product\_id

<class 'django.db.models.fields.AutoField'>

>>> Product.objects.all()

<QuerySet [<Product: watch>, <Product: Ghadi>, <Product: df>, <Product: watch2>, <Product: mouse>]>

>>> Product.objects.get(product\_name="mouse")

<Product: mouse>

>>> a= Product.objects.get(product\_name="mouse")

>>> a.category

'computer accessories'

>>>

**//Template Inheritance**

****

**Basic.html**

<!doctype html>  
<html lang="en">  
<head>  
 <meta charset="utf-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1">  
 <title>{%block title%} {% endblock %}</title>  
 <style>  
 {%block css%} {% endblock %}  
 </style>  
 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet"  
 integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65" crossorigin="anonymous">  
</head>  
<body>  
{% load static %}  
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">  
 <div class="container-fluid">  
 <a class="navbar-brand" href="#">My Awesome Cart</a>  
 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent"  
 aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">  
 <span class="navbar-toggler-icon"></span>  
 </button>  
 <div class="collapse navbar-collapse" id="navbarSupportedContent">  
 <ul class="navbar-nav me-auto mb-2 mb-lg-0">  
 <li class="nav-item">  
 <a class="nav-link active" aria-current="page" href="#">Home</a>  
 </li>  
 <li class="nav-item">  
 <a class="nav-link" href="#">Link</a>  
 </li>  
 <li class="nav-item dropdown">  
 <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown"  
 aria-expanded="false">  
 Dropdown  
 </a>  
 <ul class="dropdown-menu">  
 <li><a class="dropdown-item" href="#">Action</a></li>  
 <li><a class="dropdown-item" href="#">Another action</a></li>  
 <li>  
 <hr class="dropdown-divider">  
 </li>  
 <li><a class="dropdown-item" href="#">Something else here</a></li>  
 </ul>  
 </li>  
 <li class="nav-item">  
 <a class="nav-link disabled" aria-disabled="true">Disabled</a>  
 </li>  
 </ul>  
 <form class="d-flex" role="search">  
 <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">  
 <button class="btn btn-outline-success" type="submit">Search</button>  
 </form>  
 </div>  
 </div>  
</nav>  
  
{%block body%} {% endblock %}  
  
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"  
 integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3"  
 crossorigin="anonymous"></script>  
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.min.js"  
 integrity="sha384-cuYeSxntonz0PPNlHhBs68uyIAVpIIOZZ5JqeqvYYIcEL727kskC66kF92t6Xl2V"  
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<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js"  
 integrity="sha384-kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"  
 crossorigin="anonymous"></script>  
</body>  
</html>

**Index.html of shop app**

{% extends 'shop/basic.html' %}  
{%block css%} .col-md-3  
{  
display:inline-block;  
margin-left:-4px;  
}  
  
.col-md-3 img{  
  
width:100%;  
height:auto;  
}  
  
carousel-indicators .active{  
background-color:blue;  
}  
  
body .carousel-indicator li{  
background-color: blue;  
}  
body .carousel-indicators{  
bottom:0;  
}  
  
body .carousel-control-prev-icon,  
body .carousel-control-next-icon{  
background-color: blue;  
}  
body .no-padding{  
padding-left:0,  
padding-right:0;  
}  
  
{% endblock %}  
  
  
{%block body%}  
{% load static %}  
<div class="container">  
  
 <div id="demo" class="carousel slide my-3" data-ride="carousel">  
 <ul class="carousel-indicators">  
 <li data-bs-target="#demo" data-bs-slide-to="0" class="active"></li>  
 <li data-bs-target="#demo" data-bs-slide-to="1"></li>  
 <li data-bs-target="#demo" data-bs-slide-to="2"></li>  
 </ul>  
  
