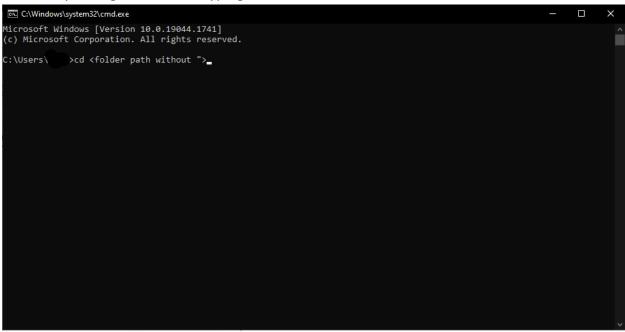
Django E-Commerce Website Project

Procedural Instructions (GitHub Reference at the last of the document)

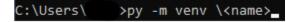
Step 1 | Installation

Creating a virtual environment

Creating a virtual environment is recommended as it makes it easy to install multiple python plugins, if necessary, without changing the global settings. In short, it makes a virtual environment for all your needs. First, create a new folder for your project. In this case I'll create a folder named **shop**. Then open a new cmd window inside the new folder you've created by hitting **Win + R** and typing **cmd** and hit **Ok**.



Then type the command above and replacing **<folder path without** "> with your folder path. Then typing the following command and replacing **<name>** with your project name.



This will create a folder named **venv** in your project folder.

As of updated python versions, there's no need to activate the virtual environment but still we can activate it by running the **activate.bat** script inside the venv folder.

Now you've sucessfully activated the virtual environment and your cmd should have **(venv) < project** path> as its first line.

Installing Django

Type **py -m pip install Django** inside the cmd window. This will install <u>Django</u> inside your virtual environment (*if you have one*). Now run **django-admin startproject <project name>**. This will create a project folder named with your project name (*here its shop*). Now your directory should look something like this. "." Is root directory.

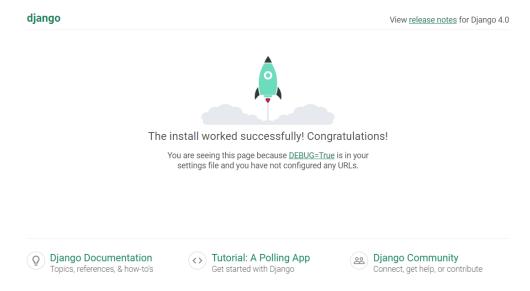
Now you've setup all the files needed to make this project a successful one! Let's go!

Adding the app app

Now open a cmd window in roject_name folder and type py manage.py startapp
app. This will create a new folder and your directory should look something like this.

Adding remaining assets and assets folder

Before we move any further, I would like you to test your project by opening a cmd at the location where **manage.py** is located and open a cmd window here (PowerShell will work as well) and type in **py manage.py runserver**. This will start a development server at your local machine and will be hosted at localhost:8000. It should display something like this.



Now that you've created everything to basically run the project, its now time to add the assets to your project. You can get the files I've used at my <u>GitHub</u> page or add your own files. Copy the directory structure given below.

```
oject name>
    app
        migrations
          init .py
        admin.py
        apps.py
        models.py
        tests.py
        views.py
    media
        productimg
            <your image files> <- This isn't a folder or a file</pre>
    <project>
         init__.py
        asgi.py
        settings.py
        urls.py
```

```
|                     wsgi.py
└── manage.py
```

Step 2 | Coding

Editing settings.py

Now that you've setup the stuff, its time to edit the **settings.py** file. Refer my <u>GitHub</u> for more details on it.

Add this (40) line to INSTALLED_APPS block

```
INSTALLED APPS = [
33
34
          'django.contrib.admin',
35
          'django.contrib.auth',
36
          'django.contrib.contenttypes',
37
          'django.contrib.sessions',
38
          'django.contrib.messages',
39
          'django.contrib.staticfiles',
40
          'app',
41
```

Add this (58) line to **TEMPLATES** block

```
55
     TEMPLATES = [
56
         {
              'BACKEND': 'django.template.backends.django.DjangoTemplates',
57
              'DIRS': [BASE_DIR / 'templates'],
58
59
              'APP DIRS': True,
              'OPTIONS': {
60
61
                  'context_processors': [
                      'django.template.context_processors.debug',
62
                      'django.template.context_processors.request',
63
64
                      'django.contrib.auth.context_processors.auth',
65
                      'django.contrib.messages.context_processors.messages',
66
                 ],
67
             },
68
         },
69
```

Add this (113) line to last bit of code

```
107    LANGUAGE_CODE = 'en-us'
108
109    TIME_ZONE = 'UTC'
110
111    USE_I18N = True
112
113    USE_L10N = True
114
115    USE_TZ = True
```

Add this before **DEFAULT_AUTO_FIELD**

```
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/4.0/howto/static-files/

STATIC_URL = 'static/'

MEDIA_URL = '/media/'

MEDIA_ROOT = BASE_DIR / 'media'

LOGIN_REDIRECT_URL = '/profile/'

EMAIL_BACKEND = 'django.core.mail.backends.console.EmailBackend'
SESSION_ENGINE = "django.contrib.sessions.backends.db"
```

Now you've completely edited the **settings.py** file to your needs

Editing urls.py

Now we will edit urls.py file

Edit the file to resemble this

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
path('admin/', admin.site.urls),
path('', include('app.urls')),

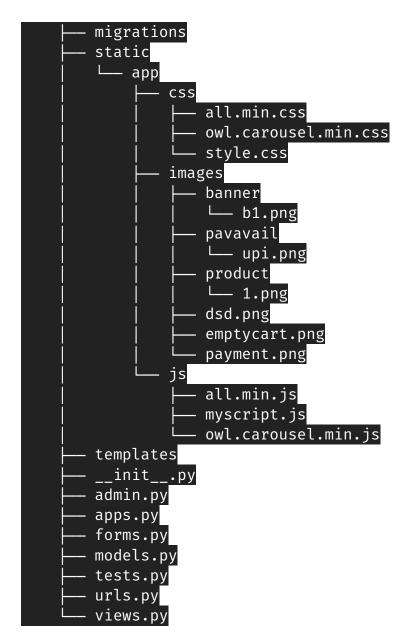
handler404 = "shopx.views.page_not_found_view"
```

Step 3 | Working with apps folder

Creating files needed

Copy the directory provided below to add the files needed. You could copy the files off my GitHub.





Editing admin.py

Add these lines to your admin.py file

```
django.contrib import admin
                                            ort format_html
            m django.urls import reverse
m .models import (
3
4
5
6
7
8
9
10
             Customer,
             Product.
             Cart,
             OrderPlaced
       @admin.register(Customer)
12
13
         list_display = ['id', 'user', 'name', 'locality', 'city', 'zipcode', 'state']
14
15
       @admin.register(Product)
16
17
18
19
        class ProductModelAdmin(admin.ModelAdmin):
    list_display = ['id', 'title', 'selling_price', 'discounted_price', 'description', 'brand', 'category', 'product_image']
       @admin.register(Cart)
20
21
22
23
24
25
26
27
28
29
30
        list_display = ['id', 'user', 'product', 'quantity']
       @admin.register(OrderPlaced)
class OrderPlacedModelAdmin(admin.ModelAdmin):
         list_display = ['id', 'user', 'customer', 'customer_info', 'product', 'product_info', 'quantity', 'ordered_date', 'status']
         def product_info(self, obj):
  link = reverse("admin:app_product_change", args=[obj.product.pk])
  return format_html('<a href="{}">{}</a>', link, obj.product.title)
             f customer_info(self, obj):
          link = reverse("admin:app_customer_change", args=[obj.customer.pk])
return format_html('<a href="{}">{}</a>', link, obj.customer.name)
```

Editing forms.py

Now we will add forms to our project. We will start by importing all the necessary modules. Add these lines at the start of the document and *replacing any existing ones (optional)*

```
from django import forms

Trom django.contrib.auth.forms import UserCreationForm, AuthenticationForm, PasswordChangeForm, UsernameField, PasswordResetForm, SetPasswordForm from django.contrib.auth.models import User

from django.utils.translation import gettext, gettext_lazy as _

from .models import Customer

from django.contrib.auth import password_validation
```

Now we will start adding our classes. First off let's add **CustomerRegistrationForm.** This will be used in customer's registration process.

