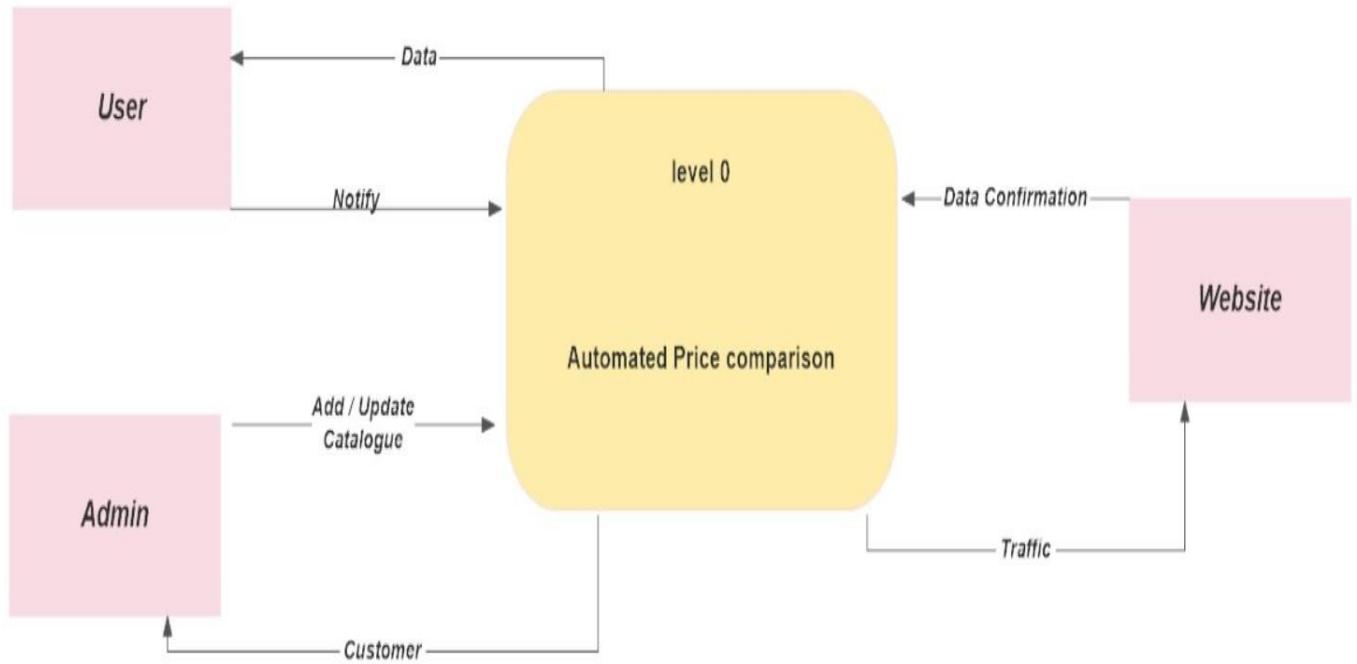


Chapter 3 : Experimental Study Procedures

- Context Diagram
- DFD level 1
- DFD level 2
- Use case Model
- Sequence Diagram
- Activity Diagram
- Screens

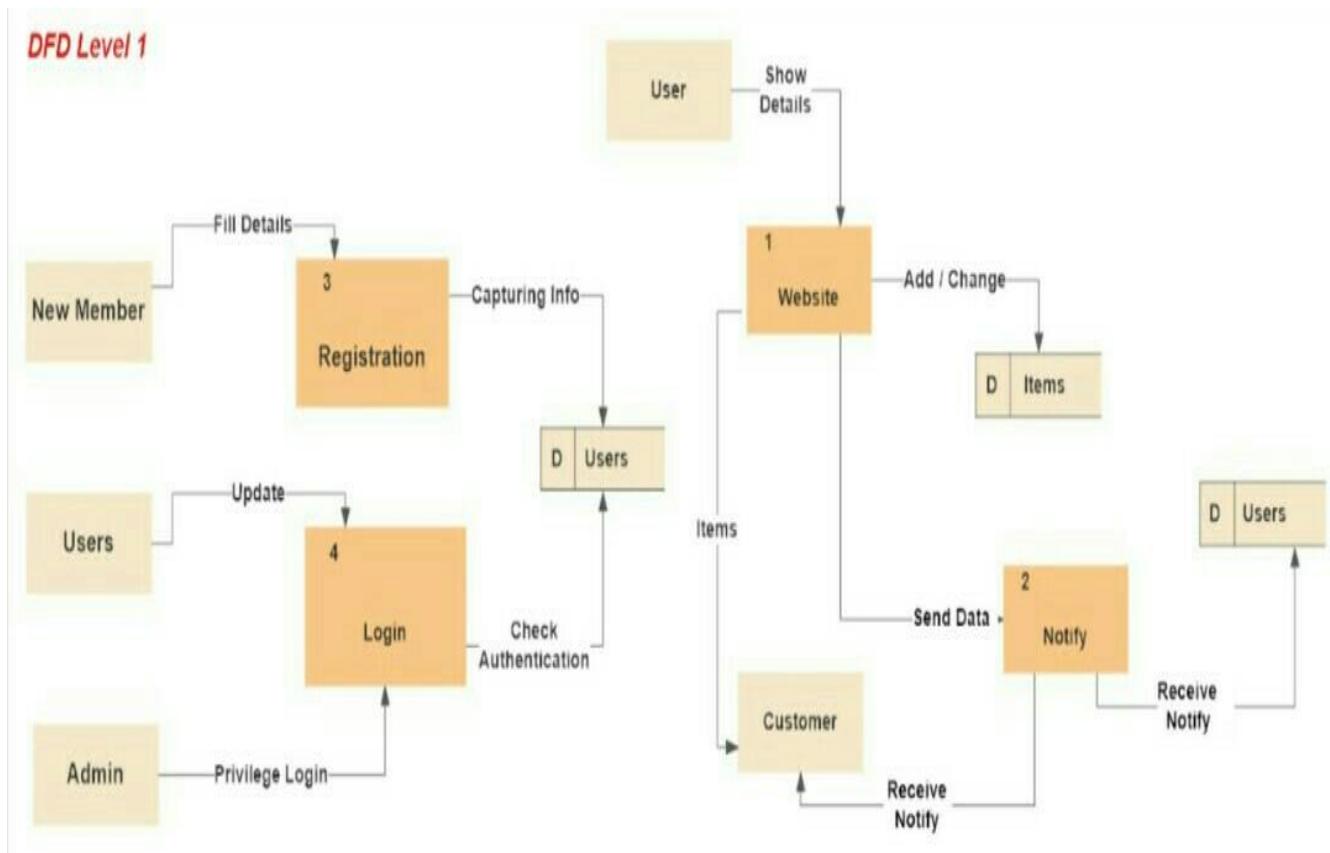
Context Diagram:



The system is recognized as complete system "Automated Price Comparison".

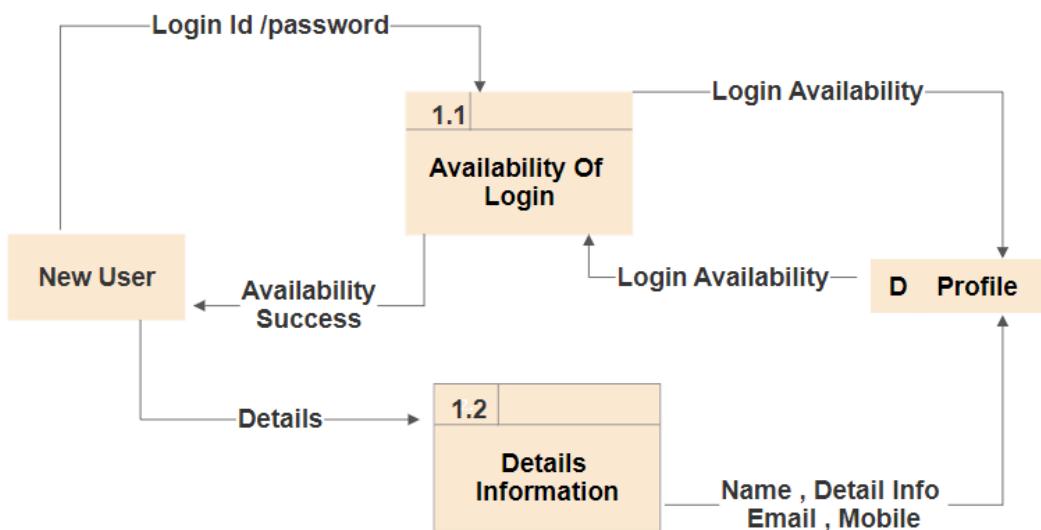
Admin, users, website are the main actors for this system.