 <div class="carousel-inner">  
 <div class="carousel-item active">  
 <div class="row">  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">Card title</h5>  
 <p class="card-text">Some quick example text to build on the card title and make up the  
 bulk of the  
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 <a href="#" class="btn btn-primary">Go somewhere</a>  
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 <p class="card-text">Some quick example text to build on the card title and make up the  
 bulk of the  
 card's content.</p>  
 <a href="#" class="btn btn-primary">Go somewhere</a>  
 </div>  
 </div>  
 </div>  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">Card title</h5>  
 <p class="card-text">Some quick example text to build on the card title and make up the  
 bulk of the  
 card's content.</p>  
 <a href="#" class="btn btn-primary">Go somewhere</a>  
 </div>  
 </div>  
 </div>  
 </div>  
 </div>  
 </div>  
 </div>  
</div>  
<a class="carousel-control-prev " href="#demo" role="button" data-bs-slide="prev">  
 <span class="carousel-control-prev-icon" aria-hidden="true"></span>  
 <span class="sr-only">Previous</span>  
</a>  
<a class="carousel-control-next" href="#demo" role="button" data-bs-slide="next">  
 <span class="carousel-control-next-icon" aria-hidden="true"></span>  
 <span class="sr-only">Next</span>  
</a>  
  
  
{% endblock %}  
  
  
<!--<!doctype html>-->  
<!--<html lang="en">-->  
<!--<head>-->  
<!-- <meta charset="utf-8">-->  
<!-- <meta name="viewport" content="width=device-width, initial-scale=1">-->  
<!-- <title>Bootstrap demo</title>-->  
<!-- <style>-->  
<!-- .col-md-3-->  
<!-- {-->  
<!-- display:inline-block;-->  
<!-- margin-left:-4px;-->  
<!-- }-->  
  
<!-- .col-md-3 img{-->  
  
<!-- width:100%;-->  
<!-- height:auto;-->  
<!-- }-->  
  
<!-- carousel-indicators .active{-->  
<!-- background-color:blue;-->  
<!-- }-->  
  
<!-- body .carousel-indicator li{-->  
<!-- background-color: blue;-->  
<!-- }-->  
<!-- body .carousel-indicators{-->  
<!-- bottom:0;-->  
<!-- }-->  
  
<!-- body .carousel-control-prev-icon,-->  
<!-- body .carousel-control-next-icon{-->  
<!-- background-color: blue;-->  
<!-- }-->  
<!-- body .no-padding{-->  
<!-- padding-left:0,-->  
<!-- padding-right:0;-->  
<!-- }-->  
  
  
<!-- </style>-->  
<!-- <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet"-->  
<!-- integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65" crossorigin="anonymous">-->  
<!--</head>-->  
<!--<body>-->  
<!--{% load static %}-->  
<!--<nav class="navbar navbar-expand-lg navbar-dark bg-dark">-->  
<!-- <div class="container-fluid">-->  
<!-- <a class="navbar-brand" href="#">My Awesome Cart</a>-->  
<!-- <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent"-->  
<!-- aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">-->  
<!-- <span class="navbar-toggler-icon"></span>-->  
<!-- </button>-->  
<!-- <div class="collapse navbar-collapse" id="navbarSupportedContent">-->  
<!-- <ul class="navbar-nav me-auto mb-2 mb-lg-0">-->  
<!-- <li class="nav-item">-->  
<!-- <a class="nav-link active" aria-current="page" href="#">Home</a>-->  
<!-- </li>-->  
<!-- <li class="nav-item">-->  
<!-- <a class="nav-link" href="#">Link</a>-->  
<!-- </li>-->  
<!-- <li class="nav-item dropdown">-->  
<!-- <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown"-->  
<!-- aria-expanded="false">-->  
<!-- Dropdown-->  
<!-- </a>-->  
<!-- <ul class="dropdown-menu">-->  
<!-- <li><a class="dropdown-item" href="#">Action</a></li>-->  
<!-- <li><a class="dropdown-item" href="#">Another action</a></li>-->  
<!-- <li>-->  
<!-- <hr class="dropdown-divider">-->  
<!-- </li>-->  
<!-- <li><a class="dropdown-item" href="#">Something else here</a></li>-->  
<!-- </ul>-->  
<!-- </li>-->  
<!-- <li class="nav-item">-->  
<!-- <a class="nav-link disabled" aria-disabled="true">Disabled</a>-->  
<!-- </li>-->  
<!-- </ul>-->  
<!-- <form class="d-flex" role="search">-->  
<!-- <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">-->  
<!-- <button class="btn btn-outline-success" type="submit">Search</button>-->  
<!-- </form>-->  
<!-- </div>-->  
<!-- </div>-->  
<!--</nav>-->  
  