```
class CustomerRegistrationForm(UserCreationForm):
password1 = forms.CharField(label='Password', widget=forms.PasswordInput(attrs={'class':'form-control'}))
password2 = forms.CharField(label='Confirm Password (again)', widget=forms.PasswordInput(attrs={'class':'form-control'}))
email = forms.CharField(required=True, widget=forms.EmailInput(attrs={'class':'form-control'}))
class Meta:
model = User
fields = ['username', 'email', 'password1', 'password2']
labels = {'email': 'Email'}
widgets = {'username':forms.TextInput(attrs={'class':'form-control'})}
```

Second, we will add **LoginForm**. As the name suggests, this will be used in login process.

Now we will add classes to manage passwords, such as **changing**, **resetting and setting a new password**. Add these lines

```
class MyPasswordChangeForm(PasswordChangeForm):
    old_password = forms.CharField(label=_("Old Password"), strip=False, widget=forms.PasswordInput(attrs={'autocomplete': 'current-password', 'autofocus ':True, 'class':'form-control'}))
    new_password = forms.CharField(label=_("New Password"), strip=False, widget=forms.PasswordInput(attrs={'autocomplete': 'new-password', 'class':' form-control'}), help_text=password_validation.password_validators_help_text_html())
    new_password2 = forms.CharField(label=_("Confirm New Password"), strip=False, widget=forms.PasswordInput(attrs={'autocomplete': 'new-password', 'class ':'form-control'}))

class MyPasswordResetForm(PasswordResetForm):
    email = forms.EmailField(label=_("Email"), max_length=254, widget=forms.EmailInput(attrs={'autocomplete': 'email', 'class':'form-control'}))

class MySetPasswordForm(SetPasswordForm):
    new_password1 = forms.CharField(label=_("New Password"), strip=False, widget=forms.PasswordInput(attrs={'autocomplete': 'new-password', 'class':' form-control'}), help_text=password_validation.password_validators_help_text_html())
    new_password2 = forms.CharField(label=_("Confirm New Password"), strip=False, widget=forms.PasswordInput(attrs={'autocomplete': 'new-password', 'class':' form-control'}))
```

Now we will add CustomerProfileForm

Editing models.py

Now we will start editing **models.py** file. Start with importing necessary modules. Add these lines to the start of the file.

```
1 from django.db import models
2 from django.contrib.auth.models import User
3 from django.core.validators import MaxValueValidator, MinValueValidator
```

Now we will add a tuple with all states from India.

```
STATE_CHOICES = (
 5
           'Andaman & Nicobar Islands','Andaman & Nicobar Islands'),
 6
           'Andhra Pradesh','Andhra Pradesh'),
 7
           'Arunachal Pradesh','Arunachal Pradesh'),
 8
           'Assam','Assam'),
           'Bihar','Bihar'),
'Chandigarh','Chandigarh'),
 9
10
           Chhattisgarh', 'Chhattisgarh'),
11
           'Dadra & Nagar Haveli','Dadra & Nagar Haveli'),
12
13
           'Daman and Diu','Daman and Diu'),
14
           'Delhi','Delhi'),
15
           'Goa','Goa'),
           'Gujarat','Gujarat'),
16
           'Haryana', 'Haryana'),
'Himachal Pradesh'),
'Jammu & Kashmir', 'Jammu & Kashmir'),
17
18
19
20
           'Jharkhand','Jharkhand'),
           'Karnataka','Karnataka'),
21
22
           'Kerala','Kerala'),
           'Lakshadweep','Lakshadweep'),
23
           'Madhya Pradesh','Madhya Pradesh'),
24
           'Maharashtra','Maharashtra'),
25
           'Manipur','Manipur'),
26
           'Meghalaya','Meghalaya'),
27
          'Mizoram','Mizoram'),
28
29
           'Nagaland','Nagaland'),
           'Odisha','Odisha'),
30
           'Puducherry','Puducherry'),
'Punjab','Punjab'),
31
32
           'Rajasthan','Rajasthan'),
'Sikkim','Sikkim'),
33
34
           'Tamil Nadu','Tamil Nadu'),
'Telangana','Telangana'),
35
36
          'Tripura','Tripura'),
37
           'Uttarakhand','Uttarakhand'),
38
           'Uttar Pradesh','Uttar Pradesh'),
39
           'West Bengal', 'West Bengal'),
40
```

Now we will add **Customer** class. This will be used to define the database entries.

```
42 class Customer(models.Model):
43
    user = models.ForeignKey(User, on_delete=models.CASCADE)
    name = models.CharField(max_length=200)
44
    locality = models.CharField(max_length=200)
45
46
    city = models.CharField(max length=50)
47
    zipcode = models.IntegerField()
48
    state = models.CharField(choices=STATE CHOICES, max length=50)
49
50
    def __str__(self):
51
     return str(self.id)
```

Now we will add **CATEGORY_CHOICES** tuple and **Product** class.

```
CATEGORY_CHOICES = (
     ('M', 'Mobile'),
56
57
     ('L', 'Laptop'),
     ('TW', 'Top Wear'),
58
     ('BW', 'Bottom Wear'),
59
60
61
   class Product(models.Model):
    title = models.CharField(max_length=100)
62
    selling price = models.FloatField()
63
64
    discounted price = models.FloatField()
    description = models.TextField()
65
    brand = models.CharField(max_length=100)
66
67
    category = models.CharField( choices=CATEGORY_CHOICES, max_length=2)
    product image = models.ImageField(upload to='productimg')
68
69
    def __str__(self):
70
71
    return str(self.id)
```

Now we will add **OrderPlaced** class and the **property**. Note that the image shows a comment stating use of **orders.html**. We will create that file later.

```
class OrderPlaced(models.Model):
      user = models.ForeignKey(User, on_delete=models.CASCADE)
 96
      customer = models.ForeignKey(Customer, on_delete=models.CASCADE)
 98
      product = models.ForeignKey(Product, on_delete=models.CASCADE)
 99
      quantity = models.PositiveIntegerField(default=1)
      ordered_date = models.DateTimeField(auto_now_add=True)
100
      status = models.CharField(max_length=50,choices=STATUS_CHOICES,default='Pending')
101
102
103
104
      @property
105
      def total_cost(self):
106
        return self.quantity * self.product.discounted_price
```

Editing urls.py

Now that we have created almost all of the backend, now we need to link the ... well, links to show the website's interface (created later on) on specified web addresses. First off, we will import necessary stuff needed to write the urls.py file in first place: D. Add these lines at the start.