1. DFD Level 1

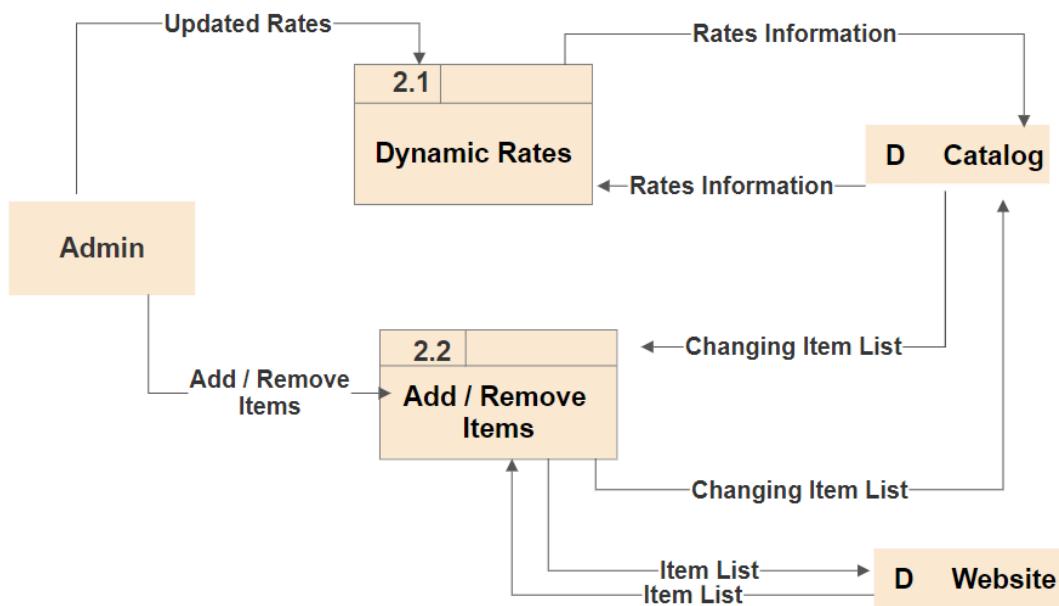
**DFD level 2 divide into:**

- Registration
- Maintenance
- Profile Handling
- Physical Transaction
- Login

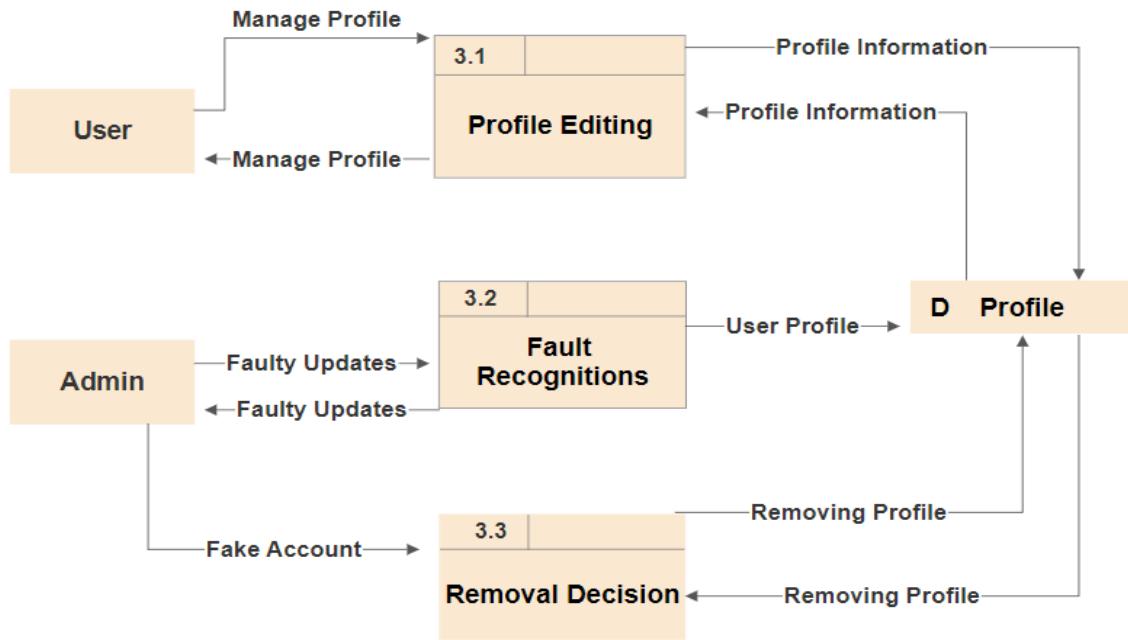
2. Registration



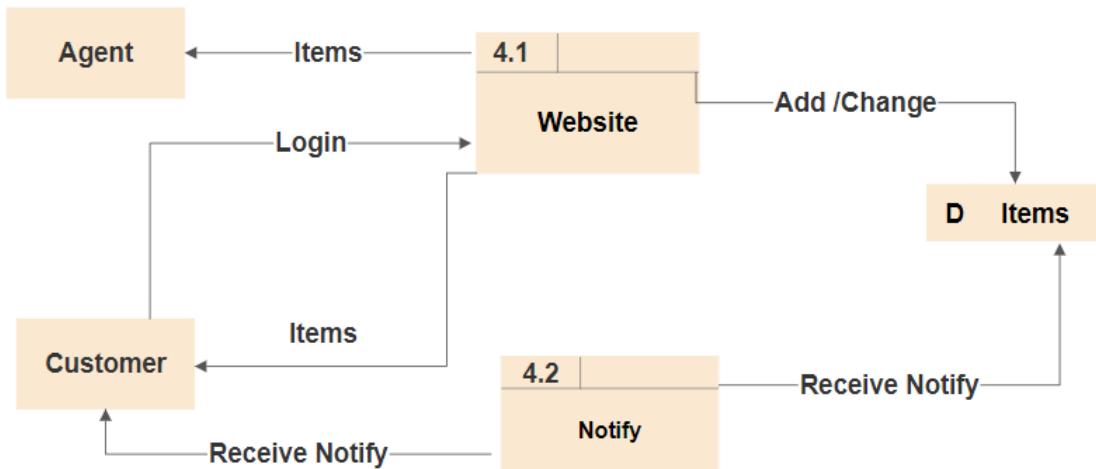
3. Maintenance



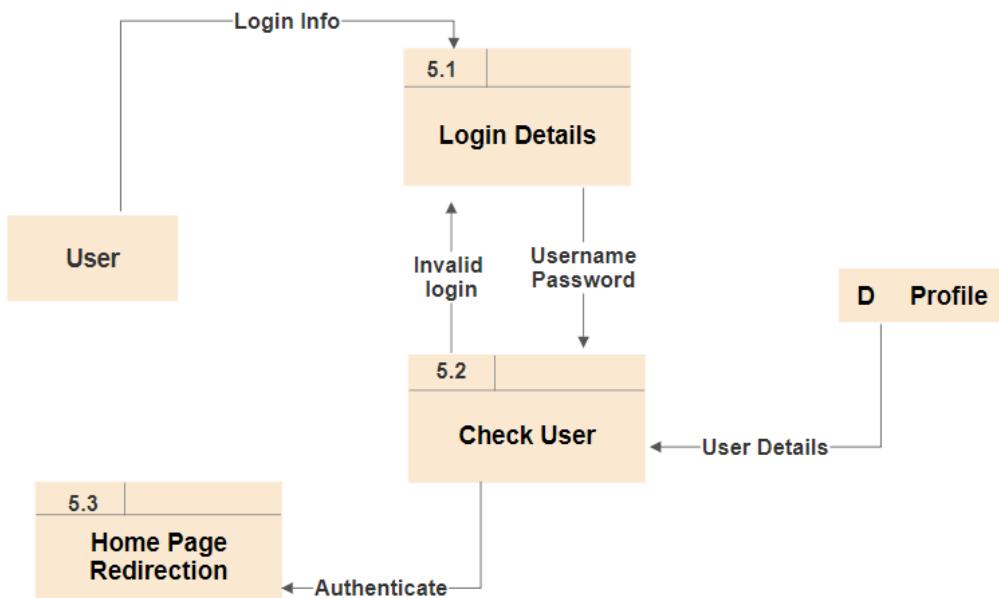
4. Profile Handling



5. Physical Transaction

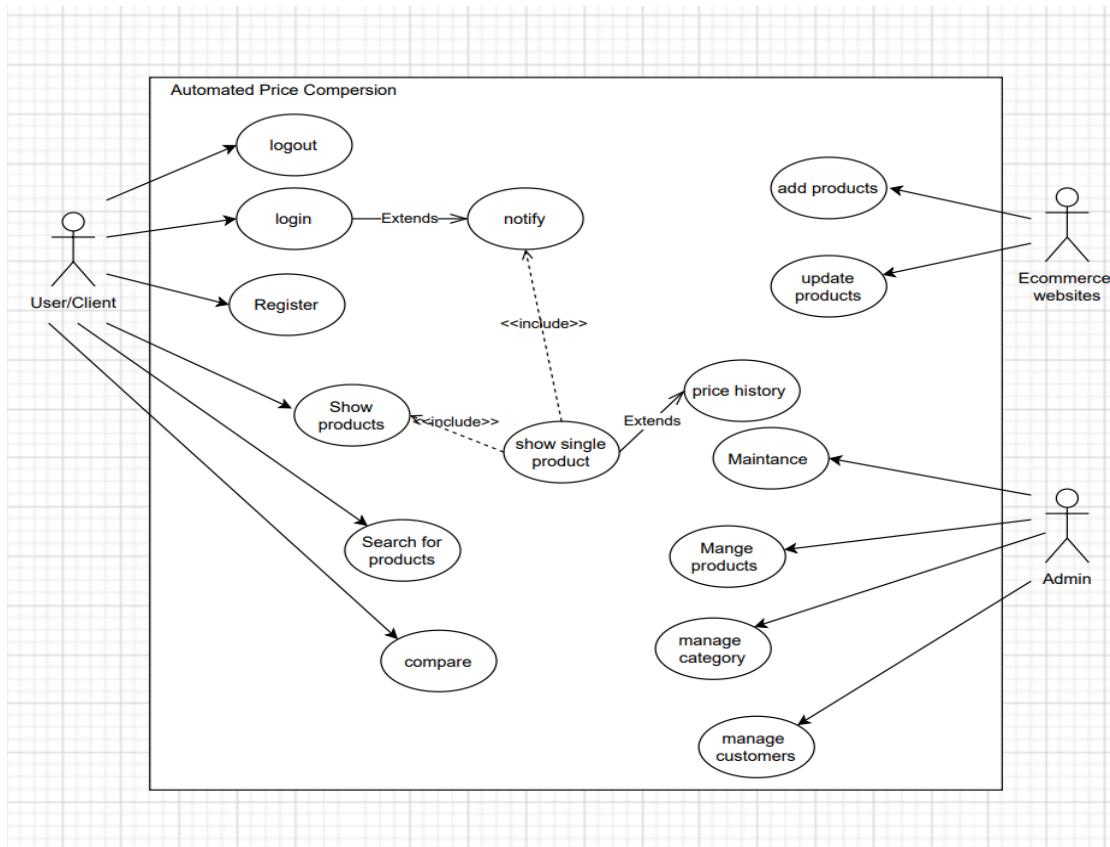


6. Login



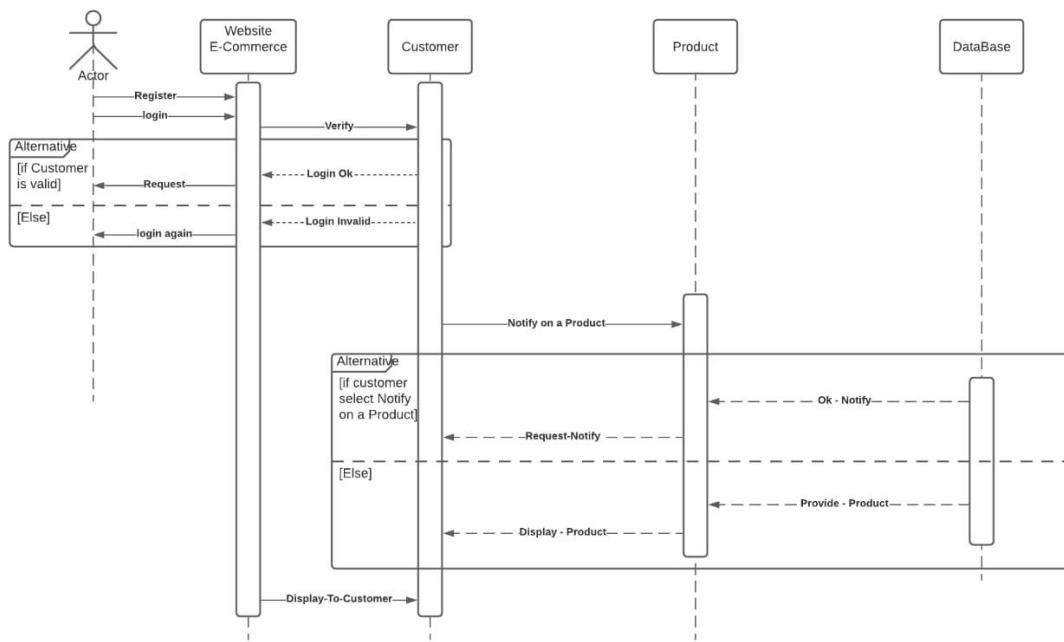
Use Case Model

A UML use case diagram is the primary form of system/software requirements for a new software program underdeveloped. Use cases specify the expected behavior (what), and not the exact method of making it happen (how). Use cases once specified can be denoted both textual and visual representation (i.e., use case diagram). A key concept of use case modeling is that it helps us design a system from the end user's perspective. It is an effective technique for communicating system behavior in the user's terms by specifying all externally visible system behavior.



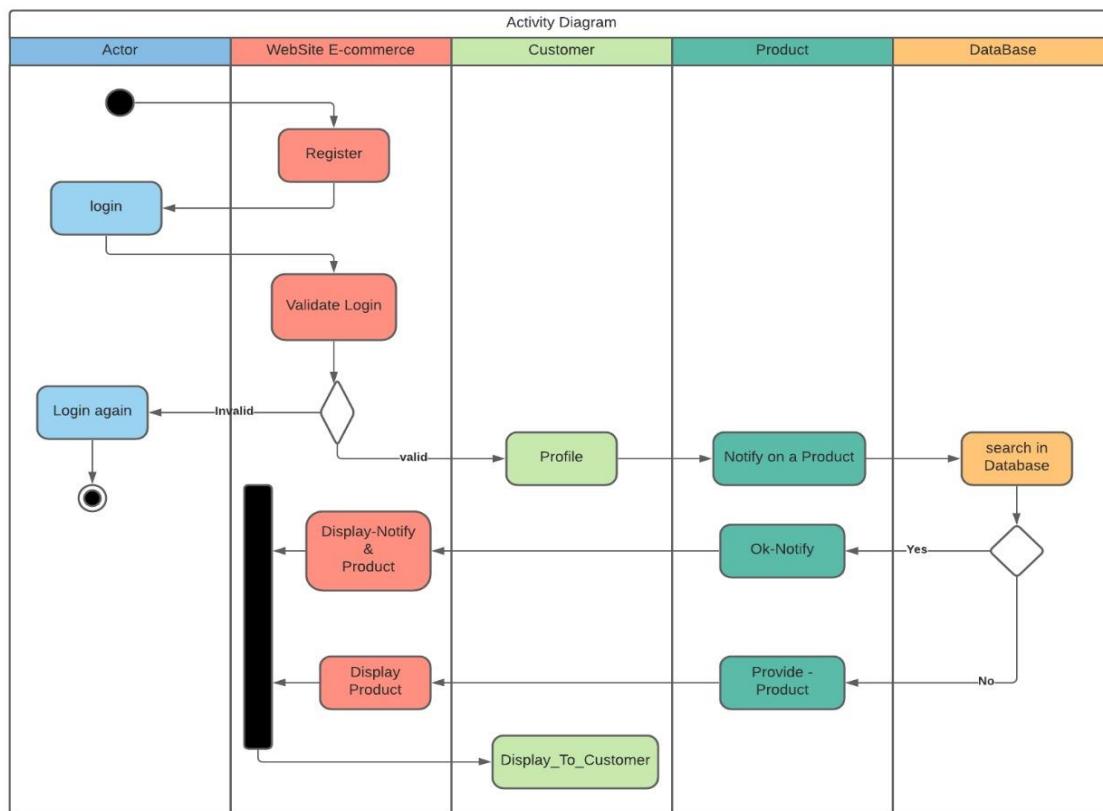
Sequence Diagram

A sequence diagram is a type of interaction diagram because it describes how—and in what order—a group of objects works together. These diagrams are used by software developers and business professionals to understand requirements for a new system or to document an existing process. Sequence diagrams are sometimes known as event diagrams or event scenarios.



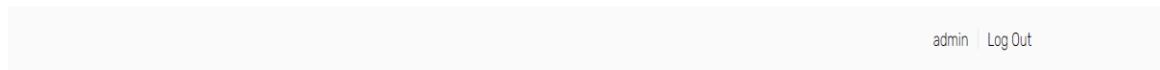
Activity Diagram

Activity Diagrams describe how activities are coordinated to provide a service which can be at different levels of abstraction. Typically, an event needs to be achieved by some operations, particularly where the operation is intended to achieve a number of different things that require coordination, or how the events in a single use case relate to one another, in particular, use cases where activities may overlap and require coordination.



Projects Screen divide into:

1. Search



2. Home

The home page features a navigation bar with "Home", "shop", and "Contact" links. On the left, there's a "Deals of the Week" section for a "LEMONDA S11 Smart Watch" with a silver strap, priced at 650.0EGP. The main content area has a "Featured" section displaying eight smartphone models (Apple iPhone 11 Pro Max, iPhone 11, iPhone 7, iPhone SE, iPhone 12 Pro Max, iPhone 12, iPhone 12 Mini, iPhone 8) each with a 25% discount badge and its price (e.g., 8500.0EGP, 12599.0EGP, 6490.0EGP, 11000.0EGP, 12599.0EGP, 12599.0EGP, 8800.0EGP, 22500.0EGP). A footer at the bottom shows page numbers 46, 43, and 41.

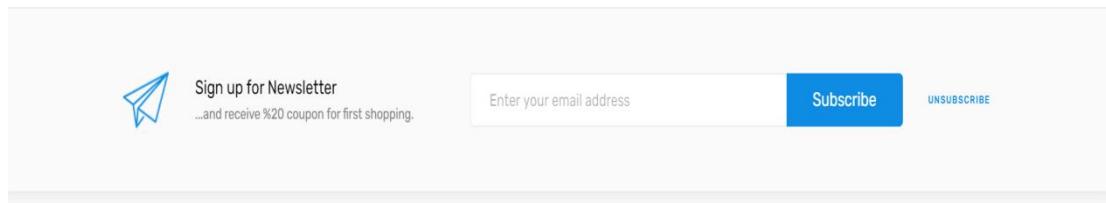
3. Popular Category



4. Hot Best Seller

Product	Rating	Price
Microsoft Xbox One 500 GB - White	5.0	8000.0EGP
Microsoft Xbox One S 1TB - White	4.6	5990.0EGP
Microsoft Xbox series S Digital 512 Giga	3.7	8800.0EGP
Xbox One S 1TB Console Shadow of War Bundle	5.0	7490.0EGP
Microsoft Xbox Series X Gaming Console, 1TB - Black	3.7	14898.0EGP
Microsoft Xbox 360 320 GB - Black	4.0	5999.0EGP

5. Footer



[Find it Fast](#)



Cables

Computer Casing

Computer Peripheral

Computers

Games Console

Games Console Accessories

Headphones and Headsets

Keyboards

Laptop Charger

Laptop Notebook

Memory Card

Mobile Phone

Mobile Phone Accessories

Network Switch

Power Banks

Routers

Server

Skins Decals

Smart Watches

Tablet

Tablet Accessories

VR

Watch Accessories

6. Products Detail

Home shop Contact

Mobile Phone

**Apple iPhone 12 Pro Max
256GB 6 GB RAM, Graphite**

★★★★★

Description:

DISPLAY
Size: 6.7 inches
Resolution: 2778 x 1284 pixels, 458 PPI
Technology: OLED
Screen-to-body: 87.45 %
Peak brightness: 1200 cd/m² (nit)
Features: HDR video support, Oleophobic coating, Scratch-resistant glass (Ceramic Shield), Ambient light sensor, Proximity sensor

DISPLAY
Size: 6.7 inches
Resolution: 2778 x 1284 pixels, 458 PPI
Technology: OLED
Screen-to-body: 87.45 %
Peak brightness: 1200 cd/m² (nit)
Features: HDR video support, Oleophobic coating, Scratch-

Expected Price **22500.00 EGP**

[notify me](#)

	Apple iPhone 12 Pro Max 128GB 6 GB RAM, Graphite	23625.0 EGP	Souq	Buy Now
	-6%			
	Apple iPhone 12 Pro 256GB 6 GB RAM Dual Sim, Graphite	26900.0 EGP	Souq	Buy Now
	-6%			
	iPhone 12 Pro Max With FaceTime - 256GB - Graphite	238.81 EGP	Jumia	Buy Now
	-6%			
	iPhone 12 Pro with FaceTime - 256GB - Graphite	259.0 EGP	Jumia	Buy Now
	-6%			

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

APC

7. Contact Form

Your Name

Your Email

Subject

Message

Send Message

8. Products

Home shop Contact

Laptop Notebook

Category

Brands

Search

25 products found

Image	Product Details	Rating	Price
	Laptop Notebook Apple MacBook Pro Late 2020 13.3 inch 5.0 ★★★★★ 26349.0EGP		
	Laptop Notebook Apple MacBook Air Early 2020 MVH22 Model With Touch ID, 10th Gen-Intel Core i5, 13.3 - 4.8 ★★★★★ 20999.0EGP		



Laptop Notebook
Apple Macbook Pro MVVM2
Laptop - Intel Core i9, 16 Inch,
1TB, 16 GB RAM, ...

4.7 ★★★★☆

49999.0EGP



Laptop Notebook
Apple MacBook Pro Mid 2020
MXK62 Model With Touch Bar And
Touch ID

5.0 ★★★★★

22299.0EGP



Laptop Notebook
Apple MacBook Air Early 2020
MVH52 Model With Touch ID, 10th
Gen-Intel Core i5, 13.3 ...

4.3 ★★★★☆

22900.0EGP



Laptop Notebook
Apple MacBook Air Early 2020
Model MVH42 With Touch ID, 10th
Gen-Intel Core i5, 13.3 ...

0.0 ★★★★★

24999.0EGP



Laptop Notebook

**HP Notebook 15-dw1018ne - 15.6
inch, Intel Core i7-10510U, 16GB
RAM, 1TB SATA, NVIDIA GeForce ...**

1.0 ★★★★★

26000.0EGP



Laptop Notebook

**HP Laptop 15.6 Inch ,512 GB,16 GB
RAM,Intel 9th Generation Core
i7,Windows,Dark Ash Silver - ...**

1.0 ★★★★★

41800.0EGP



Laptop Notebook

**HP Pavilion 15-Laptop Core i5-
1135G7 - 8GB RAM, 512G SSD,
15.6" HD - 2G NVIDIA MX350 ...**

0.0 ★★★★★

14900.0EGP

Page 1 of 2, next last »

9. Sign in

The screenshot shows the One Tech website's login interface. At the top right, there are links for "Register" and "Sign in". The main header features the "One Tech" logo, a search bar with placeholder text "Search for products...", and a magnifying glass icon. To the right of the search bar is a "Wishlist" button with a heart icon. Below the header, a navigation bar includes links for "Home", "shop", and "Contact". The central area contains a form for logging in, with fields for "Username" and "Password", both with placeholder text. A large blue "login" button is centered below the password field. At the bottom left of the form area, there is a link for "Lost password?".

10. Register

The screenshot shows the One Tech website's registration interface. At the top right, there are links for "Register" and "Sign up". The main header features the "One Tech" logo, a search bar with placeholder text "Search for products...", and a magnifying glass icon. To the right of the search bar is a "Wishlist" button with a heart icon. Below the header, a navigation bar includes links for "Home", "shop", and "Contact". The central area features a "Signup Now" heading. The registration form consists of several input fields: "Username" (placeholder: "Username"), "Email address" (placeholder: "Email address"), "Password" (placeholder: "Password"), and "Password confirmation" (placeholder: "Password confirmation"). Below the "Password" field, there are four small, faint text boxes providing password strength guidelines. A large blue "signup" button is centered at the bottom of the form.

11. Edit Profile

The screenshot shows the 'Edit profile' section of the APC application. It includes fields for Username (Shakataia), Email address (mohan[REDACTED]@gmail.com), First name, Last name, Image (Choose File - No file chosen), Phone number, and Address. A blue 'Edit Profile' button is at the bottom.

Home shop Contact

Edit profile

Username
Shakataia

Required: 150 characters or fewer. Letters, digits and @/./~/_- only.

Email address
mohan[REDACTED]@gmail.com

First name

Last name

Image
Choose File | No file chosen

Phone number

Address

Edit Profile

Apps:

- Accounts
- Jumia
- Noon
- Souq
- Products
- Projects
- Settings
- Static
- Templates
- Utils

Accounts:

1. Models

```

accounts > models.py > Profile > create_user_profile
1  from django.db import models
2  from django.contrib.auth.models import User
3  from django.db.models.signals import post_save
4  from django.dispatch import receiver
5  # Create your models here.
6
7
8  class Profile (models.Model):
9      user = models.ForeignKey(User, related_name='user_profile', on_delete=models.CASCADE)
10     image = models.ImageField(upload_to='profile/', blank=True, null=True)
11     phone_number = models.CharField(max_length=16, blank=True, null=True)
12     address = models.CharField(max_length=50, blank=True, null=True)
13
14
15     def __str__(self):
16         return str(self.user)
17
18
19
20
21     @receiver(post_save, sender=User)
22     def create_user_profile(sender, instance, created, **kwargs):
23         if created:
24             Profile.objects.create(user=instance)

```

2. Admin

```

accounts > admin.py
1  from django.contrib import admin
2
3  # Register your models here.
4
5
6  from .models import Profile
7
8
9
10 admin.site.register(Profile)

```

3.Urls

```

File Edit Selection View Go Run Terminal Help
EXPLORER ... urls.py 1 x
accounts > urls.py > ...
1 from django.urls import path  Import "django.urls" could not be resolved from source
2 from .views import signup, profile, profile_edit
3
4
5
6 app_name = 'accounts'
7
8 urlpatterns = [
9     path('signup', signup, name='signup'),
10    path('profile/', profile, name='profile'),
11    path('profile/edit', profile_edit, name='profile_edit'),
12]
13

```

The screenshot shows the Visual Studio Code interface with the 'urls.py' file open in the editor. The code defines URL patterns for an 'accounts' application, mapping paths to views for sign-up, profile viewing, and profile editing. There are several syntax errors highlighted in red in the code editor.

4. Forms

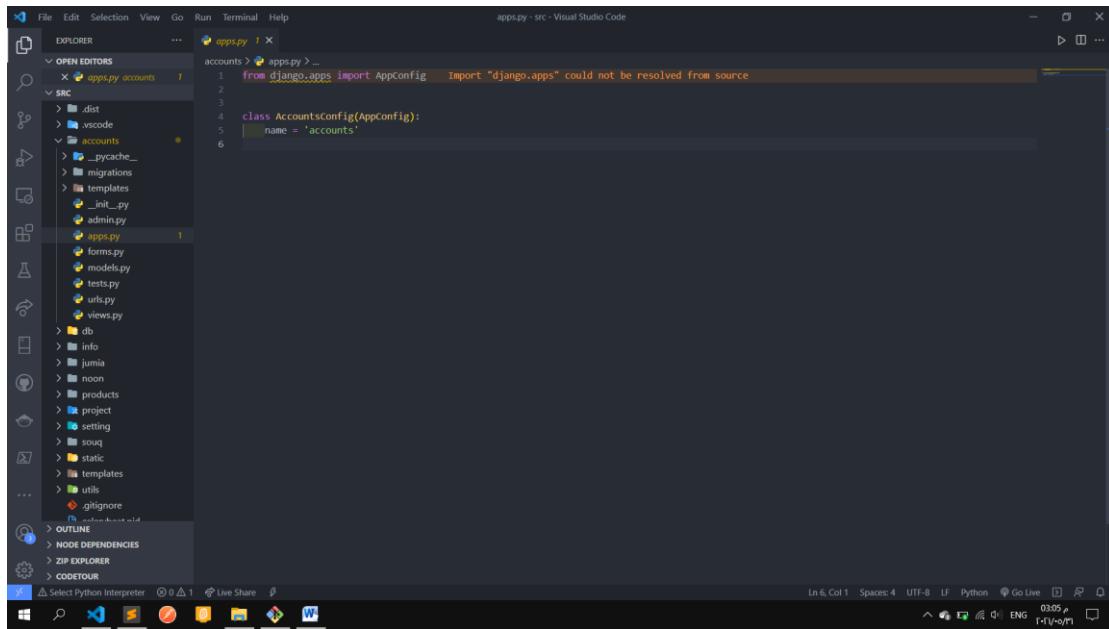
```

File Edit Selection View Go Run Terminal Help
EXPLORER ... forms.py 3 x
accounts > forms.py > ...
1 from django import forms  Import "django" could not be resolved from source
2 from .models import Profile
3 from django.contrib.auth.models import User  Import "django.contrib.auth.models" could not be resolved from source
4 from django.contrib.auth.forms import UserCreationForm  Import "django.contrib.auth.forms" could not be resolved from source
5
6
7
8 class UserCreateForm(UserCreationForm):
9     class Meta:
10         model = User
11         fields = ['username', 'email', 'password1', 'password2']
12
13
14 class UserForm(forms.ModelForm):
15     class Meta:
16         model = User
17         fields = ['username', 'email', 'first_name', 'last_name']
18
19
20
21 class ProfileForm(forms.ModelForm):
22     class Meta:
23         model = Profile
24         fields = ['image', 'phone_number', 'address']
25
26

```

The screenshot shows the Visual Studio Code interface with the 'forms.py' file open in the editor. The code defines three form classes: 'UserCreateForm', 'UserForm', and 'ProfileForm', all derived from Django's 'ModelForm'. Similar to the 'urls.py' file, there are multiple syntax errors indicated by red highlights in the code editor.