<!--<div class="container">-->  
  
<!-- <div id="demo" class="carousel slide my-3" data-ride="carousel">-->  
<!-- <ul class="carousel-indicators">-->  
<!-- <li data-bs-target="#demo" data-bs-slide-to="0" class="active"></li>-->  
<!-- <li data-bs-target="#demo" data-bs-slide-to="1"></li>-->  
<!-- <li data-bs-target="#demo" data-bs-slide-to="2"></li>-->  
<!-- </ul>-->  
  
<!-- <div class="carousel-inner">-->  
<!-- <div class="carousel-item active">-->  
<!-- <div class="row">-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
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<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
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<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
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<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
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<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
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<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
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<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
  
  
<!-- <div class="carousel-item">-->  
<!-- <div class="row">-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
  
  
<!-- <div class="carousel-item">-->  
  
<!-- <div class="row">-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
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<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- <div class="col-xs-3 col-sm-3 col-md-3">-->  
<!-- <div class="card" style="width: 18rem;">-->  
<!-- <img src="{%static 'shop/test.jpg' %}" class="card-img-top" alt="...">-->  
<!-- <div class="card-body">-->  
<!-- <h5 class="card-title">Card title</h5>-->  
<!-- <p class="card-text">Some quick example text to build on the card title and make up the-->  
<!-- bulk of the-->  
<!-- card's content.</p>-->  
<!-- <a href="#" class="btn btn-primary">Go somewhere</a>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!-- </div>-->  
<!--</div>-->  
<!--<a class="carousel-control-prev " href="#demo" role="button" data-bs-slide="prev">-->  
<!-- <span class="carousel-control-prev-icon" aria-hidden="true"></span>-->  
<!-- <span class="sr-only">Previous</span>-->  
<!--</a>-->  
<!--<a class="carousel-control-next" href="#demo" role="button" data-bs-slide="next">-->  
<!-- <span class="carousel-control-next-icon" aria-hidden="true"></span>-->  
<!-- <span class="sr-only">Next</span>-->  
<!--</a>-->  
  
<!--<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"-->  
<!-- integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3"-->  
<!-- crossorigin="anonymous"></script>-->  
<!--<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.min.js"-->  
<!-- integrity="sha384-cuYeSxntonz0PPNlHhBs68uyIAVpIIOZZ5JqeqvYYIcEL727kskC66kF92t6Xl2V"-->  
<!-- crossorigin="anonymous"></script>-->  
<!--<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js"-->  
<!-- integrity="sha384-kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"-->  
<!-- crossorigin="anonymous"></script>-->  
<!--</body>-->  
<!--</html>-->

**About.html**

{% extends 'shop/basic.html' %}  
  
{%block title%} Title of About Page {% endblock %}  
  
{%block body%} Body bhai{% endblock %}

**//Logic for showing Products on HomePage**

****

****

**//Showing product on home page**

****

**Now we want to fetch images from database into home page**

**In Views.py in Shop app**

from .models import Product  
from math import ceil  
  
# Create your views here.  
def index(request):  
 # fetches products from database  
 products = Product.objects.all()  
 print(products)  
 n=len(products)  
 nSlides = n//4 + ceil((n/4) - (n//4))  
 params = {'product' : products, 'no\_of\_slides':nSlides, 'range' : range(1, nSlides)}  
 return render(request, "shop/index.html", params)

**//Now we want all variables from params to be included in index.html of shop app**

**Shop.index.html**

{% extends 'shop/basic.html' %}  
  
{% block css %}  
.col-md-3 {  
display: inline-block;  
margin-left: -4px;  
}  
  
.col-md-3 img {  
width: 255px;  
height: 255px;  
}  
  
.carousel-indicators .active {  
background-color: blue;  
}  
  
body .carousel-indicator li {  
background-color: blue;  
}  
  
body .carousel-indicators {  
bottom: 0;  
}  
  
body .carousel-control-prev-icon,  
body .carousel-control-next-icon {  
background-color: blue;  
}  
  
body .no-padding {  
padding-left: 0;  
padding-right: 0;  
}  
{% endblock %}  
  
{% block body %}  
{% load static %}  
<div class="container">  
 <h1>Mens Fashion</h1>  
 <div id="demo" class="carousel slide my-3" data-ride="carousel">  
 <ul class="carousel-indicators">  
 <li data-bs-target="#demo" data-bs-slide-to="0" class="active"></li>  
  