```
from django.urls import path
from app import views
from django.conf import settings
from django.conf.urls.static import static
from django.contrib.auth import views as auth_views
from .forms import LoginForm, MyPasswordChangeForm, MyPasswordResetForm, MySetPasswordForm
```

Then we need to specify all the links with redirects to a special list named **urlpatterns**. Add them like below mentioned

```
urlpatterns = [
                    path('', views.ProductView.as_view(), name="home"),
  9
                   # path('product-detail', views.product_detail, name='product-detail'),
path('product-detail/<int:pk>/', views.ProductDetailView.as_view(), name='product-detail'),
path('add-to-cart/', views.add_to_cart, name='add-to-cart'),
path('cart/', views.show_cart, name='showcart'),
path('cart/', views.plue.cart/'
11
12
                   path('cart/', views.show_cart, name= show
path('pluscart/', views.plus_cart),
path('minuscart/', views.minus_cart),
path('removecart/', views.remove_cart),
path('checkout/', views.checkout, name='checkout'),
13
14
15
16
                    path('removecart', views.remove_cart'),
path('checkout'), views.checkout, name='checkout'),
path('address/', views.address, name='address'),
path('orders/', views.orders, name='orders'),
path('paymentdone/', views.payment_done, name='paymentdone'),
17
18
19
20
21
22
                    path('mobile/', views.mobile, name='mobile'),
23
                    path('mobile/<slug:data>', views.mobile, name='mobiledata'),
24
25
                    path('laptop/', views.laptop, name='laptop'),
                    path('laptop/<slug:data>', views.laptop, name='laptopdata'),
27
28
                    path('accounts/login/', auth_views.LoginView.as_view(template_name='app/login.html',
                             authentication_form=LoginForm), name='login'),
                   authentication_rorm=LoginForm), name= login ),
# path('profile/', views.profile, name='profile'),
path('profile/', views.ProfileView.as_view(), name='profile'),
path('logout/', auth_views.LogoutView.as_view(next_page='login'), name='logout'),
path('passwordchange/', auth_views.PasswordChangeView.as_view(template_name='app/
    passwordchange.html', form_class=MyPasswordChangeForm, success_url='/passwordchangedone/'),
    name='passwordchangedone'),
path('passwordchangedone/', auth_views.PasswordChangeDoneView.as_view(template_name='app/
    passwordchangedone.html'), name='passwordchangedone'),
29
30
31
32
33
35
                    path("password-reset/", auth_views.PasswordResetView.as_view(template_name='app/
                   path( password-reset), auth_views:PasswordkesetView.as_view(template_name= app/
password_reset.html', form_class=MyPasswordResetForm), name="password_reset"),
path("password-reset_done/", auth_views.PasswordResetDoneView.as_view(template_name='app/
password_reset_done.html'), name="password_reset_done"),
path("password-reset-confirm/<uidbd4>/<token>/", auth_views.PasswordResetConfirmView.as_view(
template_name='app/password_reset_confirm.html', form_class=MySetPasswordForm), name="
                    password_reset_confirm"),
path("password-reset-complete/", auth_views.PasswordResetCompleteView.as_view(template_name='app/
password_reset_complete.html'), name="password_reset_complete"),
38
39
              path('registration/', views.CustomerRegistrationView.as_view(), name='customerregistration')
+ static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
40
41
```

Here we have now setup all the links with their respective redirects.

Editing views.py

Now we can work on views of our app, the most essential thing of our project so far. As always, first we will import everything. Start by coding this into start portion of **views.py** file.

```
1 from django.shortcuts import render, redirect, HttpResponse
2 from .models import Customer, Product, Cart, OrderPlaced
3 from .forms import CustomerRegistrationForm, CustomerProfileForm
4 from django.views import View
5 from django.contrib import messages
6 from django.http import JsonResponse
7 from django.db.models import Q
8 from django.contrib.auth.decorators import login_required
9 from django.utils.decorators import method_decorator
```

Then we can code our **ProductView** view. Here we call **home.html** (yet to be made) in **return render** tag.

```
class ProductView(View):
12
             totalitem = 0
13
             topwears = Product.objects.filter(category='TW')
14
             bottomwears = Product.objects.filter(category='BW')
15
16
             mobiles = Product.objects.filter(category='M')
             if request.user.is_authenticated:
17
18
                  totalitem = len(Cart.objects.filter(user=request.user))
             return render(request, 'app/home.html', {'topwears':topwears, 'bottomwears':bottomwears,
    mobiles':mobiles, 'totalitem':totalitem})
19
```

Then we will code **ProductDetailView** view.

```
class ProductDetailView(View):
22
        def get(self, request, pk):
            totalitem = 0
24
            product = Product.objects.get(pk=pk)
25
            print(product.id)
            item_already_in_cart=False
26
27
            if request.user.is_authenticated:
                totalitem = len(Cart.objects.filter(user=request.user))
28
                item already in cart = Cart.objects.filter(Q(product=product.id) & Q(user=request.user))
29
                    exists()
30
            return render(request, 'app/productdetail.html', {'product':product, 'item_already_in_cart':
                item_already_in_cart, 'totalitem':totalitem})
```

Now we code add_to_cart view. Note that we have also included a @login_required() tag, which tells the program to run this code only when asked by the user and the user is logged in otherwise it will

throw an error

```
@login_required()
     def add_to_cart(request):
33
34
          user = request.user
35
          item_already_in_cart1 = False
          product = request.GET.get('prod_id')
item_already_in_cart1 = Cart.objects.filter(Q(product=product) & Q(user=request.user)).exists()
36
37
38
          if item_already_in_cart1 == False:
               product_title = Product.objects.get(id=product)
39
              Cart(user=user, product=product_title).save()
messages.success(request, 'Product Added to Cart Successfully !!' )
40
41
               return redirect('/cart')
42
43
44
              return redirect('/cart')
45
46
```

Then we create the following views step by step

```
def show_cart(request):
49
50
        totalitem = 0
        if request.user.is_authenticated:
52
           totalitem = len(Cart.objects.filter(user=request.user))
           user = request.user
cart = Cart.objects.filter(user=user)
54
55
           amount = 0.0
56
           shipping_amount = 70.0
57
           totalamount=0.0
58
           cart_product = [p for p in Cart.objects.all() if p.user == request.user]
59
           print(cart_product)
60
            if cart_product:
61
                for p in cart_product:
                   tempamount = (p.quantity * p.product.discounted_price)
62
                   amount += tempamount
63
64
                   totalamount = amount+shipping_amount
               65
66
                return render(request, 'app/emptycart.html', {'totalitem':totalitem})
67
68
            return render(request, 'app/emptycart.html', {'totalitem':totalitem})
69
71
        if request.method ==
72
73
           prod_id = request.GET['prod_id']
            c = Cart.objects.get(@(product=prod_id) & @(user=request.user))
74
75
           c.quantity+=1
76
            c.save()
77
           amount = 0.0
78
            shipping_amount= 70.0
            cart_product = [p for p in Cart.objects.all() if p.user == request.user]
79
80
            for p in cart_product:
                tempamount = (p.quantity * p.product.discounted_price)
81
82
83
84
85
                amount += tempamount
86
87
           data = {
88
                'quantity':c.quantity,
89
                'amount':amount,
90
                'totalamount':amount+shipping_amount
91
92
93
            return JsonResponse(data)
94
95
            return HttpResponse("")
```

```
minus_cart(request):
           if request.method == 'GET':
    prod_id = request.GET['prod_id']
    c = Cart.objects.get(Q(product=prod_id) & Q(user=request.user))
 98
 99
100
101
                c.quantity-=1
102
                c.save()
                amount = 0.0
103
104
                shipping_amount= 70.0
105
                cart_product = [p for p in Cart.objects.all() if p.user == request.user]
                 for p in cart_product:
106
107
                     tempamount = (p.quantity * p.product.discounted_price)
108
109
110
                     amount += tempamount
111
112
113
114
                data = {
                      'quantity':c.quantity,
115
                     'amount':amount,
116
                     'totalamount':amount+shipping_amount
117
118
119
                return JsonResponse(data)
120
                return HttpResponse("")
122
      @login_required
123
124
      def checkout(request):
125
           user = request.user
           add = Customer.objects.filter(user=user)
126
           cart_items = Cart.objects.filter(user=request.user)
return render(request, 'app/checkout.html', {'add':add, 'cart_items':cart_items})
127
128
130
      @login_required
      def payment_done(request):
    custid = request.GET.get('custid')
    print("Customer ID", custid)
132
133
134
           user = request.user
           cartid = Cart.objects.filter(user = user)
135
           customer = Customer.objects.get(id=custid)
136
           print(customer)
137
           for cid in cartid:
    OrderPlaced(user=user, customer=customer, product=cid.product, quantity=cid.quantity).save()
138
139
                print("Order Saved")
140
           cid.delete()
print("Cart Item Deleted")
return redirect("orders")
141
142
143
144
```