5. Apps



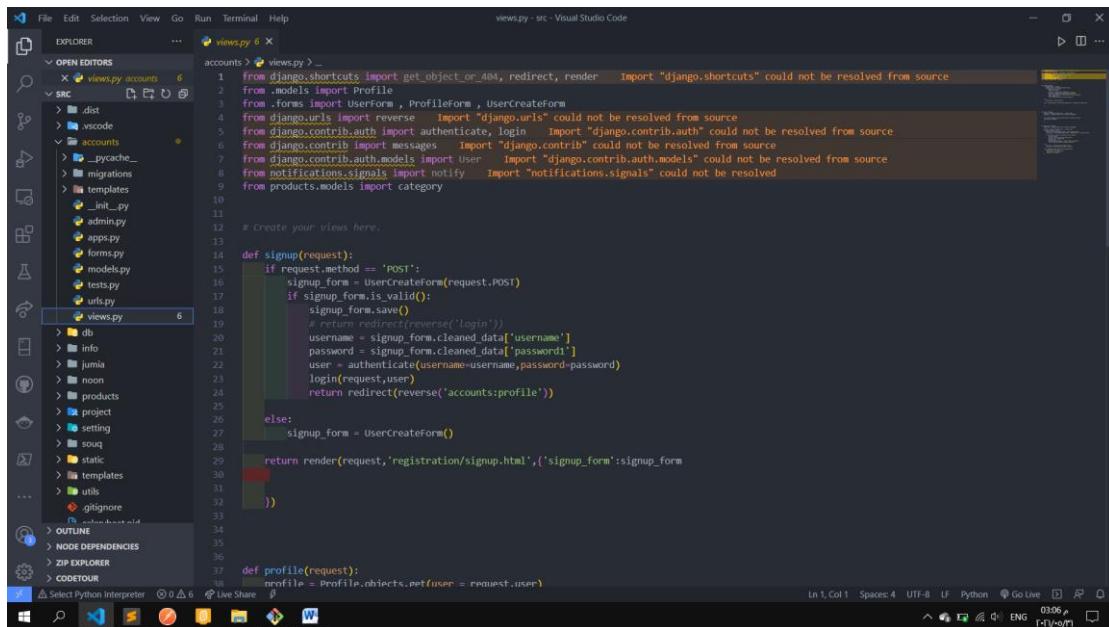
```

from django.apps import AppConfig
import "django.apps" could not be resolved from source

class AccountsConfig(AppConfig):
    name = 'accounts'

```

6. Views



```

from django.shortcuts import get_object_or_404, redirect, render
import "django.shortcuts" could not be resolved from source

from .models import Profile
from .forms import UserForm, UsercreateForm
from django.urls import reverse
import "django.urls" could not be resolved from source
from django.contrib import messages
import "django.contrib" could not be resolved from source
from django.contrib.auth import authenticate, login
import "django.contrib.auth" could not be resolved from source
from django.contrib.auth.models import User
import "django.contrib.auth.models" could not be resolved from source
from notifications.signals import notify
import "notifications.signals" could not be resolved
from products.models import category

# Create your views here.

def signup(request):
    if request.method == 'POST':
        signup_form = UsercreateForm(request.POST)
        if signup_form.is_valid():
            signup_form.save()
            # return redirect(reverse('login'))
            username = signup_form.cleaned_data['username']
            password = signup_form.cleaned_data['password']
            user = authenticate(username=username, password=password)
            login(request, user)
            return redirect(reverse('accounts:profile'))

    else:
        signup_form = UsercreateForm()

    return render(request, 'registration/signup.html', {'signup_form': signup_form})

def profile(request):
    profile = Profile.objects.get(user = request.user)

```

- Migrations [0001_initial.py]

The screenshot shows a Visual Studio Code window with the following details:

- Title Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help, 0001_initial.py - sic - Visual Studio Code
- Left Sidebar (Explorer):** Shows the project structure:
 - OPEN EDITORS: 0001_initial.py
 - SRC
 - __dist
 - vscode
 - accounts
 - __pycache__
 - migrations
 - __pycache__
 - 0001_initial.py
 - templates
 - __init__.py
 - admin.py
 - apps.py
 - forms.py
 - models.py
 - tests.py
 - urls.py
 - views.py
 - db
 - junit
 - noo
 - products
 - project
 - setting
 - souq
 - static
 - Center Area (Editor):** The code editor displays the content of 0001_initial.py:

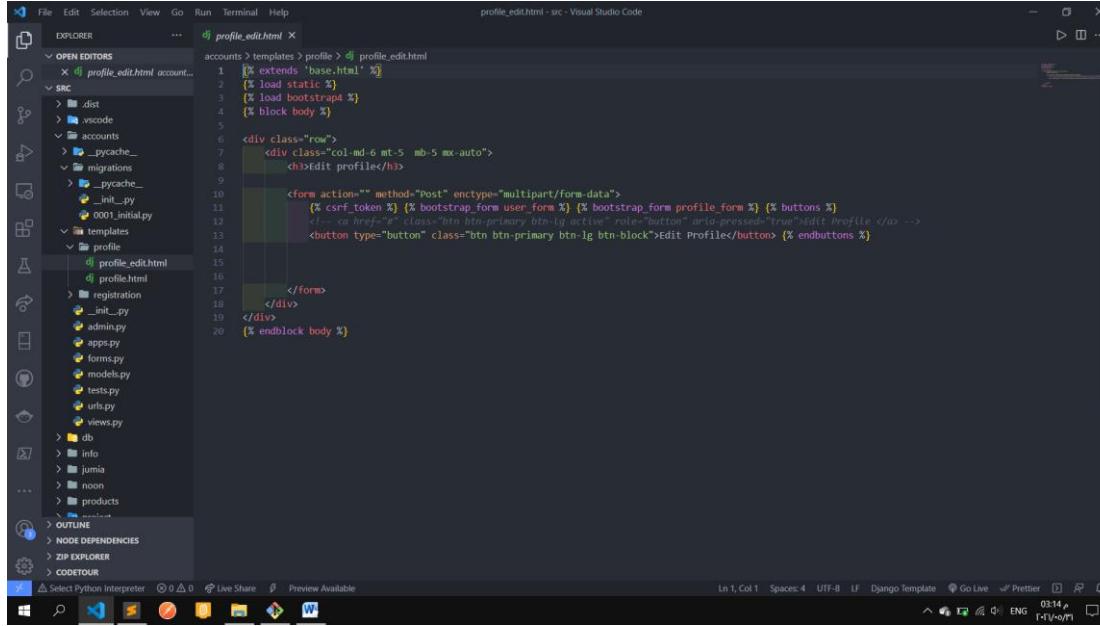
```
accounts > migrations > 0001_initial.py > __
```

```
1 # Generated by Django 3.1.5 on 2021-04-20 13:00
2
3 from django.conf import settings    Import "django.conf" could not be resolved from source
4 from django.db import migrations, models  Import "django.db" could not be resolved from source
5 import django.db.models.deletion  Import "django.db.models.deletion" could not be resolved from source
6
7
8
9
10 class Migration(migrations.Migration):
11     initial = True
12
13     dependencies = [
14         migrations.swappable_dependency(settings.AUTH_USER_MODEL),
15     ]
16
17     operations = [
18         migrations.CreateModel(
19             name='Profile',
20             fields=[
21                 ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
22                 ('image', models.ImageField(blank=True, null=True, upload_to='profile/')),
23                 ('phone_number', models.CharField(blank=True, max_length=16, null=True)),
24                 ('address', models.CharField(blank=True, max_length=50, null=True)),
25                 ('user', models.ForeignKey(on_delete=django.db.models.deletion.CASCADE, related_name='user_profile', to=settings.AUTH_USER_MODEL)),
26             ],
27         ),
28     ]

```
 - Bottom Status Bar:** In 28, Col 1 | Spaces: 4 | UTF-8 | LF | Python | Go Live | 03:10 AM | ENG | 1x100% /M

7. Templates

- o Profile /Profile.html



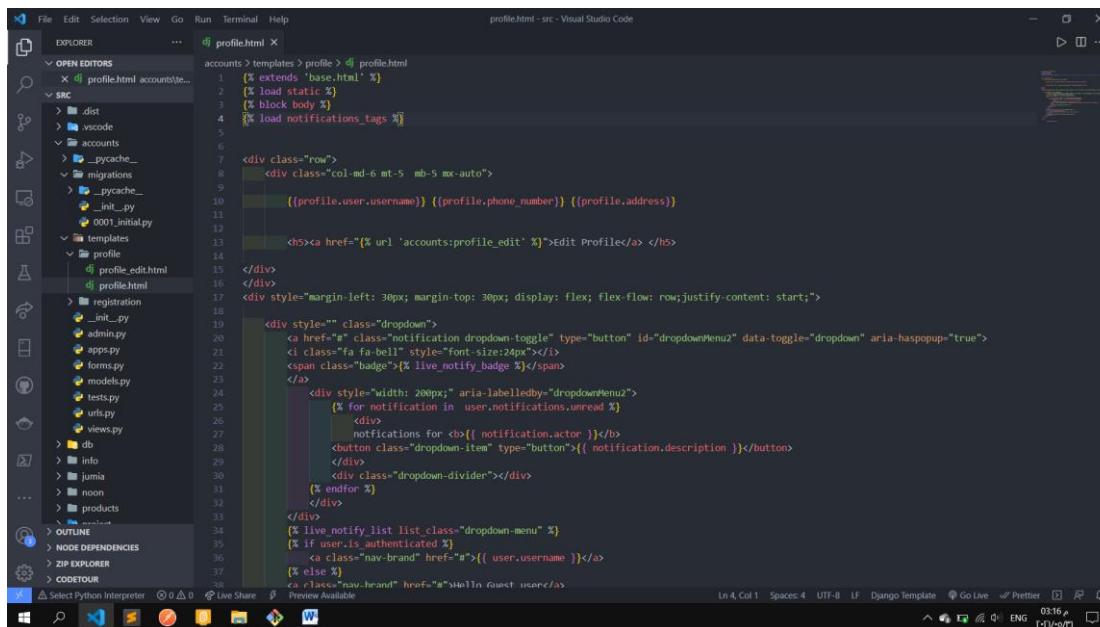
```

accounts> templates > profile > profile_edit.html
1  [% extends 'base.html' %]
2  [% load static %]
3  [% load bootstrap4 %]
4  [% block body %]

5  <div class="row">
6      <div class="col-md-6 mt-5 mb-5 mx-auto">
7          <h3>Edit profile</h3>
8
9          <form action="" method="Post" enctype="multipart/form-data">
10             [% csrf_token %] [% bootstrap_form user_form %] [% bootstrap_form profile_form %] [% buttons %]
11             <a href="#" class="btn btn-primary btn-lg active" role="button" aria-pressed="true">Edit Profile </a> ...
12             <button type="button" class="btn btn-primary btn-lg btn-block">Edit Profile</button> [% endbuttons %]
13
14         </form>
15     </div>
16 </div>
17 [% endblock body %]

```

- o Profile/Profile_edit.html



```

accounts> templates > profile > profile.html
1  [% extends 'base.html' %]
2  [% load static %]
3  [% block body %]
4  [% load notifications_tags %]

5  <div class="row">
6      <div class="col-md-6 mt-5 mb-5 mx-auto">
7          {{profile.user.username}} {{profile.phone_number}}
8          {{profile.address}}
9
10         <h5><a href="{% url 'accounts:profile_edit' %}">Edit Profile</a></h5>
11
12     </div>
13 </div>
14
15 <div style="margin-left: 30px; margin-top: 30px; display: flex; flex-flow: row; justify-content: start;">
16
17     <div style="" class="dropdown">
18         <a href="#" class="notification dropdown-toggle" type="button" id="dropdownMenu2" data-toggle="dropdown" aria-haspopup="true">
19             <i class="fa fa-bell" style="font-size:24px"></i>
20             <span class="badge">{{ live_notify_badge }}</span>
21         </a>
22         <div style="width: 200px;" aria-labelledby="dropdownMenu2">
23             [% for notification in user.notifications.unread %]
24                 <div>
25                     notifications for <b>{{ notification.actor }}</b>
26                 </div>
27                 <button class="dropdown-item" type="button">{{ notification.description }}
28             </div>
29             [% endfor %]
30         </div>
31     </div>
32
33     <% if user.is_authenticated %>
34         <a class="nav-link" href="#">Hello Guest, userone</a>
35     <% else %>
36         <a class="nav-link" href="#">Hello Guest, userone</a>
37     <% endif %>
38
39 </div>
40
41 <% live_notify_list list_class="dropdown-menu" %>
42 <% if user.is_authenticated %>
43     <a class="nav-link" href="#">Hello Guest, userone</a>
44 <% endif %>
45
46 <a class="nav-link" href="#">Hello Guest, userone</a>

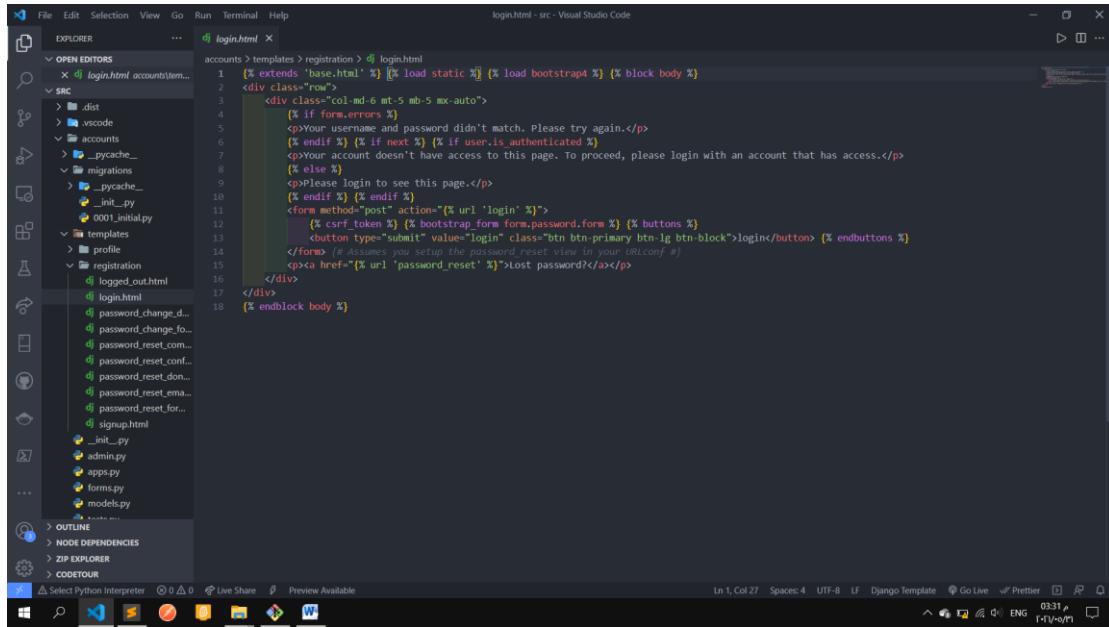
```

- Registration/Logged_out.html

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure under "SRC".
 - OPEN EDITORS:** "logged_out.html"
 - SRC:**
 - accounts
 - migrations
 - profile
 - registration
 - logged_out.html:** Content includes HTML and Django template tags.
 - login.html:** Content includes HTML and Django template tags.
 - password_change.html:** Content includes HTML and Django template tags.
 - password_change_form.html:** Content includes HTML and Django template tags.
 - password_reset_com...** (partially visible)
 - password_reset_conf...** (partially visible)
 - password_reset_don...** (partially visible)
 - password_reset_email...** (partially visible)
 - password_reset_for...** (partially visible)
 - signup.html:** Content includes HTML and Django template tags.
 - __init__.py**
 - admin.py**
 - apps.py**
 - forms.py**
 - models.py**
- Code Editor (Center):** Displays the "logged_out.html" file with Django template code.
- Bottom Status Bar:** Shows "logged_out.html - src - Visual Studio Code", "File Edit Selection View Go Run Terminal Help", "Ln 4, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier", and system icons.