 {% for i in range %}  
 <li data-bs-target="#demo" data-bs-slide-to="{{ i }}"></li>  
 {% endfor %}  
 </ul>  
  
 <div class="carousel-inner">  
 <div class="carousel-item active">  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="/media/{{product.0.image}}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">{{product.0.product\_name}}</h5>  
 <p class="card-text">{{product.0.desc}}</p>  
 <a href="#" class="btn btn-primary">Add to Cart</a>  
 </div>  
 </div>  
 </div>  
  
 {% for product\_item in product|slice:"1:"%}  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="/media/{{product\_item.image}}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">{{product\_item.product\_name}}</h5>  
 <p class="card-text">{{product\_item.desc}}</p>  
 <a href="#" class="btn btn-primary">Add to Cart</a>  
 </div>  
 </div>  
 </div>  
 {% if forloop.counter|add:1|divisibleby:4 and forloop.counter > 0 and not forloop.last %}  
 </div>  
 <div class="carousel-item">  
 {% endif %}  
  
 {% endfor %}  
 </div>  
 </div>  
 </div>  
 <a class="carousel-control-prev" href="#demo" role="button" data-bs-slide="prev">  
 <span class="carousel-control-prev-icon" aria-hidden="true"></span>  
 <span class="sr-only">Previous</span>  
 </a>  
 <a class="carousel-control-next" href="#demo" role="button" data-bs-slide="next">  
 <span class="carousel-control-next-icon" aria-hidden="true"></span>  
 <span class="sr-only">Next</span>  
 </a>  
  
</div>  
{% endblock %}

**Views.py**

from .models import Product  
from math import ceil  
  
# Create your views here.  
def index(request):  
 # fetches products from database  
 products = Product.objects.all()  
 print(products)  
 n=len(products)  
 nSlides = n//4 + ceil((n/4) - (n//4))  
 params = {'product' : products, 'no\_of\_slides':nSlides, 'range' : range(1, nSlides)}  
 return render(request, "shop/index.html", params)

****

**//Showing multiple product slide on home page**

**Index.html**

def index(request):  
 # fetches products from database  
 products = Product.objects.all()  
 print(products)  
 n=len(products)  
 nSlides = n//4 + ceil((n/4) - (n//4))  
 # params = {'product' : products, 'no\_of\_slides':nSlides, 'range' : range(1, nSlides)}  
  
 allProds = [[products, range(1, nSlides), nSlides],  
 [products, range(1, nSlides), nSlides]]  
 params = {'allProds' : allProds}  
 return render(request, "shop/index.html", params)

**shop/index.html**

{% extends 'shop/basic.html' %}  
  
{% block css %}  
.col-md-3 {  
display: inline-block;  
margin-left: -4px;  
}  
  
.col-md-3 img {  
width: 255px;  
height: 255px;  
}  
  
.carousel-indicators .active {  
background-color: blue;  
}  
  
body .carousel-indicator li {  
background-color: blue;  
}  
  
body .carousel-indicators {  
bottom: 0;  
}  
  
body .carousel-control-prev-icon,  
body .carousel-control-next-icon {  
background-color: blue;  
}  
  
body .carousel-control-prev,  
body .carousel-control-next {  
top: auto;  
bottom: auto;  
}  
  
body .no-padding {  
padding-left: 0;  
padding-right: 0;  
}  
{% endblock %}  
  
{% block body %}  
{% load static %}  
<div class="container">  
  
<!-- Slide Show starts here-->  
 {% for product, range, nSlides in allProds %}  
 <h1>{{product.0.category}}</h1>  
 <div id="demo{{forloop.counter}}" class="carousel slide my-3" data-ride="carousel">  
 <ul class="carousel-indicators">  
 <li data-bs-target="#demo{{forloop.counter}}" data-bs-slide-to="0" class="active"></li>  
  