```
145
     def remove_cart(request):
          if request.method == 'GET':
    prod_id = request.GET['prod_id']
    c = Cart.objects.get(Q(product=prod_id) & Q(user=request.user))
146
147
148
149
              c.delete()
              amount = 0.0
150
151
              shipping_amount= 70.0
152
              cart product = [p for p in Cart.objects.all() if p.user == request.user]
153
              for p in cart_product:
                   tempamount = (p.quantity * p.product.discounted_price)
154
155
156
157
158
                   amount += tempamount
159
160
161
              data = {
                    'amount':amount,
162
                   'totalamount':amount+shipping_amount
163
164
165
               r<mark>eturn</mark> JsonResponse(data)
166
167
              return HttpResponse("")
168
169
     @login_required
     def address(request):
170
          totalitem = 0
171
172
          if request.user.is authenticated:
              totalitem = len(Cart.objects.filter(user=request.user))
173
174
          add = Customer.objects.filter(user=request.user)
175
          return render(request, 'app/address.html', {'add':add, 'active':'btn-primary', 'totalitem':
              totalitem})
176
177
     @login_required
178
     def orders(request):
          op = OrderPlaced.objects.filter(user=request.user)
179
          return render(request, 'app/orders.html', {'order_placed':op})
180
181
182
          totalitem = 0
183
184
          if request.user.is_authenticated:
              totalitem = len(Cart.objects.filter(user=request.user))
185
186
          if data==None :
187
                   mobiles = Product.objects.filter(category='M')
188
          elif data == 'Redmi' or data == 'Samsung':
189
                  mobiles = Product.objects.filter(category='M').filter(brand=data)
190
          elif data == 'below
191
                  mobiles = Product.objects.filter(category='M').filter(discounted_price__lt=10000)
192
          elif data == 'above':
          mobiles = Product.objects.filter(category='M').filter(discounted_price__gt=10000)
return render(request, 'app/mobile.html', {'mobiles':mobiles, 'totalitem':totalitem})
laptop(request, data=None):
193
194
196
          totalitem = 0
197
198
          if request.user.is_authenticated:
199
              totalitem = len(Cart.objects.filter(user=request.user))
200
          if data==None :
201
                   laptops = Product.objects.filter(category='L')
          elif data == 'HP' or data == 'Dell':
202
                   laptops = Product.objects.filter(category='L').filter(brand=data)
203
204
          elif data == 'below':
                   laptops = Product.objects.filter(category='L').filter(discounted_price__lt=10000)
205
          elif data ==
206
207
                   laptops = Product.objects.filter(category='L').filter(discounted_price__gt=10000)
208
          return render(request, 'app/laptop.html', {'laptops':laptop, 'totalitem':totalitem})
209
```

```
class CustomerRegistrationView(View):
212
        form = CustomerRegistrationForm()
return render(request, 'app/customerregistration.html', {'form':form})
213
214
215
216
        form = CustomerRegistrationForm(request.POST)
if form.is_valid():
217
218
         messages.success(request, 'Congratulations!! Registered Successfully.')
219
         form.save()
220
        return render(request, 'app/customerregistration.html', {'form':form})
221
```

Note that here we add a new tag called @method_decorator.

To decorate every instance of a class-based view, you need to decorate the class definition itself. To do this you apply the decorator to the dispatch() method of the class.

A method on a class isn't quite the same as a standalone function, so you can't just apply a function decorator to the method – you need to transform it into a method decorator first.

The **method_decorator** decorator transforms a function decorator into a method decorator so that it can be used on an instance method.

More info at docs@diango

```
ethod_decorator(login_required, name='dispatch')
      class ProfileView(View):
224
          def get(self, request):
    totalitem = 0
225
226
227
               if request.user.is_authenticated:
                   totalitem = len(Cart.objects.filter(user=request.user))
228
              form = CustomerProfileForm()
return render(request, 'app/profile.html', {'form':form, 'active':'btn-primary', 'totalitem':
229
                   totalitem})
231
              totalitem = 0
233
234
               if request.user.is_authenticated:
                  totalitem = len(Cart.objects.filter(user=request.user))
235
              form = CustomerProfileForm(request.POST)
if form.is_valid():
236
                   usr = request.user
238
239
                   name = form.cleaned data['name']
                   locality = form.cleaned_data['locality']
240
                   city = form.cleaned_data['city']
state = form.cleaned_data['state']
241
242
                   zipcode = form.cleaned_data['zipcode']
243
244
                   reg = Customer(user=usr, name=name, locality=locality, city=city, state=state, zipcode=
245
                   reg.save()
                   messages.success(request, 'Congratulations!! Profile Updated Successfully.')
246
247
               return render(request,
                                         'app/profile.html', {'form':form, 'active':'btn-primary', 'totalitem':
                   totalitem})
248
```

Now before moving any further, I'd recommend you to apply your migrations. To do so, open a cmd window at your **manage.py** location and run **py manage.py migrate**. This will make sure that there are no issues about any migrations while running the project. Now running the <u>runserver</u> command will display an error as we haven't yet created the html files. So, let's just do that exact thing!

Step 4 | Creating HTML files

Coding base.html

Now that we have done all of our backend (I hope so), let's work on our front-end!

First off, we need to create **base.html** at **templates** folder inside **app** folder. Including other html files mentioned in this documentation, the file structure should look something like this. Feel free to create these files before hand as that will save some of your precious seconds.

```
templates
  - app
        address.html
       addtocart.html
       base.html <- The file we are going to create first
       checkout.html
       customerregistration.html
       emptycart.html
       - home.html
      - laptop.html
      - mobile.html
       - orders.html
       password reset.html
       password_reset_complete.html
       password_reset_confirm.html
       password_reset_done.html
        passwordchange.html
        passwordchangedone.html
        productdetail.html
        profile.html
```

Now we will begin with base.html

Here we load the **static** URL defined in **urls.py** file to utilize the static files. Here we also complete our **<head>** part of our **base.html**.