- o Registration/Login.html



```

File Edit Selection View Go Run Terminal Help
EXPLORER ... login.html ...
OPEN EDITORS accounts > templates > registration > login.html
SRC > .dist > vscode > accounts > __pycache__ > migrations > __pycache__ > __init__.py > 0001_initial.py > templates > profile > registration > login.html > logged_out.html > login.html > password_change_d... > password_change_f... > password_change_com... > password_reset_conf... > password_reset_don... > password_reset_ema... > password_reset_for... > signup.html > __init__.py > admin.py > apps.py > forms.py > models.py > ...
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter 0 0 Live Share Preview Available Ln 1, Col 27 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:31 p

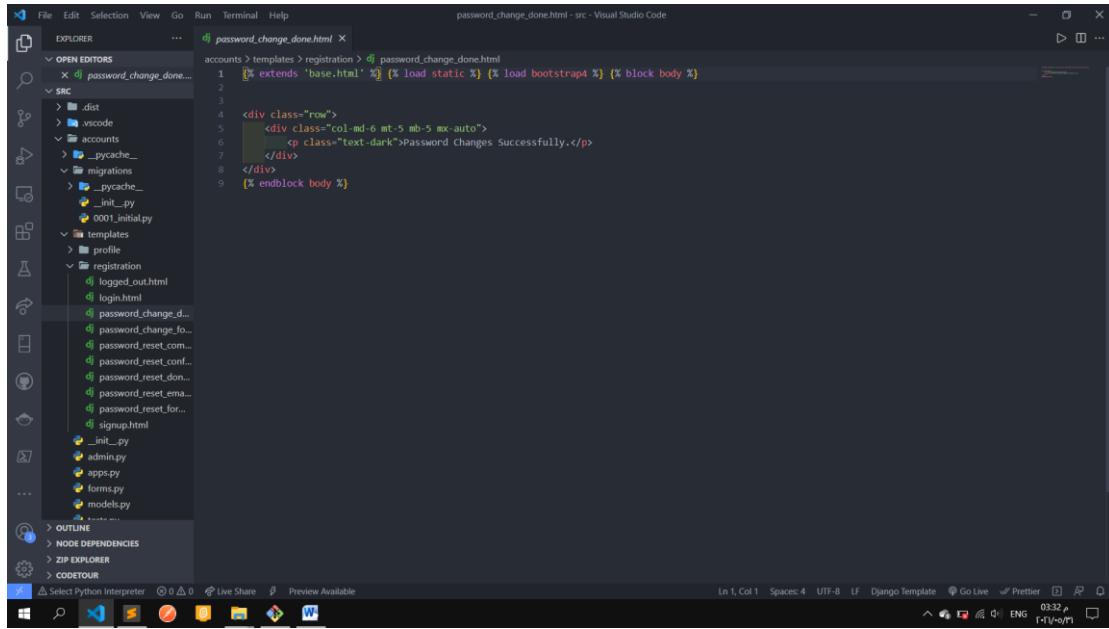
```

```

1 [% extends 'base.html' %] [% load static %] [% load bootstrap %] [% block body %]
2 <div class="row">
3   <div class="col-md-6 mt-5 mb-5 mx-auto">
4     [% if form.errors %]
5       <p>Your username and password didn't match. Please try again.</p>
6     [% endif %] [% if next %] [% if user.is_authenticated %]
7       <p>Your account doesn't have access to this page. To proceed, please login with an account that has access.</p>
8     [% else %]
9       <p>Please login to see this page.</p>
10      [% endif %] [% endif %]
11      <form method="post" action="[% url 'login' %}">
12        [% csrf_token %] [% bootstrap_form form.password.form %] [% buttons %]
13        <button type="submit" value="Login" class="btn btn-primary btn-lg btn-block">Login</button> [% endbuttons %]
14      </form> # Assumes you setup the password_reset view in your MIDDLEWARE
15      <p><a href="[% url 'password_reset' %]">Lost password?</a></p>
16    </div>
17  </div>
18  [% endblock body %]

```

- o Registration/Password_change_done.html



```

File Edit Selection View Go Run Terminal Help
EXPLORER ... password_change_done.html ...
OPEN EDITORS accounts > templates > registration > password_change_done.html
SRC > .dist > vscode > accounts > __pycache__ > migrations > __pycache__ > __init__.py > 0001_initial.py > templates > profile > registration > logged_out.html > login.html > password_change_d... > password_change_f... > password_change_com... > password_reset_conf... > password_reset_don... > password_reset_ema... > password_reset_for... > signup.html > __init__.py > admin.py > apps.py > forms.py > models.py > ...
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter 0 0 Live Share Preview Available Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:32 p

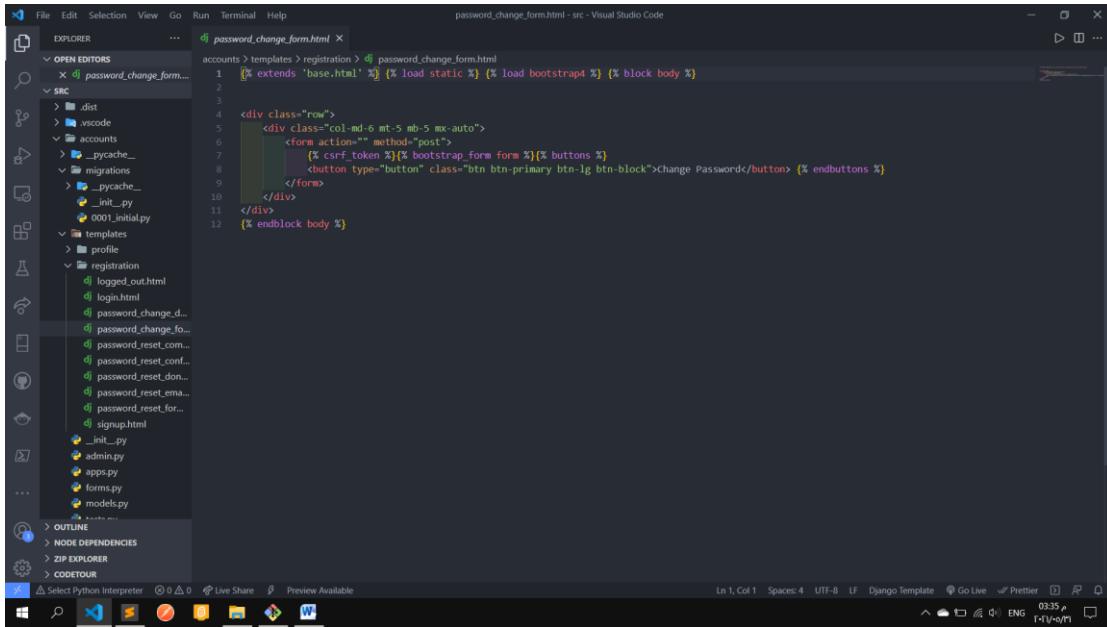
```

```

1 [% extends 'base.html' %] [% load static %] [% load bootstrap %] [% block body %]
2 <div class="row">
3   <div class="col-md-6 mt-5 mb-5 mx-auto">
4     <p>Password Changes Successfully.</p>
5   </div>
6 </div>
7 [% endblock body %]

```

- Registration/Password_change_form.html



```

File Edit Selection View Go Run Terminal Help
password_change_form.html - src - Visual Studio Code

EXPLORER ... password_change_form.html
OPEN EDITORS accounts/templates/registration/password_change_form.html
SRC > .dist
> vscode
accounts > _pycache_
> migrations > _pycache_
> __init__.py
> 0001_initial.py
templates > registration > logged_out.html
> login.html
> password_change_d...
> password_change_f...
> password_change_com...
> password_reset_conf...
> password_reset_don...
> password_reset_email...
> password_reset_for...
> signup.html
> __init__.py
> admin.py
> apps.py
> forms.py
> models.py
> ...
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 Live Share Preview Available Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:35 p ENG (1/1/0/0)

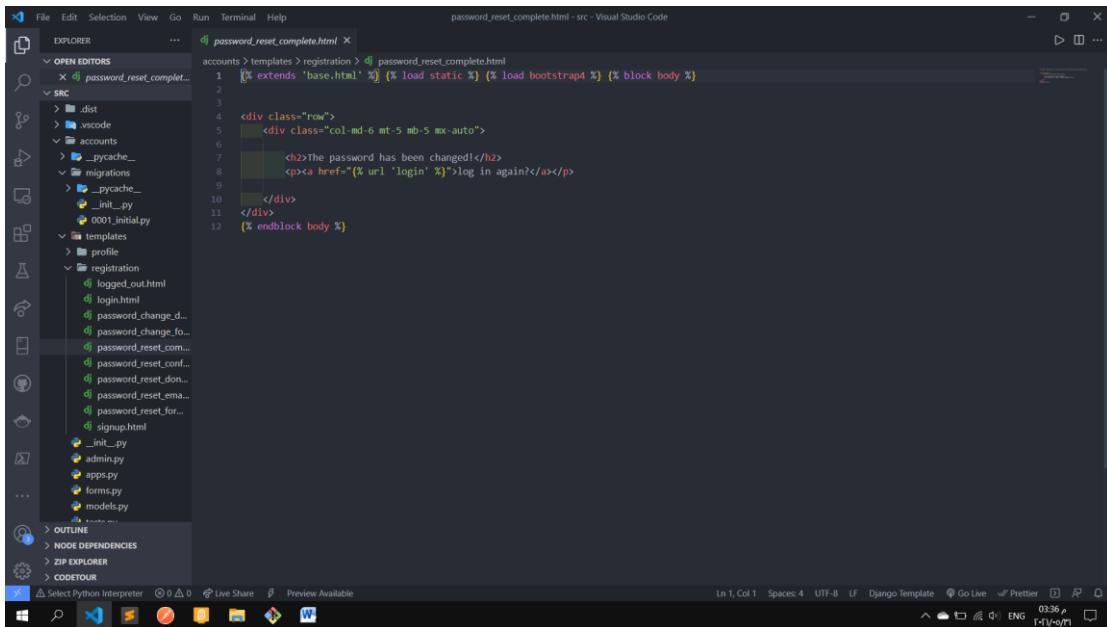
```

```

<% extends 'base.html' %> <% load static %> <% load bootstrap4 %> <% block body %>
<div class="row">
<div class="col-md-6 mt-5 mb-5 mx-auto">
<form action="" method="post">
<% csrf_token %> <% bootstrap_form Form %> <% buttons %>
<button type="button" class="btn btn-primary btn-lg btn-block">Change Password</button> <% endbuttons %>
</form>
</div>
</div>
<% endblock body %>

```

- Registration/Password_reset_complete.html



```

File Edit Selection View Go Run Terminal Help
password_reset_complete.html - src - Visual Studio Code

EXPLORER ... password_reset_complete.html
OPEN EDITORS accounts/templates/registration/password_reset_complete.html
SRC > .dist
> vscode
accounts > _pycache_
> migrations > _pycache_
> __init__.py
> 0001_initial.py
templates > registration > logged_out.html
> login.html
> password_change_d...
> password_change_f...
> password_change_com...
> password_reset_conf...
> password_reset_don...
> password_reset_email...
> password_reset_for...
> signup.html
> __init__.py
> admin.py
> apps.py
> forms.py
> models.py
> ...
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 Live Share Preview Available Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:36 p ENG (1/1/0/0)

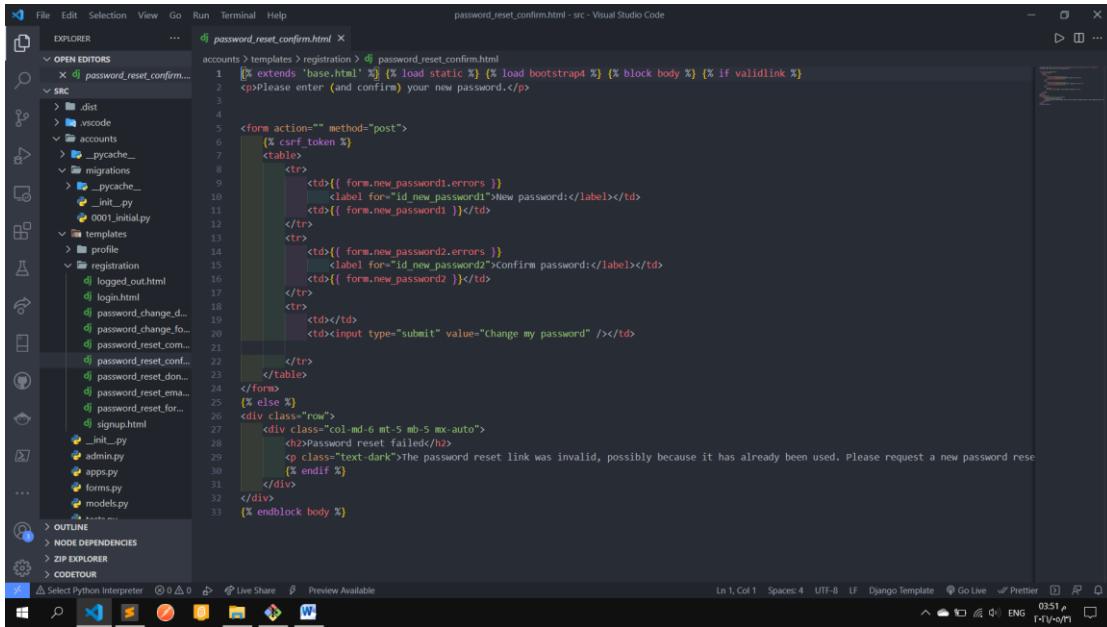
```

```

<% extends 'base.html' %> <% load static %> <% load bootstrap4 %> <% block body %>
<div class="row">
<div class="col-md-6 mt-5 mb-5 mx-auto">
<h2>The password has been changed!</h2>
<p><a href="{% url 'login' %}">log in again!</a></p>
</div>
</div>
<% endblock body %>

```

- Registration/Password_reset_confirm.html



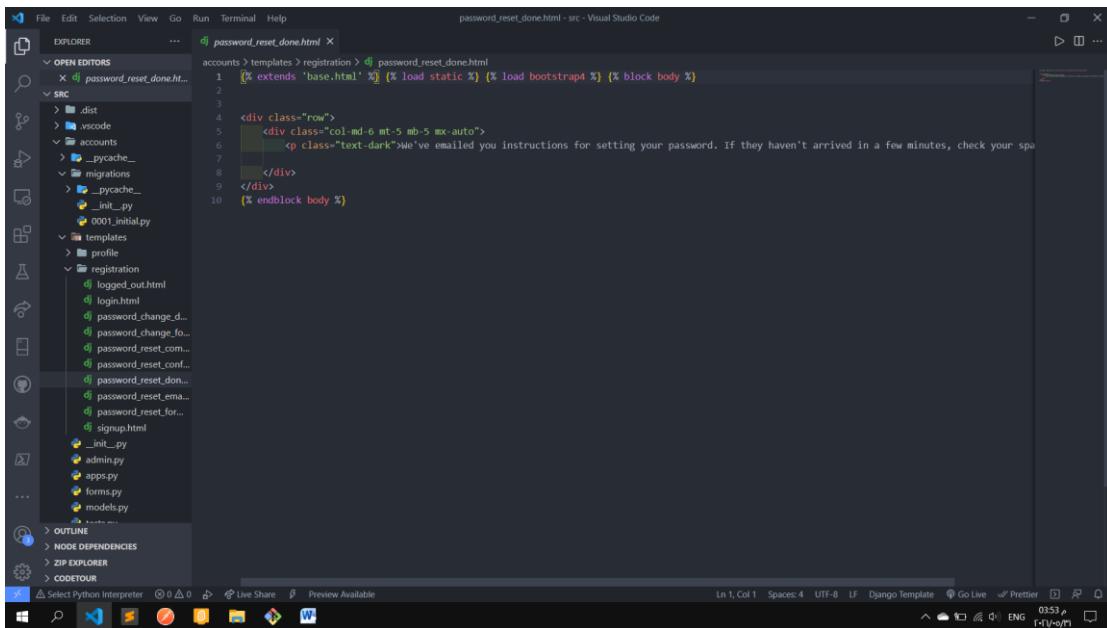
```

File Edit Selection View Go Run Terminal Help
password_reset_confirm.html - src - Visual Studio Code

OPEN EDITORS
  password_reset_confirm.html
SRC
accounts/templates/registration/password_reset_confirm.html
1 [% extends 'base.html' %] [% load static %] [% load bootstrap %] [% block body %] [% if validlink %]
2 <p>Please enter (and confirm) your new password.</p>
3
4
5 <form action="" method="post">
6   [% csrf_token %]
7   <table>
8     <tr>
9       <td>{{ form.new_password1.errors }}</td>
10      <td><label for="id_new_password1">New password:</label></td>
11    </tr>
12    <tr>
13      <td>{{ form.new_password1 }}</td>
14    </tr>
15    <tr>
16      <td>{{ form.new_password2.errors }}</td>
17      <td><label for="id_new_password2">Confirm password:</label></td>
18    </tr>
19    <tr>
20      <td><input type="submit" value="Change my password" /></td>
21    </tr>
22  </table>
23  </form>
24  [% else %]
25  <div class="row">
26    <div class="col-md-6 mt-5 mb-5 mx-auto">
27      <h2>Password reset failed</h2>
28      <p class="text-dark">The password reset link was invalid, possibly because it has already been used. Please request a new password reset.</p>
29    </div>
30  </div>
31
32  [% endblock body %]
33

```

- Registration/Password_reset_done.html



```

File Edit Selection View Go Run Terminal Help
password_reset_done.html - src - Visual Studio Code

OPEN EDITORS
  password_reset_done.html
SRC
accounts/templates/registration/password_reset_done.html
1 [% extends 'base.html' %] [% load static %] [% load bootstrap %] [% block body %]
2
3
4 <div class="row">
5   <div class="col-md-6 mt-5 mb-5 mx-auto">
6     <p class="text-dark">We've emailed you instructions for setting your password. If they haven't arrived in a few minutes, check your spam folder.</p>
7   </div>
8
9  [% endblock body %]
10

```

- o Registration/Password_reset_email.html

```

File Edit Selection View Go Run Terminal Help
EXPLORER ... password_reset_email.html ...
OPEN EDITORS accounts > templates > registration > password_reset_email.html
SRC > dist
> vscode
accounts > __pycache__ 
migrations > __pycache__ 
> __init__.py
0001_initial.py
templates > profile
registration > logged_out.html
> login.html
> password_change_d...
> password_change_f...
> password_change_com...
> password_reset_conf...
> password_reset_don...
> password_reset_email...
> password_reset_for...
> signup.html
> __init__.py
admin.py
apps.py
forms.py
models.py
...
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter Live Share Preview Available
Ln 3, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:56 p 11/12/0PM

```

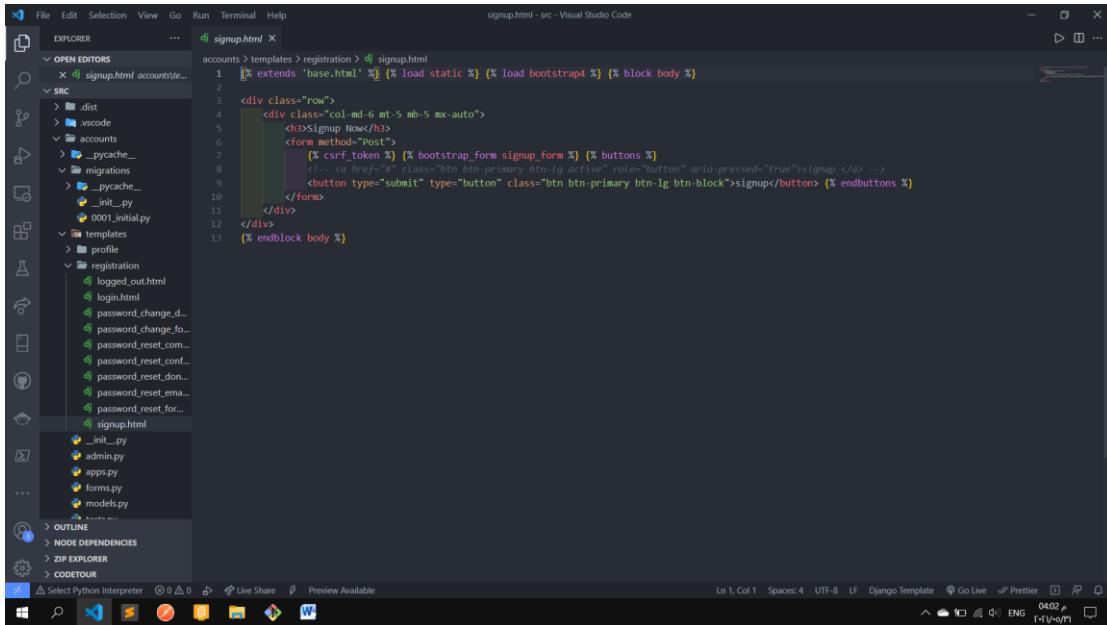
- o Registration/Password_reset_form.html

```

File Edit Selection View Go Run Terminal Help
EXPLORERS password_reset_email.html password_reset_form.html ...
OPEN EDITORS accounts > templates > registration > password_reset_form.html
SRC > dist
> vscode
accounts > __pycache__ 
migrations > __pycache__ 
> __init__.py
0001_initial.py
templates > profile
registration > logged_out.html
> login.html
> password_change_d...
> password_change_f...
> password_change_com...
> password_reset_conf...
> password_reset_don...
> password_reset_email...
> password_reset_for...
> signup.html
> __init__.py
admin.py
apps.py
models.py
...
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter Live Share Preview Available
Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:59 p 11/12/0PM