 {% for i in range %}  
 <li data-bs-target="#demo{{forloop.parentloop.counter}}" data-bs-slide-to="{{i}}"></li>  
 {% endfor %}  
 </ul>  
  
 <div class="container carousel-inner no-padding">  
 <div class="carousel-item active">  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="/media/{{product.0.image}}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">{{product.0.product\_name}}</h5>  
 <p class="card-text">{{product.0.desc}}</p>  
 <a href="#" class="btn btn-primary">Add to Cart</a>  
 </div>  
 </div>  
 </div>  
  
 {% for i in product|slice:"1:"%}  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="/media/{{i.image}}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">{{i.product\_name}}</h5>  
 <p class="card-text">{{i.desc}}</p>  
 <a href="#" class="btn btn-primary">Add to Cart</a>  
 </div>  
 </div>  
 </div>  
 {% if forloop.counter|add:1|divisibleby:4 and forloop.counter > 0 and not forloop.last %}  
 </div>  
 <div class="carousel-item">  
 {% endif %}  
  
 {% endfor %}  
 </div>  
 </div>  
 </div>  
 <a class="carousel-control-prev" href="#demo{{forloop.counter}}" role="button" data-bs-slide="prev">  
 <span class="carousel-control-prev-icon" aria-hidden="true"></span>  
 <span class="sr-only">Previous</span>  
 </a>  
 <a class="carousel-control-next" href="#demo{{forloop.counter}}" role="button" data-bs-slide="next">  
 <span class="carousel-control-next-icon" aria-hidden="true"></span>  
 <span class="sr-only">Next</span>  
 </a>  
 {% endfor %}  
</div>  
{% endblock %}

****

**Category wise product display(as we see shoes two times, so it must be separated by category)**

def index(request):  
 # fetches products from database  
 products = Product.objects.all()  
 print(products)  
 n=len(products)  
 nSlides = n//4 + ceil((n/4) - (n//4))  
 # params = {'product' : products, 'no\_of\_slides':nSlides, 'range' : range(1, nSlides)}  
 #  
 # allProds = [[products, range(1, nSlides), nSlides],  
 # [products, range(1, nSlides), nSlides]]  
  
 allProds = []  
 catprods = Product.objects.values('category','id')  
 cats = {item['category'] for item in catprods}  
 for cat in cats:  
 prod = Product.objects.filter(category = cat)  
 n = len(prod)  
 nSlides = n//4 + ceil((n/4) - (n//4))  
 allProds.append([prod, range(1, nSlides), nSlides])  
  
 params = {'allProds' : allProds}  
 return render(request, "shop/index.html", params)

**Index.html change**

.col-md-3 img {  
width: 227px;  
max-height: 242px;  
}

<h4 class="my-4">{{product.0.category}} - Recommended Items For You</h4>

**now we cn see categories displayed correctly**

**Creating Online Shopping Cart Using Javascript**

****

****

**We create local storage for website. And session storage works until website session ens**

**In basic.html**

****

**Index.html**

{%block js%}  
<script>  
 console.log("working");  
</script>  
{% endblock %}

****

**Index.html**

{%block js%}  
<script>  
 console.log("working");  
 if(localStorage.getItem('cart') == null){  
 var cart = {};  
 }  
  
 else  
 {  
 cart = JSON.parse(localStorage.getItem('cart'));  
 }  
<!--wherever class is .cart call this function-->  
 $('.cart').click(function(){  
 console.log('clicked”);  
 });  
</script>  
{% endblock %}

{%block js%}  
<script>  
 console.log("working");  
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 $('.cart').click(function(){  
  
 console.log('clicked');  
 var idstr = this.id.toString();  
 console.log(idstr);  
  
 if(cart[idstr] != undefined){  
 cart[idstr] = cart[idstr] + 1;  
 }  
 else  
 {  
 cart[idstr]=1;  
 }  
 console.log(cart);  
 localStorage.setItem('cart',JSON.stringify(cart));  
 });  
</script>  
{% endblock %}