```
ctype html>
     {% load static %}
     <html lang="en">
       4
          <meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
 8
          <!-- Bootstrap CSS -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css" rel="
stylesheet" integrity="sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"
crossorigin="anonymous">
 9
10
11
           <!--www.carouset.cas--/
<li>k rel="stylesheet" href="{% static 'app/css/owl.carousel.min.css' %}">
13
14
           <!--FontAwesome CSS-->
<link rel="stylesheet" href="{% static 'app/css/all.min.css' %}">
15
16
17
           <!--Custom CSS-->
<link rel="stylesheet" href="{% static 'app/css/style.css' %}">
18
19
20
22
           <title>ShopX | {% block title %} {% endblock title %} </title>
23
```

Then we code the remaining part of our file as follows

```
<title>ShopX | {% block title %} {% endblock title %} </title>
    </head>
<body>
23
24
      25
26
27
28
        aria-label="Toggle navigation">
  <span class="navbar-toggler-icon"></span>
</button>
29
30
        31
32
33
34
            35
            36
37
             button" data-bs-toggle="dropdown" aria-expanded="false">
38
              Electronics
39
             </a>
             40
              <a class="dropdown-item" href="{% url 'mobile' %}">Mobile</a><a class="dropdown-item" href="{% url 'laptop' %}">Laptop</a>
41
43
             44
            <\iiclass="nav-item dropdown">
    <a class="nav-link dropdown-toggle text-white" href="#" id="fashionDropdown" role="
    button" data-bs-toggle="dropdown" aria-expanded="false">
45
46
47
              Fashion
             </a>
48
             49
              <a class="dropdown-item" href="#">Top Wear</a>
<a class="dropdown-item" href="#">Bottom Wear</a>
50
51
52
53
            54

<form class="d-flex">
<input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
<button class="btn btn-warning" type="submit">S</button>
55
56
57
58
59
           60
61
           {% if request.user.is authenticated %}
            62
63
64
                {{request.user.username|capfirst}}
              66
```

```
<a class="dropdown-item" href="{% url 'profile' %}">Profile</a>
<a class="dropdown-item" href="{% url 'orders' %}">Orders</a>
<a class="dropdown-item" href="{% url 'passwordchange' %}">Change Password</a>
/a>
/a</pre
68
69
                                    <a class="dropdown-item" href="{% url 'logout' %}">Logout</a>
70
                                 71
72
                             73
74
                              75

{% else %}
'!-class="nav-item mx-2">
'!-class="nav-item mx-2">
'!login' %
76
77
                              <a href="{% url 'login' %}" class="nav-link text-white">Login</a>
78
79
                              80
81
                              82
                             {% endif %}
83
84
                          </div>
25
                    </div>
86
87
                 </div>
88
```

Now we add our footer to our base.html

```
{% block banner_slider %} {% endblock banner_slider %}
           {% block livesale %} {% endblock livesale %}
 90
 91
           {% block main-content %} {% endblock main-content %}
 92
 93
          94
 95
 96
 97
           </footer> <!-- End Footer -->
 98
 99
          <script src="https://code.jquery.com/jquery-3.5.1.min.js" integrity="sha256-9/
aliU8dGd2tb60SsuzixeV4y/faTqgFtohetphbbj0=" crossorigin="anonymous"></script>
100
101
           <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/js/bootstrap.bundle.min.js"</pre>
102
           integrity="sha384-ygbV9kiqUc6oa4msXn9868pTtWMgiQaeYH7/t7LECLbyPA2x65Kgf800JFdroafW" crossorigin="
           anonymous"></script>
103
        <script src="{% static 'app/js/owl.carousel.min.js' %}"></script>
  <script src="{% static 'app/js/all.min.js' %}"></script>
    <script src="{% static 'app/js/myscript.js' %}"></script>
</body>
104
105
106
107
      </html>
108
```

Coding other .html files

address.html

Here you can see, we have included a special tag

{% extends 'app/base.html' %}

```
1 [{% extends 'app/base.html' %}
2 {% load static %}
3 {% block title %}Address{% endblock title %}
4 {% block main-content %}
```

What this tag does is it loads our base.html as ... well our base code and adds the following code after <head> block.

Now we add the remaining code to the file

```
8
10
12
     <div class="col-sm-9 offset-sm-1">
    <div class="row">
14
15
      {% for ad in add %}
       17
18
19
        <h3>Address: {{ forloop.counter }}</h3>
20
21
        Name: {{ad.name}}
        Locality: {{ad.locality}}
City: {{ad.city}}
State: {{ad.state}}
24
        Pin Code: {{ad.zipcode}}
26
      </div>
28
      {% endfor %}
30
      </div>
31
32
    </div>
   </div>
34
   {% endblock main-content %}
```

addtocart.html

```
extends 'app/base.html' %}
     {% extends 'app/b
{% load static %}
     {% block title %}Cart{% endblock title %}
     {% block main-content %}
      {% comment %} Below Code will be used by add_to_cart view {% endcomment %}
      {% if messages %}
      {% for message in messages %}
 8
       {{message}}
      {% endfor %}
10
      {% endif %}
      <div class="row">
  <h1 class="text-center mb-5">Shopping Cart</h1>
  <div class="col-sm-8">
12
13
14
       <div class="card">
  <div class="card-body">
15
         <h3>Cart Items</h3>
17
18
         {% for cart in carts %}
19
         <hr>>
         <div class="row">
  <div class="col-sm-3 text-center align-self-center"><img src="{{cart.product.product_image.url}}"
  alt="" srcset="" class="img-fluid img-thumbnail shadow-sm" height="150" width="150"> </div>
20
21
22
           <div class="col-sm-9">
23
24
             <h5>{{cart.product.title}}</h5>
            {{cart.product.description}}
<div class="my-3">
  <label for="quantity">Quantity:</label>
25
26
27
28
              <a class="minus-cart btn" pid="{{cart.product.id}}"><i class="fas fa-minus-square fa-lg"></i>
             </a>
29
               <span id="quantity">{{cart.quantity}}</span>
              <a class="plus-cart btn" pid="{{cart.product.id}}"><i class="fas fa-plus-square fa-lg"></i></a</pre>
30
             </div>
             <div class="d-flex justify-content-between">
32
             <a class="btn btn-sm btn-secondary mr-3 remove-cart" pid={{cart.product.id}}>Remove item </a>
34
             <span><strong>Rs. {{cart.product.discounted_price}}</strong></span>
            </div>
           </div>
36
37
38
          </div>
39
         </div>
40
         {% endfor %}
41
        </div>
42
43
44
       </div>
45
       <div class="col-sm-4">
  <div class="card">
46
```

```
49
           <h3>The Total Amount of</h3>
           50
51
            class="list-group-item d-flex justify-content-between align-items-center border-0 px-0 mb-3
54
                <strong>Total</strong> <small>(including VAT)</small>
57
              </div>
              <span><strong>Rs. </strong><strong id="totalamount"> {{totalamount|floatformat:2}}</strong></
58
           span>
59
60
           <div class="d-grid"><a href="{% url 'checkout' %}" class="btn btn-danger fw-bold">Place Order</a>
61
           ></div>
62
        </div>
       </div>
       </div>
64
65
66
     </div>
    </div>
67

<div class="container">
<div class="row">
<div class="col-sm-8">
<div class="card">
<div class="card">
<div class="card-body">
<h5 class="mb-4">We accept</h5>
<imm src="/% static 'app/images/</pre>
69
70
        <img src="{% static 'app/images/payment.png' %}" alt="" class="img-fluid">
</div>
74
      </div>
      </div>
    </div>
78
79
80
    {% endblock main-content %}
```

checkout.html

```
{% extends 'app/base.html' %}
{% load static %}
{% block title %}Checkout{% endblock title %}
{% block main-content %}
<div class="container">
  <div class="row mt-5">
  <div class="col-sm-6">
    <h4>Order Summary</h4>
    <hr>>
    {% for item in cart items %}
      <div class="card mb-2">
        <div class="card-body">
          <h5>Product: {{item.product.title}}</h5>
          Quantity: {{item.quantity}}
          Price: {{item.total cost}}
        </div>
      </div>
    {% endfor %}
    <small>Terms and Conditions: You are hereby accepting with our extended
    terms and conditions while making transactions with our service.</small>
  </div>
  <div class="col-sm-4 offset-sm-1">
    <h4>Select Shipping Address</h4>
    <form action="/paymentdone">
    {% for ad in add %}
      <div class="card">
        <div class="card-body">
        <h5>{{ad.name}}</h5>
        {{ad.locality}}, {{ad.city}}, {{ad.state}}- {{ad.zipcode}}
        </div>
      </div>
        <div class="form-check mt-2 mb-5">
          <input class="form-check-input" type="radio" name="custid" id="</pre>
          custadd{{forloop.counter}}" value="{{ad.id}}">
          <label class="form-check-label fw-bold" for='</pre>
          custadd{{forloop.counter}}">
            Address: {{ forloop.counter }} </label>
        </div>
      {% endfor %}
        <div class="text-end">
          ⟨button type="submit" class="btn btn-warning mt-3 px-5 fw-bold"⟩
          Continue</button>
        </div>
      </form>
    </div>
  </div>
</div>
{% endblock main-content %}
```

customerregistration.html