```

- Registration/Signup.html



```

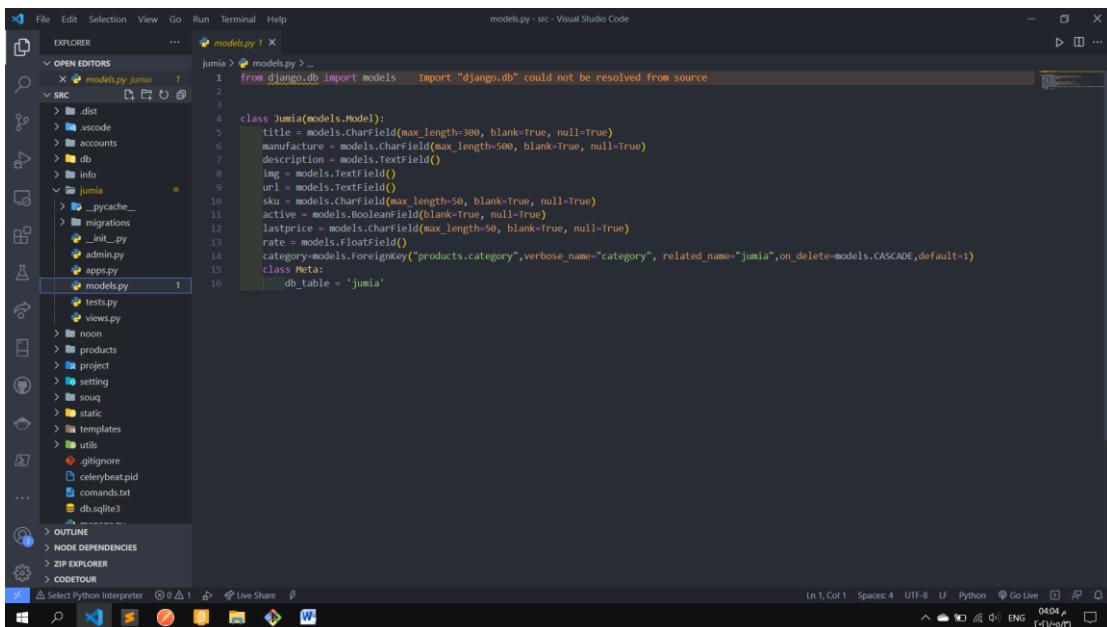
File Edit Selection View Go Run Terminal Help
EXPLORER ... signup.html X
OPEN EDITORS accounts > templates > registration > signup.html
1 [% extends 'base.html' %] [% load static %] [% load bootstrap4 %] [% block body %]
2
3 <div class="row">
4   <div class="col-md-6 mt-5 mb-5 mx-auto">
5     <h3>Signup Now</h3>
6     <form method="Post">
7       [&lt;div class="form-group"&gt;]
8         [&lt;label for="id_username"&gt;Username:&lt;/label&gt;]
9         [&lt;input type="text" name="username" id="id_username" class="form-control" /&gt;]
10        [&lt;div class="invalid-feedback"&gt;This field is required.&lt;/div&gt;]
11      [&lt;/div&gt;]
12    </form>
13  </div>
14
15 [% endblock body %]

```

The screenshot shows the Visual Studio Code interface with the 'signup.html' file open in the editor. The code is a Django template for a sign-up form. It includes imports for 'base.html', 'static', and 'bootstrap4'. The template uses a row-based layout with a central column for the sign-up form. It includes fields for the username and password, along with validation messages.

Jumia:

1. Models



```

File Edit Selection View Go Run Terminal Help
EXPLORER ... models.py X
OPEN EDITORS jumia > ...
models.py > ...
1 from django.db import models
2
3 class Jumia(models.Model):
4   title = models.CharField(max_length=300, blank=True, null=True)
5   manufacturer = models.CharField(max_length=500, blank=True, null=True)
6   description = models.TextField()
7   img = models.TextField()
8   url = models.TextField()
9   sku = models.CharField(max_length=50, blank=True, null=True)
10  active = models.BooleanField(blank=True, null=True)
11  lastprice = models.FloatField()
12  category=models.ForeignKey("products.category",verbose_name="category", related_name="jumia",on_delete=models.CASCADE,default=1)
13  class Meta:
14    db_table = 'jumia'
15
16

```

The screenshot shows the Visual Studio Code interface with the 'models.py' file open in the editor. The code defines a 'Jumia' model with fields for title, manufacturer, description, image URL, SKU, and active status. It also includes a relationship to the 'category' model via a foreign key. The 'db_table' meta-class is used to specify the database table name.

2. Admin

The screenshot shows the Visual Studio Code interface with a Django project open. The Explorer sidebar on the left displays the project structure, including a file named `admin.py` under the `jumia` directory. The Terminal tab at the top shows the following error message:

```
admin.py:1 from django.contrib import admin
Import "django.contrib" could not be resolved from source
```

The status bar at the bottom indicates the current file is `admin.py`, the Python interpreter is set to `Select Python Interpreter`, and the code editor has 1 change.

3. APPS

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows a project structure for a Django application named "jumia". The "SRC" folder contains "dist", "vscode", "accounts", "db", "info", and "jumia". Inside "jumia", there are "pycache_", "migrations", "init_.py", "admin.py", and several files under "apps": "apps.py", "models.py", "tests.py", and "views.py". Other files like "noon", "products", "project", "setting", "soup", "static", "templates", "utils", ".gitignore", "celerybeat.pid", "commands.txt", and "db.sqlite3" are also listed.
- Code Editor:** The main area displays the "apps.py" file with the following code:

```
jumia > apps.py > ...
1  from django.apps import AppConfig  Import "django.apps" could not be resolved from source
2
3
4  class JumiaConfig(AppConfig):
5      name = 'jumia'
```
- Status Bar:** At the bottom, it shows "File Edit Selection View Go Run Terminal Help" and "apps.py - src - Visual Studio Code". It also indicates "Line 1, Col 1" and "Spaces: 4" and "UTF-8".
- Bottom Icons:** Includes icons for Python Interpreter, Live Share, and other development tools.

4. Tests

```

File Edit Selection View Go Run Terminal Help
EXPLORER ... tests.py 1 ...
OPEN EDITORS jumia > tests.py
SRC > dist
> vscode
> accounts
> db
> info
jumia > _pycache_
> migrations
> __init__.py
> admin.py
> apps.py
> models.py
> tests.py 1
views.py
> noon
> products
> project
> setting
> souq
> static
> templates
> utils
> .gitignore
> celerybeat.pid
> commands.txt
> db.sqlite3
> ...
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 0 1 Live Share 04:10 p

```

The screenshot shows the Visual Studio Code interface with the 'tests.py' file open in the editor. The code contains:

```

1 from django.test import TestCase
2
3 # Create your tests here.
4

```

A red squiggle underlines 'django.test' with the tooltip 'Import "django.test" could not be resolved from source'. The Explorer sidebar shows the project structure with 'tests.py' selected.

5. Views

```

File Edit Selection View Go Run Terminal Help
EXPLORER ... views.py 1 ...
OPEN EDITORS jumia > views.py
SRC > dist
> vscode
> accounts
> db
> info
jumia > _pycache_
> migrations
> __init__.py
> admin.py
> apps.py
> models.py
> tests.py
> views.py 1
views.py
> noon
> products
> project
> setting
> souq
> static
> templates
> utils
> .gitignore
> celerybeat.pid
> commands.txt
> db.sqlite3
> ...
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 0 1 Live Share 04:12 p

```

The screenshot shows the Visual Studio Code interface with the 'views.py' file open in the editor. The code contains:

```

1 from django.shortcuts import render
2
3 # Create your views here.
4

```

A red squiggle underlines 'django.shortcuts' with the tooltip 'Import "django.shortcuts" could not be resolved from source'. The Explorer sidebar shows the project structure with 'views.py' selected.

6. Migrations

- o 0001_initial.py

```
jumia > migrations > 0001_initial.py > Migration
# Generated by Django 3.1.7 on 2021-04-04 11:10

from django.db import migrations, models
# Import "django.db" could not be resolved from source
import django.db.models.deletion
# Import "django.db.models.deletion" could not be resolved from source

class Migration(migrations.Migration):
    initial = True

    dependencies = [
        ('products', '0001_initial'),
    ]

    operations = [
        migrations.CreateModel(
            name='jumia',
            fields=[
                ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
                ('title', models.CharField(blank=True, max_length=300, null=True)),
                ('manufacturer', models.CharField(blank=True, max_length=50, null=True)),
                ('description', models.TextField()),
                ('img', models.TextField()),
                ('url', models.TextField()),
                ('sku', models.CharField(blank=True, max_length=50, null=True)),
                ('active', models.BooleanField(blank=True, null=True)),
                ('lastprice', models.CharField(blank=True, max_length=50, null=True)),
                ('jumialid', models.TextField()),
                ('rate', models.FloatField()),
            ],
            options={
                'db_table': 'jumia',
            },
        ),
    ]

```

- o 0002_auto_20210404_1340.py

```
jumia > migrations > 0002_auto_20210404_1340.py > ...
# Generated by Django 3.1.7 on 2021-04-04 11:40

from django.db import migrations, models
# Import "django.db" could not be resolved from source

class Migration(migrations.Migration):
    dependencies = [
        ('jumia', '0001_initial'),
    ]

    operations = [
        migrations.AlterField(
            model_name='jumia',
            name='manufacture',
            field=models.CharField(blank=True, max_length=500, null=True),
        ),
    ]

```

- o 0003_remove_jumia_jumiaid.py

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS 0003_remove_jumia_jumiaid.py - src - Visual Studio Code
EXPLORER jumia > migrations > 0003_remove_jumia_jumiaid.py > ...
SRC
> __dist
> vscode
> accounts
> db
> info
jumia
> __pycache__
> migrations
> __pycache__
> _init_.py
> 0001_initial.py
> 0002_auto_20210404_1340...
0003_remove_j... 1
class Migration(migrations.Migration):
    dependencies = [
        ('jumia', '0002_auto_20210404_1340'),
    ]
    operations = [
        migrations.RemoveField(
            model_name='jumia',
            name='jumiaid',
        ),
    ]

```

Ln 18, Col 1 Spaces: 4 UTF-8 LF Python Go Live

Noon:

1. Models

```

File Edit Selection View Go Run Terminal Help
models.py - src - Visual Studio Code
EXPLORER noon > models.py > ...
SRC
> __dist
> vscode
> accounts
> db
> info
noon
> __pycache__
> migrations
> _init_.py
> admin.py
> apps.py
models.py 1
class Noon(models.Model):
    title = models.CharField(max_length=300, blank=True, null=True)
    manufacturer = models.CharField(max_length=500, blank=True, null=True)
    description = models.TextField()
    img = models.TextField()
    url = models.TextField()
    sku = models.CharField(max_length=50, blank=True, null=True)
    active = models.BooleanField(blank=True, null=True)
    lastprice = models.FloatField()
    category = models.ForeignKey("products.category", verbose_name="category", related_name="noon", on_delete=models.CASCADE, default=1)
    class Meta:
        db_table = 'noon'

```

Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live

2. Admin

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows a project structure under "SRC". The "noon" folder contains "admin.py", which is currently selected and highlighted.
- Code Editor:** The main area displays the content of "admin.py".

```
1 from django.contrib import admin
Import "django.contrib" could not be resolved from source
2
3 # Register your models here.
4
```
- Status Bar:** At the bottom, it shows "In 1, Col 1" and "Spaces: 4" and "UTF-8".
- Bottom Icons:** Standard VS Code icons for file operations like Open, Save, Find, and Share.

3. Apps

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure under the 'SRC' folder. The 'noon' folder contains files like __init__.py, admin.py, apps.py (marked with a red exclamation), models.py, tests.py, views.py, and others.
- Editor (Center):** Displays the contents of 'apps.py'. The code is as follows:

```
from django.apps import AppConfig
import "django.apps" could not be resolved from source

class NoonConfig(AppConfig):
    name = 'noon'
```
- Status Bar (Bottom):** Shows the file path 'apps.py - src - Visual Studio Code', line count 'Ln 6, Col 1', spaces configuration 'Spaces: 4', encoding 'UTF-8', language 'Python', and a 'Go Live' button.

4. Tests

```
File Edit Selection View Go Run Terminal Help
EXPLORER ... tests.py 1 X
OPEN EDITORS tests.py noon > tests.py
SRC > __pycache__ tests.py
> __dist__
> vscode
> accounts
> db
> info
> jumia
> noon
> __pycache__
> migrations
> __init__.py
> admin.py
> apps.py
> models.py
> tests.py 1
> views.py
> products
> project
> setting
> souq
> static
> templates
> utils
> .gitignore
> celerybeat.pid
> commands.txt
> db.sqlite3
> .env
> .vscode
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 1 Live Share
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live 0426 P

```

5. Views

```
File Edit Selection View Go Run Terminal Help
EXPLORER ... views.py 1 X
OPEN EDITORS views.py noon > views.py
SRC > __pycache__ views.py
> __dist__
> vscode
> accounts
> db
> info
> jumia
> noon
> __pycache__
> migrations
> __init__.py
> admin.py
> apps.py
> models.py
> tests.py
> views.py 1
> products
> project
> setting
> souq
> static
> templates
> utils
> .gitignore
> celerybeat.pid
> commands.txt
> db.sqlite3
> .env
> .vscode
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 1 Live Share
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live 0427 P

```

6. Migrations

- o 0001_initial.py

The screenshot shows the Visual Studio Code interface with the following details:

- Title Bar:** 0001_initial.py - src - Visual Studio Code
- File Explorer (Left):** Shows the project structure with files like `0001_initial.py`, `migrations`, `models.py`, `views.py`, and `urls.py`.
- Code Editor (Center):** Displays the `0001_initial.py` migration file content. The code defines a `Migration` class with `initial = True`, `dependencies` (including `'products', '0001_initial'`), and `operations` (creating a `Product` model with fields: `id`, `title`, `description`, `img`, `url`, `stock`, `active`, `last_update`, and `category`, and setting its `db_table` to `'noon'`).
- Bottom Status Bar:** Shows the current file is `0001_initial.py`, the line count is 36, the column count is 13, and the status bar includes icons for Python, Go Live, and system notifications.

Products:

1. Models

The screenshot shows the Visual Studio Code interface with the Python file `models.py` open in the main editor area. The code defines several Django models: `category`, `product`, `souq`, and `priceHistory`. It also includes a `notifyme` model and various foreign key relationships between them. The code uses annotations like `max_length`, `null`, and `unique=True`. The `category` model has a `db_table` of `'category'`. The `product` model has a `ForeignKey` to `souq` with `on_delete=models.CASCADE`. The `souq` model has `Foreignkey`s to `jumia` and `noon` with `on_delete=models.CASCADE`. The `priceHistory` model has a `ForeignKey` to `souq` with `on_delete=models.CASCADE`. The `notifyme` model has fields for `username`, `souqid`, `expectedPrice`, `timeDate`, `lastPrice`, and `is_done`.

```
products > models.py -> models.py -> models.py

1  from django.db import models  import "django.db" could not be resolved from source
2
3  # Create your models here.
4  class category(models.Model):
5      sweetName=models.CharField(max_length=50, null=False, unique=True)
6
7      class Meta:
8          db_table = "category"
9
10     def __str__(self):
11         return self.sweetName
12
13 class product(models.Model):
14     souq=models.ForeignKey("souq.Souq",verbose_name="souq", related_name="souq",on_delete=models.CASCADE)
15     jumia=models.ForeignKey("jumia.Jumia",verbose_name="jumia", related_name="jumia",on_delete=models.CASCADE)
16     noon=models.ForeignKey("noon.Noon",verbose_name="noon", related_name="noon",on_delete=models.CASCADE)
17
18 class priceHistory(models.Model):
19     souq=models.ForeignKey("souq.Souq",verbose_name="souq", related_name="souqhis",on_delete=models.CASCADE)
20     timeDate=models.DateTimeField()
21     lastPrice = models.CharField(max_length=50, blank=True, null=True)
22
23
24 class notifyme(models.Model):
25     username=models.CharField(max_length=200)
26     souqid=models.CharField(max_length=200)
27     expectedPrice=models.CharField(max_length=200,null=True)
28     timeDate=models.DateTimeField(null=True)
29     lastPrice=models.CharField(max_length=200)
30     is_done=models.BooleanField(null=True)
```

2. Admin

```

File Edit Selection View Go Run Terminal Help
admin.py - src - Visual Studio Code
EXPLORER ... admin.py 1
OPEN EDITORS products > admin.py
SRC > dist vscode accounts db info jumia noon
products > __pycache__ migrations templates templatetags __init__.py admin.py 1
apps.py filter.py models.py tasks.py tests.py urls.py views.py
project setting souq static templates ...
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter 0 0 1 Live Share β
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live ⌂ 04:32 ⌂ ENG ⌂

```

```

1 from django.contrib import admin
2 from souq.models import Souq
3 from .models import category
4
5 admin.site.register(Souq)
6 admin.site.register(category)
7

```

3. Apps

```

File Edit Selection View Go Run Terminal Help
apps.py - src - Visual Studio Code
EXPLORER ... apps.py 1
OPEN EDITORS products > apps.py
SRC > dist vscode accounts db info jumia noon
products > __pycache__ migrations templates templatetags __init__.py admin.py apps.py 1
apps.py filter.py models.py tasks.py tests.py urls.py views.py
project setting souq static templates ...
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter 0 0 1 Live Share β
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live ⌂ 04:33 ⌂ ENG ⌂