**Also change anchor tag to button and add class and id as ,**

<div class="container carousel-inner no-padding">  
 <div class="carousel-item active">  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="/media/{{product.0.image}}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">{{product.0.product\_name}}</h5>  
 <p class="card-text">{{product.0.desc}}</p>  
 <button id ="pr{{product.0.id}}" class="btn btn-primary cart">Add to Cart</button>  
 </div>  
 </div>  
 </div>  
  
 {% for i in product|slice:"1:"%}  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="/media/{{i.image}}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">{{i.product\_name}}</h5>  
 <p class="card-text">{{i.desc}}</p>  
 <button id ="pr{{i.id}}" class="btn btn-primary cart">Add to Cart</button>  
 </div>  
 </div>  
 </div>  
 {% if forloop.counter|add:1|divisibleby:4 and forloop.counter > 0 and not forloop.last %}  
 </div>

**Now in inspect even when we refresh we can see cart items added**

****

****

**Imporving Slider Logic & Adding Cart Items Count**

**Basic.html**

**Adding cart button**

<li class="nav-item">  
 <a class="nav-link" href="#">Cart(<span id="cart">0</span>)</a>  
</li>

**Index.html add**

document.getElementById('cart').innerHTML = Object.keys(cart).length;

**in else and at last**

{%block js%}  
<script>  
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 if(localStorage.getItem('cart') == null){  
 var cart = {};  
 }  
  
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 cart = JSON.parse(localStorage.getItem('cart'));  
 document.getElementById('cart').innerHTML = Object.keys(cart).length;  
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 }  
 else  
 {  
 cart[idstr]=1;  
 }  
 console.log(cart);  
 localStorage.setItem('cart',JSON.stringify(cart));  
 document.getElementById('cart').innerHTML = Object.keys(cart).length;  
 });  
</script>  
{% endblock %}

**Also, Adding Bootstrap Row and Some CSS**

**Index.html**

{% extends 'shop/basic.html' %}  
  
{% block css %}  
.col-md-3 {  
display: inline-block;  
margin-left: -4px;  
}  
  
.col-md-3 img {  
width: 170px;  
height: 200px;  
}  
  
.carousel-indicators .active {  
background-color: blue;  
}  
  
body .carousel-indicator li {  
background-color: blue;  
}  
  
body .carousel-indicators {  
bottom: 0;  
}  
  
body .carousel-control-prev-icon,  
body .carousel-control-next-icon {  
background-color: blue;  
}  
  
body .carousel-control-prev,  
body .carousel-control-next {  
top: auto;  
bottom: auto;  
padding-top:222px;  
}  
  
body .no-padding {  
padding-left: 0;  
padding-right: 0;  
}  
{% endblock %}  
  
{% block body %}  
{% load static %}  
<div class="container">  
  
<!-- Slide Show starts here-->  
 {% for product, range, nSlides in allProds %}  
 <h4 class="my-4">{{product.0.category}} - Recommended Items For You</h4>  
 <div class="row">  
 <div id="demo{{forloop.counter}}" class="col carousel slide my-3" data-ride="carousel">  
 <ul class="carousel-indicators">  
 <li data-bs-target="#demo{{forloop.counter}}" data-bs-slide-to="0" class="active"></li>  
  
 {% for i in range %}  
 <li data-bs-target="#demo{{forloop.parentloop.counter}}" data-bs-slide-to="{{i}}"></li>  
 {% endfor %}  
 </ul>  
  
 <div class="container carousel-inner no-padding">  
 <div class="carousel-item active">  
  
 {% for i in product %}  
 <div class="col-xs-3 col-sm-3 col-md-3">  
 <div class="card" style="width: 18rem;">  
 <img src="/media/{{i.image}}" class="card-img-top" alt="...">  
 <div class="card-body">  
 <h5 class="card-title">{{i.product\_name}}</h5>  
 <p class="card-text">{{i.desc}}</p>  
 <button id ="pr{{i.id}}" class="btn btn-primary cart">Add to Cart</button>  
 </div>  
 </div>  
 </div>  
 {% if forloop.counter|divisibleby:4 and forloop.counter > 0 and not forloop.last %}  
 </div>  
 <div class="carousel-item">  
 {% endif %}  
  