```
{% extends 'app/base.html' %}
{% load static %}
{% block title %}Customer Registration{% endblock title %}
{% block main-content %}
<div class="container">
 <div class="row my-3">
  <div class="col-sm-6 offset-sm-3">
   <h3>Customer Registration</h3>
   <hr>>
   <form action="" method="post" novalidate class="shadow p-5">
    {% if messages %}
    {% for message in messages %}
    <p {% if message.tags %} class="alert alert-{{message.tags}} mb-5" {% endif
     %}>{{message}}}
    {% endfor %}
    {% endif %}
     {% csrf_token %}
     {% for fm in form %}
      <div class="form-group mb-3">
      {{fm.label_tag}} {{fm}} <small class="text-danger">{{fm.errors|striptags}}
      </small>
     </div>
     {% endfor %}
     <input type="submit" value="Submit" class="btn btn-primary">
     <br>
     <div class="text-center text-primary fw-bold"><small>Existing User ? <a</pre>
    href="{% url 'login' %}" class="text-danger">Login Now</a> </small></div>
     {% if form.non_field_errors %}
      {% for error in form.non field errors %}
      {{error}}
      {% endfor %}
     {% endif %}
    </form>
  </div>
 </div>
</div>
{% endblock main-content %}
```

emptycart.html

home.html

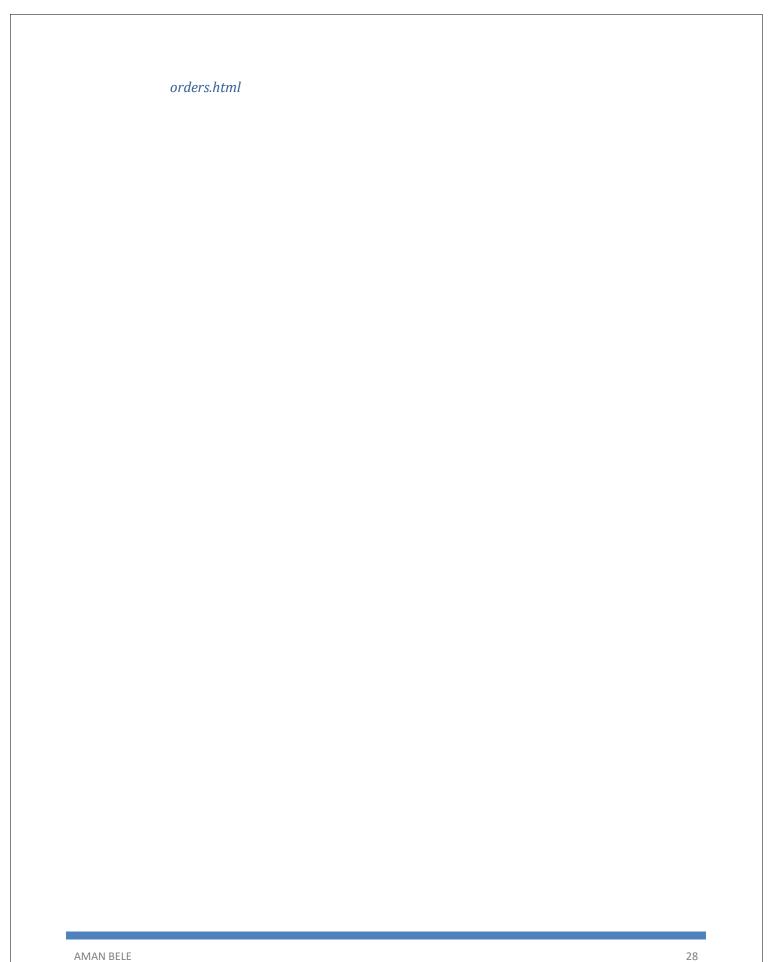
```
{% extends 'app/base.html' %}
{% load static %}
{% block title %}Home{% endblock title %}
     {% endblock banner_slider %}
                                                /class="row bp-danger text-center p-5 text-white border-bottom shadow">
ibSALE IS LIVE NOW(/h)>
punDSW Instant Discount for no oner/span>
mull class="fe-lighter">Terms and Conditions Applied (for details visit mfc * fake Nobick)
cite site of a consel defailed of the site of the site
ct- stider 3 =>
(div class="0.04" id="stider3")
(% for m in mobiles %)
ca here! % un' i product-detal! m.id %)" class="btn">cdiv.class="1ten">class
sec ((n.product-jumpc-un')) = "div.-" height="30>cpon class="feb bold">class="(n.product-jumpc-un') = "div.-" height="30>cpon class="feb bold">(n.product-jumpc-un') = "div.-" height="30>cpon class="feb bold">(m.ditcounted_price)/djpm>d/div.-" (m.ditcounted_price)/djpm>d/div.-"
```

laptop.html

```
'app/base.html' %}
         extends
      {% load static %}
 3
      {% block title %}Laptop{% endblock title %}
      {% block main-content %}
     {\div class="container my-5">
<div class="row">
<div class="col-sm-3">
<div class="list-group">
<div class="list-group">
<div class="list-group">
<div class="list-group">
</div class="list-group">
</div class="list-group">
</div class="list-group-item list-group-item-action" aria-current="true">All laptops</a>
</div </pre>
10
            <h3> Coming Soon! </h3>
        </div>
<div class="col-sm-8">
<div class="row">
14
           {% for product in laptops %}
           17
18
20
               {{product.selling_price}}</small></div>
            </div>
</a>
</div>
22
24
           {% endfor %}
        </div>
27
28
29
      {% endblock main-content %}
```

mobile.html

```
{\% \text{ extends 'app/base.html' } \%} {\% \text{ load static } \%}
  {% block title %}Mobile{% endblock title %}
  {% block main-content %}
  10
     12
13
14
   div class="col-sm-8">
17
18
    {% for product in mobiles %}
    19
20
21
22
23
24
25
     </div>
</a>
26
27
    {% endfor %}
28
29
30
   </div>
31
32
  </div>
33
  {% endblock main-content %}
```



```
{% extends 'app/base.html' %}
{% load static %}
{% block title %}Orders{% endblock title %}
{% block main-content %}
<h3>Welcome</h3>
 <div class="col-sm-2 border-end">

   class="d-grid"><a href="{% url 'orders' %}" class="btn btn-primary">
Orders</a>
   </div>
  {% for op in order_placed %}
     <div class= row shadow-sm mb-3 /
    <div class="col-sm-2"><img src="{{op.product.product_image.url}}" alt=""
    srcset="" class="img-fluid" height="150" width="150"></div>
    <div class="col-sm-7"></div></ti>

        Product: {{op.product.title}}
        Quantity: {{op.quantity}}
        Price: {{op.total_cost}}
       </div>
       <div class="col-sm-3 fw-bold">
        Order Status: {{op.status}}
         {% if op.status == 'Accepted' %}
         <div class="progress">
  <div class="progress-bar" role="progressbar" style="width: 20%"
  aria-valuenow="20" aria-valuemin="0" aria-valuemax="100"></div>
         </div>
         {% endif %}
         {% if op.status == 'Packed' %}
         <div class="progress">
  <div class="progress-bar bg-info" role="progressbar" style="width: 46"
   " aria-valuenow="40" aria-valuemin="0" aria-valuemax="100"></div>
         </div>
         {% endif %}
         {% if op.status == 'On The Way' %}
         </div>
         {% endif %}
         {% if op.status == 'Delivered' %}
         </div>
         {% endif %}
      </div>
     </div>
    {% endfor %}
 </div>
{% endblock main-content %}
```

password_reset.html