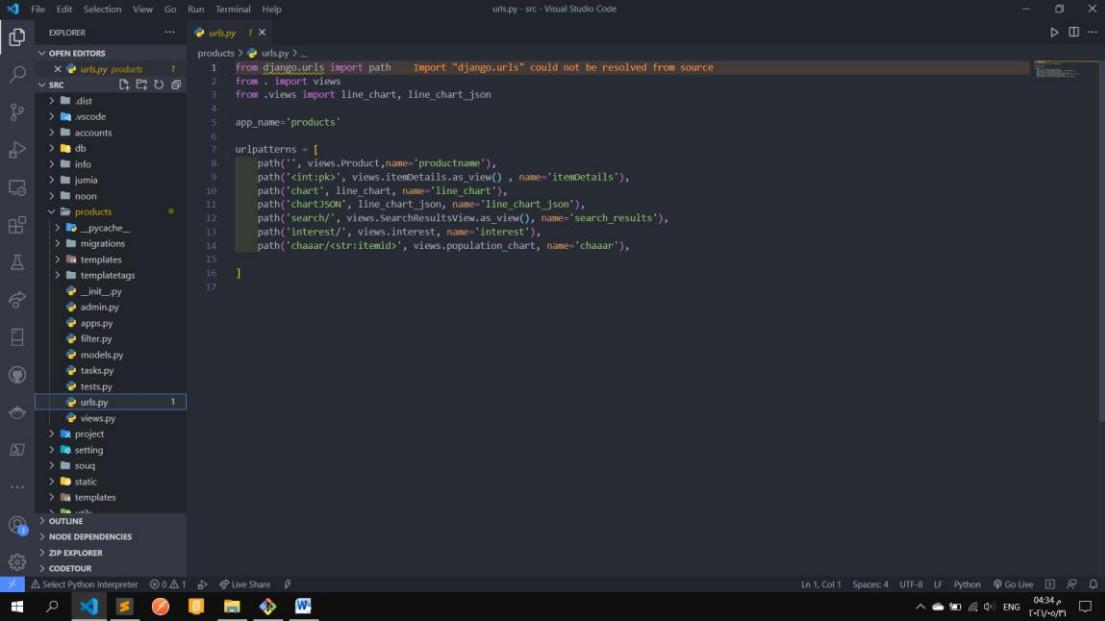
```

```

1 from django.apps import AppConfig
2
3 class ProductsConfig(AppConfig):
4     name = 'products'
5
6

```

4.Urls



```

File Edit Selection View Go Run Terminal Help
EXPLORER ... urls.py 1 X
OPEN EDITORS products > urls.py > ...
SRC > dist > vscode > accounts > db > info > jumia > noon > products > __pycache__ > migrations > templates > templatetags > __init__.py > admin.py > apps.py > filter.py > models.py > tasks.py > tests.py > urls.py > views.py > project > setting > souq > static > templates > ...
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter ⚙️ 0 ⚙️ 1 🔍 Live Share ⚙️
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live ⚙️ 🔍

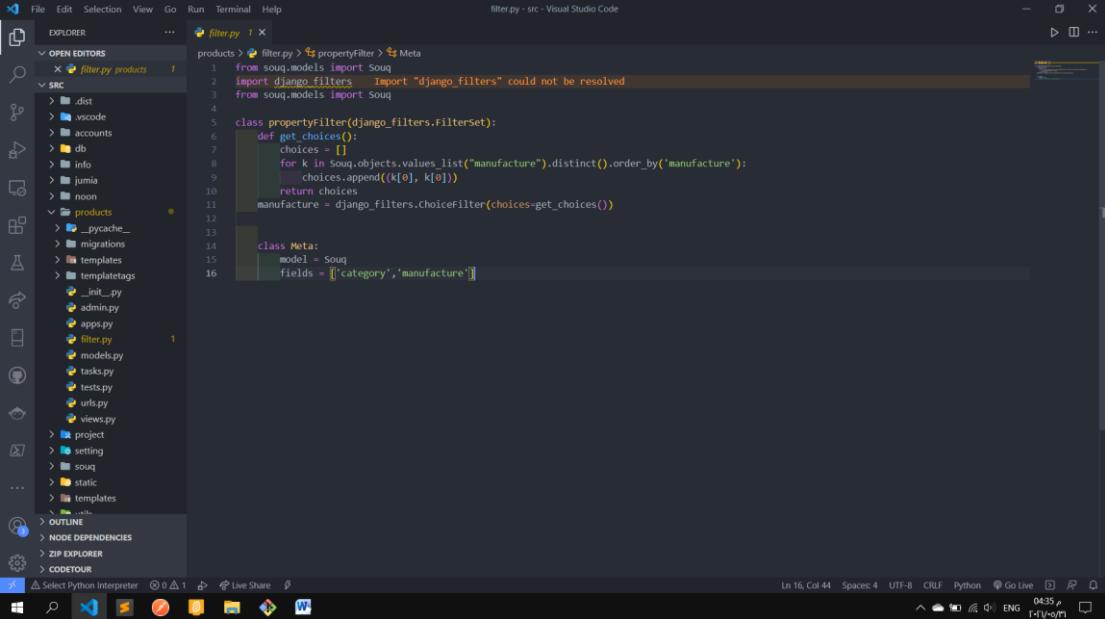
```

```

1 from django.urls import path    Import "django.urls" could not be resolved from source
2 from . import views
3 from .views import line_chart, line_chart_json
4
5 app_name='products'
6
7 urlpatterns = [
8     path('', views.Product,name='productname'),
9     path('<int:pk>', views.itemDetails.as_view(), name='itemDetails'),
10    path('chart', line_chart, name='line_chart'),
11    path('chartJSON', line_chart_json, name='line_chart_json'),
12    path('search', views.SearchResultsView.as_view(), name='search_results'),
13    path('interest', views.Interest, name='interest'),
14    path('chaaan/<str:itemid>', views.PopulationChart, name='chaaan'),
15]
16
17

```

5. Filters



```

File Edit Selection View Go Run Terminal Help
EXPLORER ... filter.py 1 X
OPEN EDITORS products > filter.py > __propertyFilter > Meta
SRC > dist > vscode > accounts > db > info > jumia > noon > products > __pycache__ > migrations > templates > ...
templatetags > __init__.py > admin.py > apps.py > filter.py > models.py > tasks.py > tests.py > urls.py > views.py > project > setting > souq > static > templates > ...
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter ⚙️ 0 ⚙️ 1 🔍 Live Share ⚙️
Ln 16, Col 44 Spaces: 4 UTF-8 CR LF Python Go Live ⚙️ 🔍

```

```

1 from souq.models import Souq
2 import django_filters    Import "django_filters" could not be resolved
3 from souq.models import Souq
4
5 class __propertyFilter(django_filters.FilterSet):
6     def get_choices():
7         choices = []
8         for k in Souq.objects.values_list("manufacture").distinct().order_by('manufacture'):
9             choices.append((k[0], k[0]))
10            return choices
11
12        manufacture = django_filters.ChoiceFilter(choices=get_choices())
13
14
15    class Meta:
16        model = Souq
17        fields = ['category', 'manufacture']

```

6. Tests

```

File Edit Selection View Go Run Terminal Help
EXPLORER tests.py 1
products > tests.py
1 from django.test import TestCase Import "django.test" could not be resolved from source
2
3 # Create your tests here.
4
SRC
> dist
> vscode
> accounts
> db
> info
> jumia
> noon
> products
> __pycache__
> migrations
> templates
> templatetags
> __init__.py
> admin.py
> apps.py
> filter.py
> models.py
> tasks.py
> tests.py 1
> urls.py
> views.py
> project
> setting
> souq
> static
> templates
> ...
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter ⚙️ 0 ⚙️ 🔍 Live Share ⚙️
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live ⚙️ 🔍

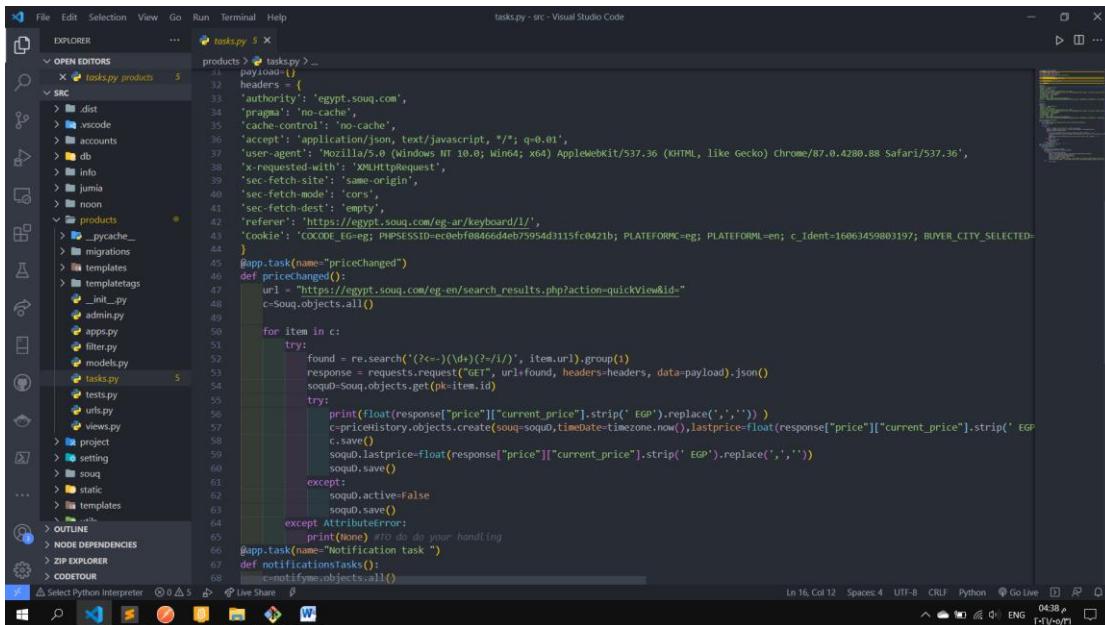
```

7. Tasks

```

File Edit Selection View Go Run Terminal Help
EXPLORER tasks.py 5
products > tasks.py
1
2 from datetime import timezone Import "celery" could not be resolved
3 from accounts.models import Profile Import "accounts.models" could not be resolved
4 from project.celery import app Import "project.celery" could not be resolved
5 from products.models import notifyme, priceHistory Import "products.models" could not be resolved
6 from souq.models import souq Import "souq" could not be resolved
7 from notifications.signals import notify Import "notifications.signals" could not be resolved
8 from django.contrib.auth.models import User Import "django.contrib.auth.models" could not be resolved from source
9
10 from django.core.mail import send_mail Import "django.core.mail" could not be resolved from source
11
12 import requests Import "requests" could not be resolved from source
13
14
15 payload={}
16 headers={}
17 'authority': 'egypt.souq.com',
18 'pragma': 'no-cache',
19 'cache-control': 'no-cache',
20 'accept': 'application/json, text/javascript, */*; q=0.01',
21 'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4288.88 Safari/537.36',
22 'x-requested-with': 'XMLHttpRequest',
23 'sec-fetch-mode': 'cors',
24 'sec-fetch-site': 'same-origin',
25 'sec-fetch-mode': 'cors',
26 'sec-fetch-dest': 'empty',
27 'referer': 'https://egypt.souq.com/eg-ar/keyboard/1/',
28 'cookie': 'CODE_EG=eg; PHPSESSID=e0ebf88466d4eb75954d3115fc0421b; PLATEFORM=eg; PLATEFORM=en; c_Ident=16063459803197; BUYER_CITY_SELECTED=',
29
30 import re
31 payload={}
32 headers={}
33 'authority': 'egypt.souq.com',
34 'pragma': 'no-cache',
35 'cache-control': 'no-cache',
36 'accept': 'application/json, text/javascript, */*; q=0.01',
37 'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4288.88 Safari/537.36',
38 'x-requested-with': 'XMLHttpRequest'.
Ln 16, Col 12 Spaces: 4 UTF-8 CRLF Python Go Live ⚙️ 🔍

```



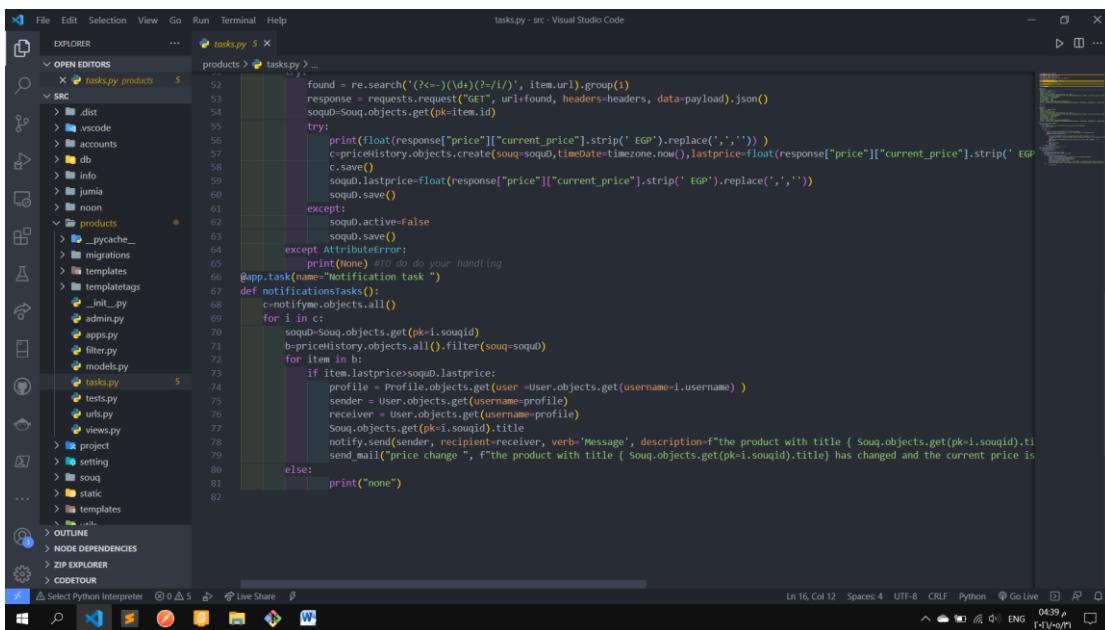
```

File Edit Selection View Go Run Terminal Help tasks.py - src - Visual Studio Code

OPEN EDITORS tasks.py 5
SRC
products > tasks.py > ...
payload=( {
    'headers': {
        'authority': 'egypt.souq.com',
        'cache-control': 'no-cache',
        'cache-control': 'no-cache',
        'accept': 'application/json, text/javascript, */*; q=0.01',
        'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Safari/537.36',
        'x-requested-with': 'XMLHttpRequest',
        'sec-fetch-site': 'same-origin',
        'sec-fetch-mode': 'cors',
        'sec-fetch	dest': 'empty',
        'referer': 'https://egypt.souq.com/eg-en/keyboard/1/',
        'Cookie': 'CCODE_Eg=eg; PHPSESSID=ec0ebf08466d4eb7=954d3115fc0421b; PLATEFORM=eg; PLATEFORM=en; c_Identifier=16063459803197; BUYER_CITY_SELECTED=;
    }
})
@app.task(name="pricechanged")
def pricechanged():
    url = "https://egypt.souq.com/eg-en/search_results.php?action=quickView&id="
    cSouq.objects.all()

    for item in c:
        try:
            found = re.search('((?=&-)(\d+)(?=1/))', item.url).group(1)
            response = requests.request("GET", url+found, headers=headers, data=payload).json()
            souq=Souq.objects.get(pk=item.id)
            try:
                print(float(response["price"]["current_price"].strip(" EGP").replace(",","")))
                c=pricehistory.objects.create(souq=souq,timeDate=timezone.now(),lastprice=float(response["price"]["current_price"].strip(" EGP").replace(",","")))
                c.save()
                souq.lastprice=float(response["price"]["current_price"].strip(" EGP").replace(",",""))
                souq.save()
            except:
                souq.active=False
                souq.save()
            except AttributeError:
                print("none") #do do your handling
        except:
            print("none") #do do your handling
    @app.task(name="Notification task ")
    def notificationsTasks():
        c=notifyme.objects.all()

```



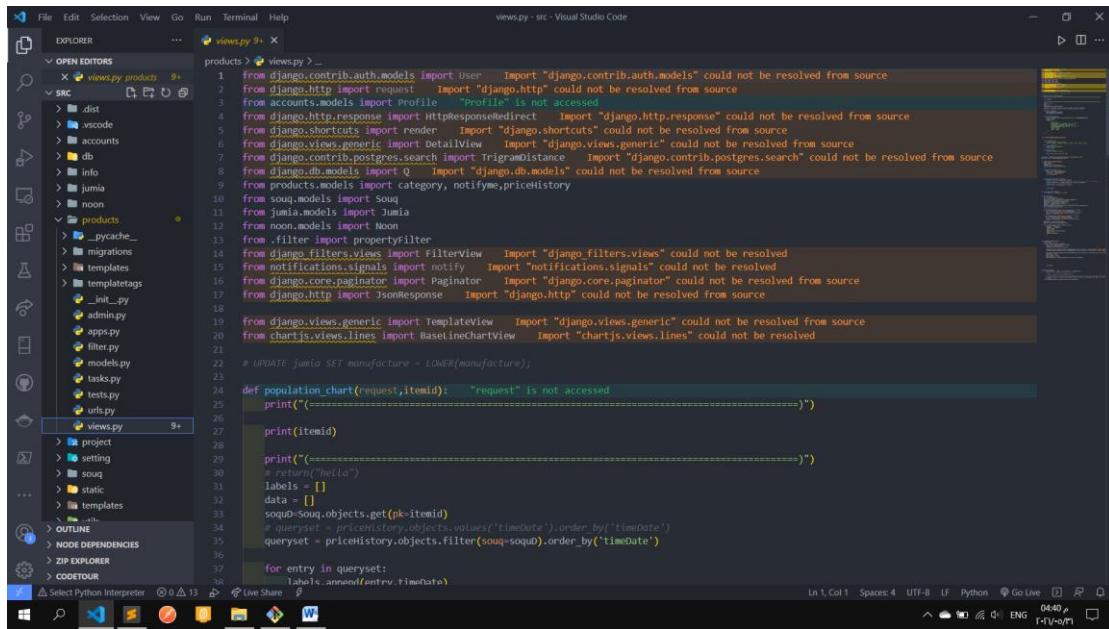
```

File Edit Selection View Go Run Terminal Help tasks.py - src - Visual Studio Code