 {% endfor %}  
 </div>  
 </div>  
 </div>  
 <a class="carousel-control-prev" href="#demo{{forloop.counter}}" role="button" data-bs-slide="prev">  
 <span class="carousel-control-prev-icon" aria-hidden="true"></span>  
 <span class="sr-only">Previous</span>  
 </a>  
 <a class="carousel-control-next" href="#demo{{forloop.counter}}" role="button" data-bs-slide="next">  
 <span class="carousel-control-next-icon" aria-hidden="true"></span>  
 <span class="sr-only">Next</span>  
 </a>  
 </div>  
 {% endfor %}  
</div>  
{% endblock %}  
  
  
{%block js%}  
<script>  
 console.log("working");  
  
 if(localStorage.getItem('cart') == null){  
 var cart = {};  
 }  
  
 else  
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 else  
 {  
 cart[idstr]=1;  
 }  
 console.log(cart);  
 localStorage.setItem('cart',JSON.stringify(cart));  
 document.getElementById('cart').innerHTML = Object.keys(cart).length;  
 });  
</script>  
{% endblock %}

**Adding Cart PopOver & other pages using bootstrap**

**Index.html**

</script>  
<script type="text/javascript">  
 var popoverTriggerList = [].slice.call(document.querySelectorAll('[data-bs-toggle="popover"]'));  
 var popoverList = popoverTriggerList.map(function (popoverTriggerEl) {  
 return new bootstrap.Popover(popoverTriggerEl);  
 });  
</script>  
{% endblock %}

**Basic.html**

<button type="button" class="btn btn-secondary mx-2" data-bs-toggle="popover" title="Popover title"  
 data-html='true' data-bs-content="Cart for your items in shopping cart">Cart(<span  
 id="cart">0</span>)  
 </button>  
</div>

****

Creating Product Page

Urls.py

urlpatterns = [  
 path('', views.index, name="ShopHome"),  
 path('about/', views.about, name="AboutUs"),  
 path('contact/', views.contact, name="ContactUs"),  
 path('tracker/', views.tracker, name="TrackingStatus"),  
 path('search/', views.search, name="Search"),  
 path('products/<int:myid>', views.prodView, name="ProductView"),  
 path('checkout/', views.checkout, name="Checkout"),  
]

Views.py

def prodView(request, myid):  
 # fetch the product using id  
 product = Product.objects.filter(id=myid)  
 print(product)  
  
 return render(request, "shop/prodView.html", {'product': product[0]})

prodView.html

{% extends 'shop/basic.html' %}  
  
{%block title%} {{product.product\_name}} - My Awesome Cart {% endblock %}  
  
{%block body%}  
  
<div class="container">  
 <div class="row">  
 <div class="col-md-4">  
 <div class="row">  
 <img src="/media/{{product.image}}" width="233px" height="385px">  
 </div>  
 <div class="row">  
 <button class="btn btn-primary my-3">Buy Now</button>  
 <button class="btn btn-primary my-3">Add to Cart</button>  
 </div>  
 </div>  
 <div class="col-md-8">  
 <h5>{{product.product\_name}}</h5>  
 <p><b>Rs. {{product.price}}</b></p>  
 <p>{{product.desc}}</p>  
 </div>  
 </div>  
</div>  
  
  
{% endblock %}  
{%block js%}  
<script>  
 console.log("working");  
  
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 cart[idstr] = cart[idstr] + 1;  
 }  
 else  
 {  
 cart[idstr]=1;  
 }  
 console.log(cart);  
 localStorage.setItem('cart',JSON.stringify(cart));  
 document.getElementById('cart').innerHTML = Object.keys(cart).length;  
 });  
 $('#popcart').popover('show')  
</script>  
<script type="text/javascript">  
 var popoverTriggerList = [].slice.call(document.querySelectorAll('[data-bs-toggle="popover"]'));  
 var popoverList = popoverTriggerList.map(function (popoverTriggerEl) {  
 return new bootstrap.Popover(popoverTriggerEl);  
 });  
</script>  
{% endblock %}

Index.html added slicer to show description of limited characters on index page

<p class="card-text">{{i.desc|slice:"0:23"}}...</p>