```
[% extends 'app/base.html' %]
{% load static %}
{% block title %}Reset Password{% endblock title %}
   {% block main-content %}
   6
      <h3>Reset Password</h3>
8
9
10
      <form action="" method="post" novalidate class="shadow p-5">
11
        {% csrf_token %}
        12
14
        {% endfor %}
<input type="submit" class="btn btn-primary mt-3" value="Submit">
16
17
18
        {% if form.non_field_errors %}
19
         {% for error in form.non_field_errors %}
         {{error}}
20
        {% endfor %}
        {% endif %}
22
     </form>
</div>
24
   </div>
26
27
   {% endblock main-content %}
```

password_reset_complete.html

password_reset_confirm.html

```
extends 'app/base.html' %}
    {% extends 'app/b
{% load static %}
    {% block title %}Password Reset Confirm{% endblock title %}
    {% block main-content %}
    <div class="container">
  <div class="row my-3">
    <div class="col-sm-6 offset-sm-3">
       <h3>Password Reset Confirm</h3>
       <hr>>
       <form action="" method="post" novalidate class="shadow p-5">
10
11
         {% csrf_token %}
         {% for fm in form %}
13
          <div class="form-group">
          {{fm.label_tag}} {{fm}} <small class="text-danger">{{fm.errors|striptags}}</small> <br>
14
15
16
         {% endfor %}
         <input type="submit" class="btn btn-primary mt-3" value="Submit">
17
         {% if form.non_field_errors %}
18
           {% for error in form.non_field_errors %}
19
           {{error}}
20
          {% endfor %}
21
         {% endif %}
23
        </form>
24
      </div>
25
     </div>
26
    {% endblock main-content %}
```

password_reset_done.html

```
{% extends 'app/base.html' %}
{% load static %}
     {% block title %}Password Reset Done{% endblock title %}
     {% block main-content %}
     <div class="container">
  <div class="row my-3">
    <div class="col-sm-6 offset-sm-3">
 6
       <h4 class="alert-heading">Well done!</h4>
 8
 9
       An Email has been sent with instructions to reset your password. <b>Check Your Email!</b>
10
11
       </div>
12
13
     </div>
14
     {% endblock main-content %}
```

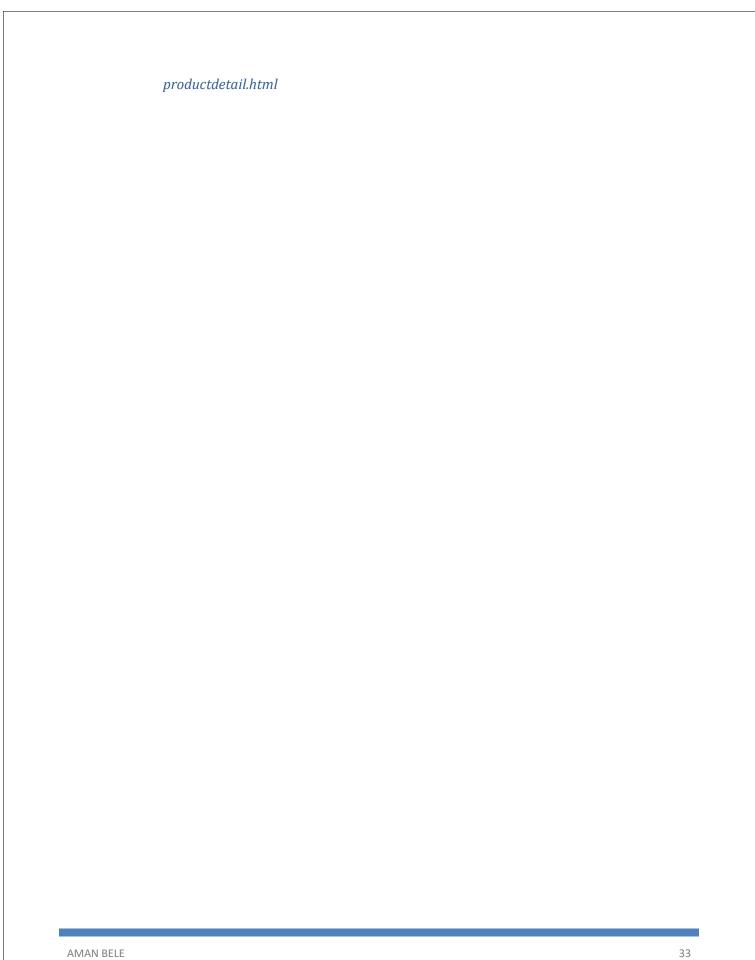
passwordchange.html

```
{% extends 'app/base.html' %}
{% load static %}
{% block title %}Change Password{% endblock title %}
         extends 'app/base.html' %}
     {% block main-content %}
     <div class="container my-5">
<div class="row">
      <h3>Welcome</h3>
       <div class="col-sm-2 border-end">

         class="d-grid"><a href="{% url 'profile' %}" class="btn btn-primary">Change Password</a>
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
       </div>
<div class="col-sm-6 offset-sm-1">
<h3>Change Password</h3>
             m action="" method="post" novalidate class="shadow-sm p-5">
           {% csrf_token %}
           {% for fm in form %}
            {% endfor %}
                        "submit" class="btn btn-primary mt-4" value="Save">
           {% if form.non_field_errors %}
            {% for error in form.non_field_errors %}
                        alert alert-danger my-3">{{error}}
            {% endfor %}
          {% endif %}
       </form>
</div>
     {% endblock main-content %}
```

passwordchangedone.html

```
{% extends 'app/base.html' %}
    {% load static %}
2
    {% block title %}Done!{% endblock title %}
3
4
    {% block main-content %}
    5
6
7
     <h3>Welcome</h3>
8
      <div class="col-sm-2 border-end">
       9
        class="d-grid"><a href="{% url 'profile' %}" class="btn btn-primary">Changed the
10
        password successfully!</a>
       11
      </div>
12
13
      <div class="col-sm-9 offset-sm-1 text-center">
14
         <h3>Password Changed Successfully !!</h3>
         <div><iframe src="https://giphy.com/embed/ibolLe3mOqHE3PQTtk" width="200" height="200
" frameBorder="0" class="giphy-embed" allowFullScreen></iframe></div>
15
16
      </div>
17
     </div>
    </div>
18
19
    {% endblock main-content %}
```