OPEN EDITORS tasks.py 5
SRC
products > tasks.py > ...
found = re.search('((?=&-)(\d+)(?=1/))', item.url).group(1)
response = requests.request("GET", url+found, headers=headers, data=payload).json()
souq=Souq.objects.get(pk=item.id)
try:
    print(float(response["price"]["current_price"].strip(" EGP").replace(",","")))
    c=pricehistory.objects.create(souq=souq,timeDate=timezone.now(),lastprice=float(response["price"]["current_price"].strip(" EGP").replace(",","")))
    c.save()
    souq.lastprice=float(response["price"]["current_price"].strip(" EGP").replace(",",""))
    souq.save()
except:
    souq.active=False
    souq.save()
except AttributeError:
    print("none") #do do your handling
@app.task(name="Notification task ")
def notificationsTasks():
    c=notifyme.objects.all()
    for i in c:
        souq=Souq.objects.get(pk=i.souqid)
        b=pricehistory.objects.all().filter(souq=souq)
        for item in b:
            if item.lastprice>souq.lastprice:
                profile = Profile.objects.get(user__username=i.username)
                sender = User.objects.get(username=profile)
                receiver = User.objects.get(username=profile)
                Souq.objects.get(pk=i.souqid).title
                notify.send(sender, recipient=receiver, verb='Message', description=f'the product with title { Souq.objects.get(pk=i.souqid).title } has changed and the current price is')
                send_mail("price change ", f'the product with title { Souq.objects.get(pk=i.souqid).title } has changed and the current price is'
else:
    print("none")

```

8. Views

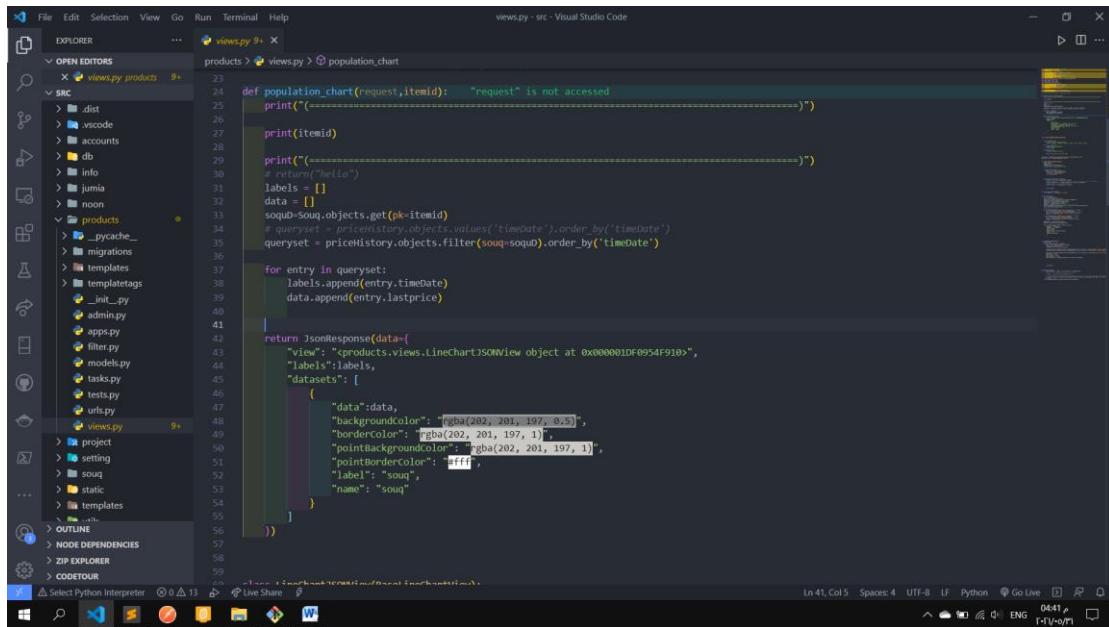


The screenshot shows the Visual Studio Code interface with the file `views.py` open. The code editor displays several syntax errors, primarily due to missing imports for Django components like `User`, `Profile`, `HttpResponse`, `HttpRedirect`, `Http404`, `TemplateView`, and `JsonResponse`. The code itself contains a function `population_chart` that prints item ID and a list of entries from a queryset.

```

File Edit Selection View Go Run Terminal Help
products > views.py 9+ x
OPEN EDITORS
products > views.py > ...
1  from django.contrib.auth.models import User    Import "django.contrib.auth.models" could not be resolved from source
2  from django.http import request   Import "django.http" could not be resolved from source
3  from accounts.models import souq    Import "accounts.models" could not be resolved from source
4  from django.shortcuts import render   Import "django.shortcuts" could not be resolved from source
5  from django.views.generic import DetailView   Import "django.views.generic" could not be resolved from source
6  from django.contrib.postgres.search import TrigramDistance   Import "django.contrib.postgres.search" could not be resolved from source
7  from django.db.models import Q    Import "django.db.models" could not be resolved from source
8  from souq.models import Souq
9  from jumia.models import Jumia
10 from products.models import Nou
11 from notifications.signals import notify
12 from django.core.paginator import Paginator   Import "django.core.paginator" could not be resolved from source
13 from django.http import JsonResponse   Import "django.http" could not be resolved from source
14 from django_filters.views import FilterView   Import "django_filters.views" could not be resolved
15 from notifications.signals import notify
16 from django.core.paginator import Paginator   Import "django.core.paginator" could not be resolved from source
17 from django.http import JsonResponse   Import "django.http" could not be resolved from source
18
19 from django.views.generic import TemplateView   Import "django.views.generic" could not be resolved from source
20 from chartjs.views.lines import BaselineChartView   Import "chartjs.views.lines" could not be resolved
21
22 # UPDATE jumia SET manufacture = LOWER(manufacture)
23
24 def population_chart(request,itemid):  "request" is not accessed
25     print("=====")
26
27     print(itemid)
28
29     # return("Hello")
30     labels = []
31     data = []
32     souq=Souq.objects.get(pk=itemid)
33
34     # queryset = priceHistory.objects.values('timeDate').order_by('timeDate')
35     queryset = priceHistory.objects.filter(souq=souq).order_by('timeDate')
36
37     for entry in queryset:
38         labels.append(entry.timeDate)
39         data.append(entry.lastPrice)
40
41     return JsonResponse(data=[{
42         "view": "<products.views.LineChartJSONView object at 0x000001DF0954F910>",
43         "labels":labels,
44         "datasets": [
45             {
46                 "data":data,
47                 "backgroundColor": "#gba(202, 201, 197, 0.5)",
48                 "borderColor": "#gba(202, 201, 197, 1)",
49                 "pointBackgroundColor": "#gba(202, 201, 197, 1)",
50                 "pointBorderColor": "#ffff",
51                 "label": "souq",
52                 "name": "souq"
53             }
54         ]
55     }])
56
57
58
59
59

```



This screenshot shows the same Visual Studio Code session with the code editor focused on the `population_chart` function. The function now includes a detailed JSON response structure, indicating it will return a line chart view with specific data and styling parameters. The code editor's status bar shows the current line (41) and column (5).

```

File Edit Selection View Go Run Terminal Help
products > views.py 9+ x
OPEN EDITORS
products > views.py > population_chart
23
24 def population_chart(request,itemid):  "request" is not accessed
25     print("=====")
26
27     print(itemid)
28
29     # return("Hello")
30     labels = []
31     data = []
32     souq=Souq.objects.get(pk=itemid)
33
34     # queryset = priceHistory.objects.values('timeDate').order_by('timeDate')
35     queryset = priceHistory.objects.filter(souq=souq).order_by('timeDate')
36
37     for entry in queryset:
38         labels.append(entry.timeDate)
39         data.append(entry.lastPrice)
40
41     return JsonResponse(data=[{
42         "view": "<products.views.LineChartJSONView object at 0x000001DF0954F910>",
43         "labels":labels,
44         "datasets": [
45             {
46                 "data":data,
47                 "backgroundColor": "#gba(202, 201, 197, 0.5)",
48                 "borderColor": "#gba(202, 201, 197, 1)",
49                 "pointBackgroundColor": "#gba(202, 201, 197, 1)",
50                 "pointBorderColor": "#ffff",
51                 "label": "souq",
52                 "name": "souq"
53             }
54         ]
55     }])
56
57
58
59
59

```

```

products > views.py > population_chart

class LineChartJSONView(BaseLinechartView):
    def get_labels(self):
        """Return 7 labels for the x-axis"""
        return ["January", "February", "March", "April", "May", "June", "July"]

    def get_providers(self):
        """Return names of datasets."""
        return ["souq"]

    def get_data(self):
        """Return 3 datasets to plot."""
        return [[75, 44, 92, 11, 44, 95, 35]]


line_chart = TemplateView.as_view(template_name='souq/souq_detail.html')
line_chart_json = LineChartJSONView.as_view()

class SearchResultsView(FilterView):
    model = Souq
    paginate_by = 50
    filterset_class = propertyFilter
    template_name = 'product/souq_list.html'

    def get_queryset(self): # new
        query = self.request.GET.get('q', '')
        object_lists = Souq.objects.filter(
            Q(title__icontains=query)
        )
        return object_lists

    def get_context_data(self, **kwargs):
        ...

```

```

products > views.py > population_chart

def get_context_data(self, **kwargs):
    context = super().get_context_data(**kwargs)
    context['brands'] = Souq.objects.values('manufacture').distinct().order_by('manufacture')
    context['categories'] = category.objects.all().order_by('sweetName')
    context['count'] = Souq.objects.all().count()
    return context

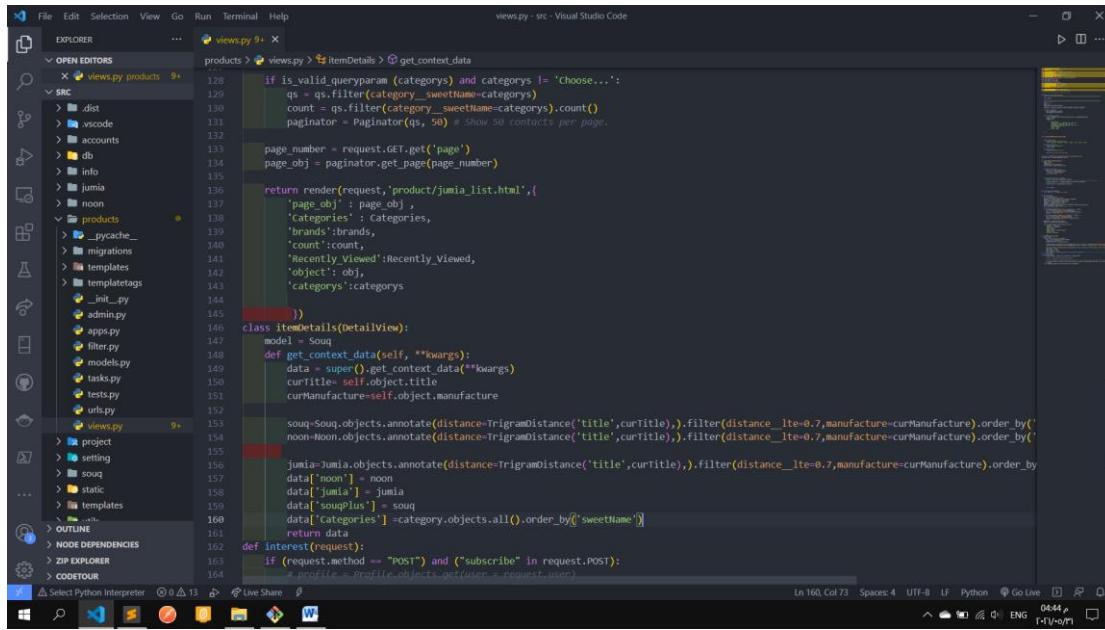
def is_valid_queryparam(param):
    return param != '' and param is not None

def Product(request):
    qs = Souq.objects.all()
    count = Souq.objects.all().count()
    Categories = category.objects.all().order_by('sweetName')
    Recently_Viewed = Souq.objects.filter()[:50]
    manufacture = request.GET.get('manufacture')
    categorys = request.GET.get('category')
    paginator = Paginator(qs, 50) # Show 50 contacts per page.
    brands= Souq.objects.values('manufacture').distinct().order_by('manufacture')
    obj = Souq.objects.values('rate')
    # print("*****")
    # print(Recently_Viewed)
    if is_valid_queryparam (manufacture) and manufacture != 'choose...':
        qs = qs.filter(manufacture__icontains=manufacture)
        count = qs.filter(manufacture__icontains=manufacture).count()
        paginator = Paginator(qs, 50) # Show 50 contacts per page.

    if is_valid_queryparam (categorys) and categorys != 'Choose...':
        qs = qs.filter(category_sweetName__contains=categorys)
        count = qs.filter(category_sweetName__contains=categorys).count()
        paginator = Paginator(qs, 50) # Show 50 contacts per page.

    ...

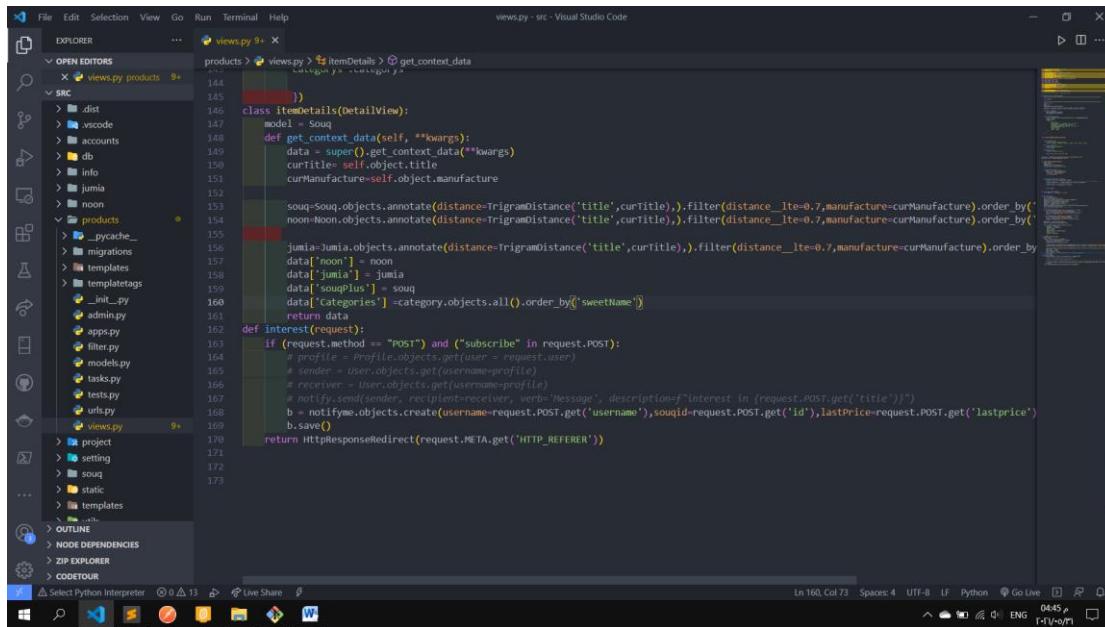
```



```

products > views.py > ItemDetails > get_context_data
128     if is_valid_queryparam(categories) and categories != 'Choose...':
129         qs = qs.filter(category__sweetname=categories)
130         count = qs.filter(category__sweetname=categories).count()
131         paginator = Paginator(qs, 50) # show 50 contacts per page.
132
133         page_number = request.GET.get('page')
134         page_obj = paginator.get_page(page_number)
135
136         return render(request,'product/jumia_list.html',{
137             'page_obj': page_obj ,
138             'Categories': Categories,
139             'brands':brands,
140             'count':count,
141             'Recently_Viewed':Recently_Viewed,
142             'object': obj,
143             'categories':categories
144         })
145     class itemDetails(detailView):
146         model = Souq
147         def get_context_data(self, **kwargs):
148             data = super().get_context_data(**kwargs)
149             curTitle= self.object.title
150             curManufacture=self.object.manufacture
151
152             souq=Souq.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
153                 '-distance')
154             noon=Noon.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
155                 '-distance')
156             jumia=Jumia.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
157                 '-distance')
158             data['noon'] = noon
159             data['jumia'] = jumia
160             data['souqplus'] = souq
161             data['Categories'] = category.objects.all().order_by('sweetName')
162             return data
163
164     def interest(request):
165         if (request.method == "POST") and ("subscribe" in request.POST):
166             # profile = Profile.objects.get(user = request.user)
167             # sender = User.objects.get(username=profile)
168             # receiver = User.objects.get(username=profile)
169             # notify = Notify.objects.create(sender=sender, recipient=receiver, verb='message', description=f"interest in {request.POST.get('title')}")
170             b = Notify.objects.create(username=request.POST.get('username'), souqid=request.POST.get('id'), lastPrice=request.POST.get('lastprice'))
171             b.save()
172
173     return HttpResponseRedirect(request.META.get('HTTP_REFERER'))

```



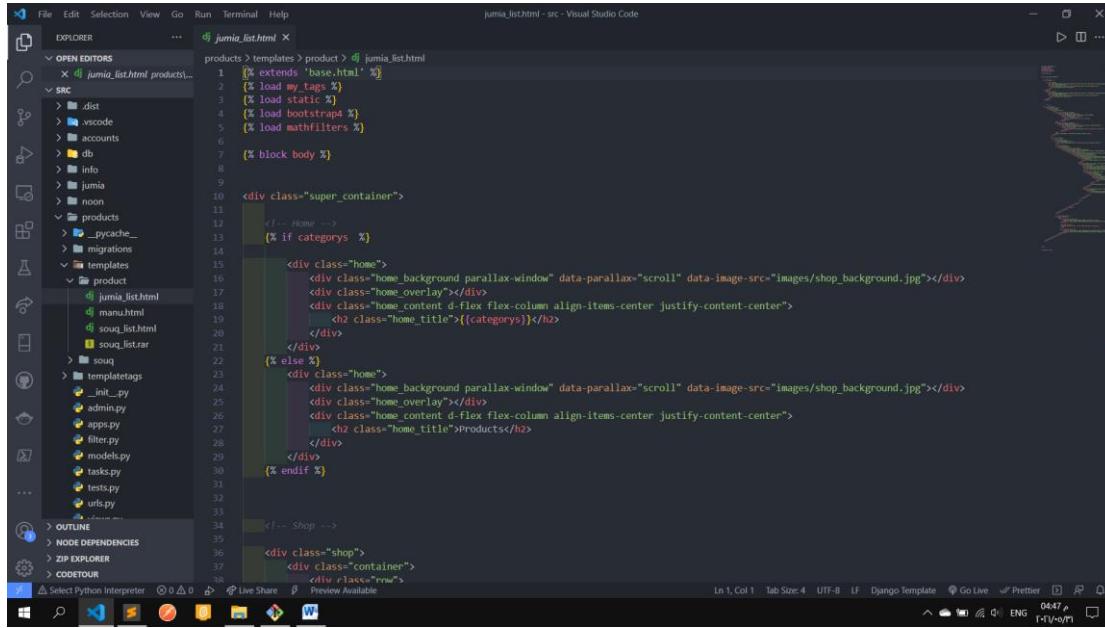
```

products > views.py > ItemDetails > get_context_data
144
145     class itemDetails(detailView):
146         model = Souq
147         def get_context_data(self, **kwargs):
148             data = super().get_context_data(**kwargs)
149             curTitle= self.object.title
150             curManufacture=self.object.manufacture
151
152             souq=Souq.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
153                 '-distance')
154             noon=Noon.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
155                 '-distance')
156             jumia=Jumia.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
157                 '-distance')
158             data['noon'] = noon
159             data['jumia'] = jumia
160             data['souqplus'] = souq
161             data['Categories'] = category.objects.all().order_by('sweetName')
162             return data
163
164     def interest(request):
165         if (request.method == "POST") and ("subscribe" in request.POST):
166             # profile = Profile.objects.get(user = request.user)
167             # sender = User.objects.get(username=profile)
168             # receiver = User.objects.get(username=profile)
169             # notify = Notify.objects.create(sender=sender, recipient=receiver, verb='message', description=f"interest in {request.POST.get('title')}")
170             b = Notify.objects.create(username=request.POST.get('username'), souqid=request.POST.get('id'), lastPrice=request.POST.get('lastprice'))
171             b.save()
172
173     return HttpResponseRedirect(request.META.get('HTTP_REFERER'))

```

9. Template

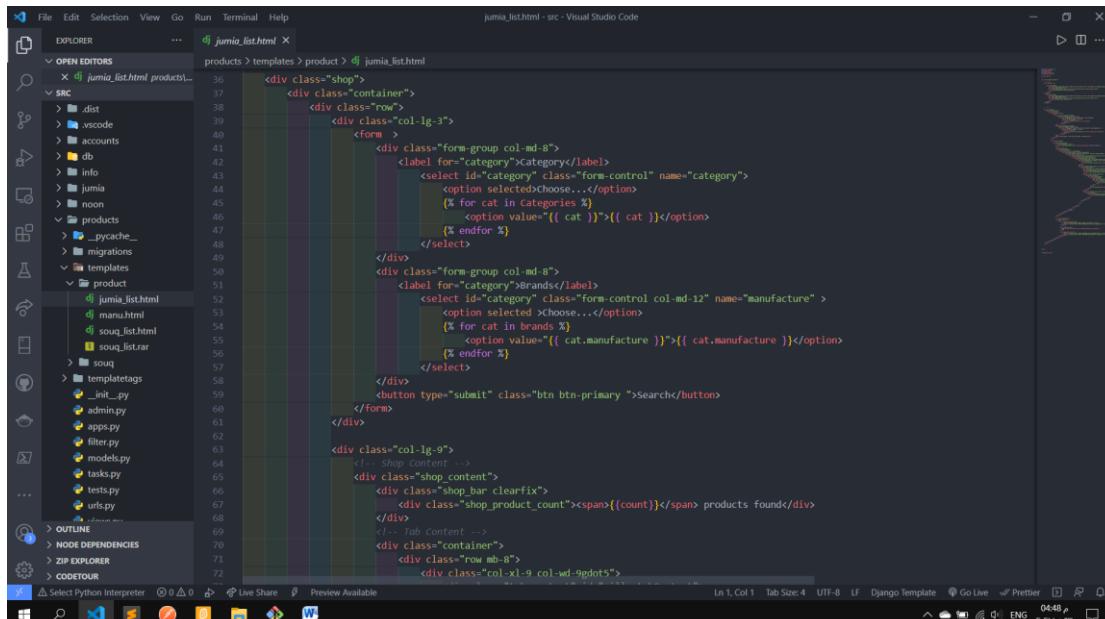
- o Product/Jumia_list.html