```
{% extends 'app/base.html' %}
{% load static %}
{% block title %}Product Detail{% endblock title %}
{% block main-content %}
img-thumbnail">
  </div>
  <div class="col-sm-5 offset-sm-1">
   <h2>{{product.title}}</h2>
   {product.description}} <br>
   <h4>Rs. {{product.discounted_price}} <small class="fw-light"
   text-decoration-line-through">{{product.selling_price}}</small></h4> <br>
   {% if user.is_authenticated %}
    ">Go to Cart</a>
    {% else %}
    <form action="/add-to-cart" class="d-inline">
  <input type="hidden" name="prod_id" value="{{product.id}}" id="prod_id">
  <button type="submit" class="btn btn-primary shadow px-5 py-2">Add to Cart
     </button>
     </form>
    {% endif %}
   {% endif %}
   {% if not request.user.is_authenticated %}
    <form action="/add-to-cart" class="d-inline">
    <input type="hidden" name="prod_id" value="{{product.id}}" id="prod_id">
      <button type="submit" class="btn btn-primary shadow px-5 py-2">Add to Cart
     </button>
     </form>
   {% endif %}
   <a href="{% url 'checkout' %}" class="btn btn-danger shadow px-5 py-2 ms-4">
   Buy Now</a>
   <h5 class="mt-5">Available Offers</h5>
   <l
    >Bank Offer 5% Unlimited Cashback on Flipkart Axis Bank Credit
    Special Price Get extra ₹3000 off (price inclusive of discount)
    No cost EMI ₹1,667/month. Standard EMI also available
    >Partner Offer ₹2000 Flipkart Gift Card on Every 1000th Transaction with
    a new Visa Debit/Credit Card
   </div>
 </div>
</div>
{% endblock main-content %}
```

profile.html

Step 5 | Adding css, js and image files

Now that you've created the necessary front-end websites, its time to import css, js and image files

I highly recommend you to get all of them from my GitHub.

Step 6 | Running the project

sigh Finally! The time has come, to execute our project. I hope you've followed the steps I've mentioned here and now you are ready to roll!

So, first of, open a cmd window at your manage.py location and type py manage.py migrate

Hit enter and then type py manage.py createsuperuser

This will open a CLI Interface to create an admin account. Enter your details and then, type **py** manage.py runserver.

BOOM!

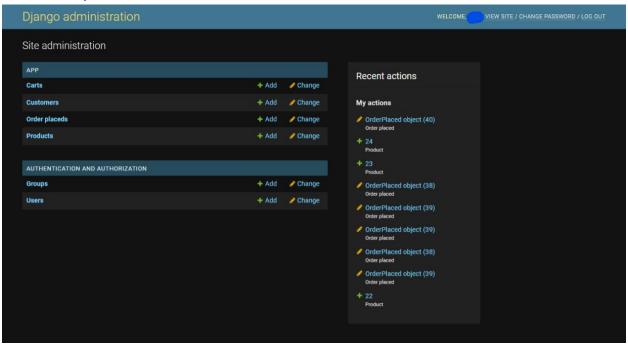
You should see a website like this AMAN BELE 36



Step 7 | Accessing the admin panel

Now as you have all the stuff loaded up and running, its time to finally add some items to your website, right? So, head over to localhost:8000/admin.

This will take you to an interface similar to this



Here you can click **Products** and it will take you to a product addition wizard! Pretty neat huh!

Troubleshooting

Any database errors?

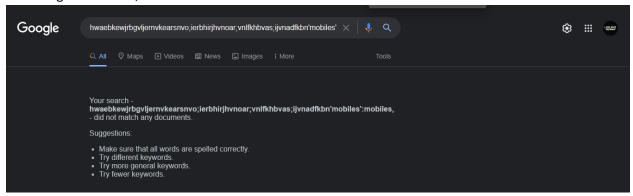
I recommend you to take the **db.sqlite3** file from my <u>GitHub</u>, and try replacing it with original one if that works. It will also provide you with some default products.

Note

Be sure to grab **media** folder from my <u>GitHub</u> as it contains all the image files and paste it in the main directory.

Bonus | Adding 404 Error Page

Every website isn't perfect nor complete. Let's take an example. On <u>Google</u>, search some random gibberish like,



Yea? See that page? Here Google returned with Your search did not match any documents.

You don't want customers to go anywhere and see this,

```
Page not found (404)

Request Method: GET
Request URL: http://localhost.8000/gibberish

Using the URLcord defined in shopx.urls, Django tried these URL patterns, in this order:

1. admin/
2. produc'home*]
3. produc'home*]
3. produc'home*]
4. add-to-cart/ [name*]
6. pluscart/
7. minuscart/
8. removecart/
10. name*noters/ [name*-checkout*]
10. address/ [name*-diddress*]
11. orders/ [name*-checkout*]
12. paymentdone/ [name*-paymentdone*]
13. mobile/ [name*-postile*]
14. mobile/ [name*-mobiledata*]
15. laptop/ [name*-inderistop*]
16. profile/ [name*-inderistop*]
17. accounts/Jogsin/ [name*-logout*]
18. profile/ [name*-postile*]
19. logout/ [name*-inderistop*]
20. passuord-hange/ [name*-passuord-changedone*]
21. passuord-hange/ [name*-passuord-changedone*]
22. passuord-reset-complete/ [name*-passuord_reset_complete*]
23. passuord-reset-complete/ [name*-passuord_reset_complete*]
24. passuord-reset-complete/ [name*-passuord_reset_complete*]
25. passuord-reset-complete/ [name*-passuord_reset_complete*]
26. registration/ [name*-passuord_reset_complete*]
27. *media/(Payath).*)$

The current path, gibber-ish, didn't match any of these.
```

We need to make it a subtle error page with a button to take those lost users to the home page right?

We are going to implement just that right now.

See when you execute the website right now, it will show an error. That's because we have some stuff related to 404 page already done! Now its time to finish it.

Adding 404 Page

You might remember that we have added line 9 at at you might remember that we have added line 9 at at

```
1 from django.contrib import admin
2 from django.urls import path, include
3
4 urlpatterns = [
5    path('admin/', admin.site.urls),
6    path('', include('app.urls')),
7 ]
8
9 handler404 = "shopx.views.page_not_found_view"
```

is the parent of app folder, so, any invalid links should redirect to the parent so parent
handles it.

So first, let's create a file named views.py in project> folder

Your directory should look something like this,

```
views.py <- Create this file
wsgi.py</pre>
```

Now in this file, add this bit of code,

```
1  from django.shortcuts import render
2
3  def page_not_found_view(request, exception):
4    return render(request, '404.html', status=404)
```

Now you might notice that we have called 404.html file, now we are going to make that file.

Create a new folder named **templates** and create a new file named **404.html** in the project_name>
folder. Your directory should look like this,

Now in 404.html, we are going to add this bit of code,

Note that you can add any kind of code here so it isn't necessary to use just my code but, well ... here I go anyways :D

Now that the 404.html is ready, let's also make some changes to **settings.py**. Django itself recommends to turn off **DEBUG=TRUE** in settings.py when in production.

```
Page not found (404)

Request Method: GET
Request URL: http://localhost.8000/gibberish

Using the URLconf defined in shopx.urls, Django tried these URL patterns, in this order:

1. adm.in/
2. [name='home']
3. product-detail/cint:pkb/ [name='product-detail']
4. add-to-centr/ [name='add-to-centr']
5. cart/ [name='showcart']
9. checkout/ [name='showcart']
10. address/ [name='address']
11. orders/ [name='orders']
11. orders/ [name='nedress']
11. orders/ [name='nedress']
11. orders/ [name='lapticy indexided indexide
```

Here if you take a look at the footer, you might see:

You're seeing this error because you have DEBUG = True in your Django settings file. Change that to False, and Django will display a standard 404 page

We want to change this,

Head over to **settings.py** and change these lines

```
26 DEBUG = False
27
28 ALLOWED_HOSTS = ['.localhost', '127.0.0.1', '[::1]']
```

Note that you can change **ALLOWED_HOSTS** to your domain, for example you've set your home router, and in the router settings you've set a domain, now you want your app to use that domain, then you should set it here as a string and voila! Nevermind... so then you want to set **DEBUG** = **False**. Now when you visit any invalid link, it will redirect you to this page.

Oops! 404 Not Found Sorry, an error has occured, Requested page not found! Take Me Home

So that's it! Now your lost customers will find a way to home! Hurray!

So that's it for this documentation, I hope you liked it! If you find any errors or doubts, be sure to visit my GitHub's issues page and file an issue there. I will do my best to answer those.

References

<u>GitHub</u>

Django

Project Provider

<u>Author</u>