```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS jumia_list.html
SRC
products > templates > product > jumia_list.html
1  [% extends 'base.html' %]
2  [% load my_tags %]
3  [% load static %]
4  [% load bootstrap4 %]
5  [% load mathfilters %]
6
7  [% block body %]
8
9
10 <div class="super_container">
11   <!-- Home -->
12   [% if categories %]
13     <div class="home">
14       <div class="home_background parallax-window" data-parallax="scroll" data-image-src="images/shop_background.jpg"></div>
15       <div class="home_overlay"></div>
16       <div class="home_content d-flex flex-column align-items-center justify-content-center">
17         <h2 class="home_title">{{categories}}</h2>
18       </div>
19     </div>
20   [% else %]
21     <div class="home">
22       <div class="home_background parallax-window" data-parallax="scroll" data-image-src="images/shop_background.jpg"></div>
23       <div class="home_overlay"></div>
24       <div class="home_content d-flex flex-column align-items-center justify-content-center">
25         <h2 class="home_title">Products</h2>
26       </div>
27     </div>
28   [% endif %]
29
30   <!-- Shop -->
31   <div class="shop">
32     <div class="container">
33       <div class="row">
34         <div class="col-lg-3">
35           <form>
36             <div class="form-group col-md-8">
37               <label for="category">Category:</label>
38               <select id="category" class="form-control" name="category">
39                 <option selected="selected" value="choose..."></option>
40                 [% for cat in Categories %]
41                   <option value="{{ cat }}">{{ cat }}</option>
42                 [% endfor %]
43               </select>
44             </div>
45             <div class="form-group col-md-8">
46               <label for="category">Brands:</label>
47               <select id="category" class="form-control col-md-12" name="manufacture">
48                 <option selected="selected" value="choose..."></option>
49                 [% for cat in brands %]
50                   <option value="{{ cat.manufacture }}">{ { cat.manufacture } }</option>
51                 [% endfor %]
52               </select>
53             </div>
54             <button type="submit" class="btn btn-primary ">Search</button>
55           </form>
56         </div>
57       <div class="col-lg-9">
58         <!-- Shop Content -->
59         <div class="shop_content">
60           <div class="shop_bar clearfix">
61             <div class="shop_product_count"><span>{{count}}</span> products found</div>
62           </div>
63         </div>
64       <!-- Tab Content -->
65       <div class="container">
66         <div class="row mb-8">
67           <div class="col-xl-9 col-wd-9dots">
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File Edit Selection View Go Run Terminal Help
OPEN EDITORS jumia_list.html
SRC
products > templates > product > jumia_list.html
36   <div class="shop">
37     <div class="container">
38       <div class="row">
39         <div class="col-lg-3">
40           <form>
41             <div class="form-group col-md-8">
42               <label for="category">Category:</label>
43               <select id="category" class="form-control" name="category">
44                 <option selected="selected" value="choose..."></option>
45                 [% for cat in Categories %]
46                   <option value="{{ cat }}">{{ cat }}</option>
47                 [% endfor %]
48               </select>
49             </div>
50             <div class="form-group col-md-8">
51               <label for="category">Brands:</label>
52               <select id="category" class="form-control col-md-12" name="manufacture">
53                 <option selected="selected" value="choose..."></option>
54                 [% for cat in brands %]
55                   <option value="{{ cat.manufacture }}">{ { cat.manufacture } }</option>
56                 [% endfor %]
57               </select>
58             </div>
59             <button type="submit" class="btn btn-primary ">Search</button>
60           </form>
61         </div>
62       <div class="col-lg-9">
63         <!-- Shop Content -->
64         <div class="shop_content">
65           <div class="shop_bar clearfix">
66             <div class="shop_product_count"><span>{{count}}</span> products found</div>
67           </div>
68         </div>
69       <!-- Tab Content -->
70       <div class="container">
71         <div class="row mb-8">
72           <div class="col-xl-9 col-wd-9dots">
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```

The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** jumia_list.html - src - Visual Studio Code
- Explorer Bar:** Shows the project structure:
 - OPEN EDITORS: jumia_list.html
 - SRC
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - __pycache__
 - migrations
 - templates
 - product
 - jumia_list.html
 - manru.html
 - souq_list.html
 - souq_liststar
 - souq
 - templatetags
 - __init__.py
 - admin.py
 - apps.py
 - filter.py
 - models.py
 - tasks.py
 - tests.py
 - urls.py
- Search Bar:** jumia_list.html
- Code Editor:** Displays the Django template code for 'jumia_list.html'. The code includes HTML structure, CSS classes like 'product-item', and Django template tags like '{% for %}' and '{% if %}'. A color-coded syntax highlighter is visible.
- Bottom Status Bar:** Line 100, Col 93 | Tab Size: 4 | UFT-8 | LF | Django Template | Go Live | prettier | 0450 | ENG | [x] (v0.107)
- Bottom Icons:** Select Python Interpreter, Git, Search, Share, Live Share, Preview Available.

```

<!-- Shop Page Navigation -->
<div class="pagination">
<span>
    {% if page_obj.has_previous %}
        <a href="{% param_replace request page=1 %}">first</a>
        <a href="{% param_replace request page=page_obj.previous_page_number %}">previous</a>
    {% endif %}
</span>
<span class="current">
    Page {{ page_obj.number }} of {{ page_obj.paginator.num_pages }}.
</span>
<span>
    {% if page_obj.has_next %}
        <a href="{% param_replace request page=page_obj.next_page_number %}">next</a>
        <a href="{% param_replace request page=page_obj.paginator.num_pages %}">last &raquo;</a>
    {% endif %}
</span>
</div>
</div>
<% endblock body %>

```

- Product/manu.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form>
        <div class="form-group col-md-8" style="width: auto;">
            <label for="category">Category</label>
            <select id="category" class="form-control" name="category" >
                <option selected>Choose...</option>
                {% for cat in categories %}
                    <option value="{{ cat }}>{{ cat }}</option>
                {% endfor %}
            </select>
        </div>
        <div class="form-group col-md-8">
            <label for="category">Brands</label>
            <select id="category" class="form-control col-md-12" name="manufacture" >
                <option selected>Choose...</option>
                {% for cat in brands %}
                    <option value="{{ cat.manufacture }}>{{ cat.manufacture }}</option>
                {% endfor %}
            </select>
        </div>
        <button type="submit" class="btn btn-primary">Search</button>
    </form>
</body>
</html>

```

- Product/Souq_list.html

```

File Edit Selection View Go Run Terminal Help
EXPLORER ... souq_list.html
OPEN EDITORS products > templates > product > souq_list.html
SRC
> .dist
> vscode
> accounts
> db
> info
> jumia
> noon
> products
> __pycache__
> migrations
> templates
> product
  dj_jumia_list.html
  dj_manu.html
  dj_souq_list.html
  souq_list.rar
> souq
> templatetags
  __init__.py
  admin.py
  apps.py
  filter.py
  models.py
  tasks.py
  tests.py
  urls.py
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 0 Live Share ⚡ Preview Available Ln 1, Col 1 Tab Size: 4 UTF-8 CR LF Django Template Go Live Prettier 0453 ⌂ ENG ⓘ 0/0 M

```

```

<% extends 'base.html' %>
<% load my_tags %>
<% load static %>
<% load bootstrap4 %>
<% load mafilters %>
<% block body %>
<div class="super_container">
<!-- Home -->
<% if cate %>
<div class="home">
<div class="home_background parallax-window" data-parallax="scroll" data-image-src="images/shop_background.jpg"></div>
<div class="home_content d-flex flex-column align-items-center justify-content-center">
<h2 class="home_title"><{cate}></h2>
</div>
<% else %>
<div class="home">
<div class="home_background parallax-window" data-parallax="scroll" data-image-src="images/shop_background.jpg"></div>
<div class="home_content d-flex flex-column align-items-center justify-content-center">
<h2 class="home_title">Products</h2>
</div>
<% endif %>
<!-- Shop -->
<div class="shop">
<div class="container">
<div class="row">
<div class="col-lg-3">
<form >
<% bootstrap_form filter_form %>
<% buttons %>
<div style="display: flex; justify-content: center; align-items: center;">
<button type="submit" class="btn btn-primary" style="width: 50%;">Search</button>
</div>
</form>
</div>
</div>
</div>
<% endblock %>

```

```

File Edit Selection View Go Run Terminal Help
EXPLORER ... souq_list.html
OPEN EDITORS products > templates > product > souq_list.html
SRC
> .dist
> vscode
> accounts
> db
> info
> jumia
> noon
> products
> __pycache__
> migrations
> templates
> product
  dj_jumia_list.html
  dj_manu.html
  dj_souq_list.html
  souq_list.rar
> souq
> templatetags
  __init__.py
  admin.py
  apps.py
  filter.py
  models.py
  tasks.py
  tests.py
  urls.py
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 0 Live Share ⚡ Preview Available Ln 1, Col 1 Tab Size: 4 UTF-8 CR LF Django Template Go Live Prettier 0454 ⌂ ENG ⓘ 0/0 M

```

```

<% extends 'base.html' %>
<% load my_tags %>
<% load static %>
<% load bootstrap4 %>
<% load mafilters %>
<% block body %>
<div class="shop">
<div class="container">
<div class="row">
<div class="col-lg-3">
<form >
<% bootstrap_form filter_form %>
<% buttons %>
</form>
</div>
<div class="col-lg-9">
<!-- Shop Content -->
<div class="shop_content">
<div class="shop_bar clearfix">
<div class="shop_product_count"><span>{{count}}</span> products found</div>
</div>
<div class="container">
<div class="row mb-8">
<div class="col-12 col-md-9 col-wd-9gdot5">
<!-- Tab Content -->
<div class="tab-content" id="pills-tabcontent">
<div class="tab-pane fade pt-2 show active" id="pills-three-example1" role="tabpanel" aria-labelledby="pills-example1-label">
<% for product in object_list %>
<ul class="d-block list-unstyled products-group product-list-view">
<li class="product-item remove-divider">
<div class="product-item_outer w-100">
<div class="product-item_inner remove-product-hover py-4 row">
<div class="product-item_header col-6 col-md-4">
<div class="mb-2">

```

```

products > templates > product > souq_list.html
58   </div> <!-- tab-content -->
59   <div class="tab-content" id="pills-tabContent">
60     <div class="tab-pane fade pt-2 show active" id="pills-three-example1" role="tabpanel" aria-labelledby="pills-three-example1-tab" data-target="#pills-three-example1">
61       [% for product in object_list %]
62         <ul class="list-unstyled products-group product-list-view">
63           <li class="product-item remove-divider">
64             <div class="product-item_outer w-100">
65               <div class="product-item_inner remove-product-hover py-4 row">
66                 <div class="mb-2">
67                   <a href="/product/{{product.id}}" class="d-block text-center">
68                 </div>
69               <div class="product-item_body col-6 col-md-5">
70                 <div class="pr-lg-10">
71                   <a href="/product/{{product.id}}" class="font-size-12 text-gray-5">{{product.category}}
72                   <div class="mb-2 product-item_title">{{product.title}}
```

```

products > templates > product > souq_list.html
85   </div> <!-- tab-content -->
86   <div class="tab-content" id="pills-tabContent">
87     <div class="tab-pane fade pt-2 show active" id="pills-three-example1" role="tabpanel" aria-labelledby="pills-three-example1-tab" data-target="#pills-three-example1">
88       [% for product in object_list %]
89         <ul class="list-unstyled products-group product-list-view">
90           <li class="product-item remove-divider">
91             <div class="product-item_outer w-100">
92               <div class="product-item_inner remove-product-hover py-4 row">
93                 <div class="mb-2">
94                   <a href="/product/{{product.id}}" class="d-block text-center">
95                 </div>
96               <div class="product-item_body col-6 col-md-5">
97                 <div class="pr-lg-10">
98                   <a href="/product/{{product.id}}" class="font-size-12 text-gray-5">{{product.category}}
99                   <div class="mb-2 product-item_title">{{product.title}}
```

- Souq/Souq_detail.html

APC

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows a tree view of a Django project structure. The 'src' folder contains 'dist', 'vscodex', 'accounts', 'db', 'info', 'jumia', 'noon', 'products' (which has 'pycache', 'migrations', 'templates', 'product', and 'souq'), and 'souq' (which has 'souq_list.html' and 'souq_detail.html').
- Open Editors:** Two files are open in the editor:
 - souq_list.html:** A template file with Jinja2 syntax, showing a list of products.
 - souq_detail.html:** A template file with Jinja2 syntax, showing product details and a form for user interaction.
- Code Editor:** The right side of the screen displays the content of the 'souq_detail.html' template. It includes Jinja2 variables like {{souq.description|safe}}, form fields for product interest, and a button container for user authentication and subscription.
- Bottom Status Bar:** Shows file path (souq_detail.html - src - Visual Studio Code), line and column (Ln 37, Col 37), tab size (Tab Size: 4), and other status indicators.
- Bottom Icons:** Standard Windows taskbar icons for file operations, search, and system status.

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under the "SRC" folder, including "dist", "accounts", "db", "info", "jumia", "noon", "products", "migrations", "templates", "product", "souq", and "souq_detail.html".
- Open Editors:** Two files are open: "souq_list.html" and "souq_detail.html".
- Code Editor:** The "souq_detail.html" file is displayed, containing Django template code. The code includes logic for displaying products, calculating price changes, and handling product purchases.
- Bottom Status Bar:** Shows "Ln 77, Col 13" and other standard status bar information.

```
</td>
<td class="item-name">
<h3>
    {{ product.title }}
</h3>
</td>
<td class="item-price">
    <p>{{ product.lastprice|div:100 }} <span>EGP</span></p>
    <ul class="list-inline change-percent green">
        <li>
            <span>-6%</span>
        </li>
        <li>
            <i class="icon-arrow-down-en"></i>
        </li>
    </ul>
</td>
<td class="hidden-xs">
    <hs style="color: #rgb(64, 64, 228); ">Souq</hs>
</td>
<td>
    <a data-gtmid="product-buy|souq|egen" href={{ productpath }} target="_blank" rel="nofollow" href="{{ product.url }}" class="btn btn-primary" >Buy Now</a>
</td>
</tr>
{% endfor %}
    {% for product in jumia %}
    <td class="item-img">
        <img src={{ product.img }} height="70" class="ls-is-cached lazyloaded">
    </td>
```

```
{% for product in jumia %}
    <td class="item-img">
        
    </td>
    <td class="item-name">
        <h3>
            {{product.title}}
        </h3>
    </td>
    <td class="item-price">
        <p>{{(product.lastprice|div:100)} } <span>EGP</span></p>
        <ul class="list-inline change-percent green">
            <li>
                <span>-6%</span>
            </li>
            <li>
                <i class="icon-arrow-down-en"></i>
            </li>
        </ul>
    </td>
    <td class="hidden-xs">
        <h5 style="color: #F0B23B;">Jumia</h5>
    </td>
    <td>
        <a data-gtmid="product-buy|souq|len"
           productpath="/eg/en/off-clif-cotton-contrast-side-stripe-drawstringelastic-waist-slimfit-sweatpants-for-men-black"
           target="_blank" rel="nofollow"
           href="https://www.jumia.com.eg/{{product.url}}"
           class="btn btn-primary">Buy Now</a>
    </td>
</tr>
{% endfor %}
```

```

    ...
    <% for product in noon %>
        <td class="item-img">
            
        </td>
        <td class="item-name">
            <h3>{{product.title}}</h3>
        </td>
        <td class="item-price">
            <p>{{product.lastprice|div:100}} <span>EGP</span></p>
            <ul class="list-inline change-percent green">
                <li><span>-6%</span></li>
                <li><i class="icon-arrow-down-en"></i></li>
            </ul>
        <td class="hidden-xs">
            <h5 style="color: #rgb 226, 211, 76;">Noon</h5>
        </td>
        <td>
            <a data-gtmid="product-buy|Souq|eg|en"
               productpath="/eg/en/off-cliff-cotton-contrast-side-stripe-drawstringelastic-waist-slimfit-sweatpants-for-men-black"
               href="{{product.url}}"
               class="btn btn-primary">Buy Now</a>
        </td>
    <% endfor %>
</tbody>

```

```

    ...
    <td data-gtmid="product-buy|Souq|eg|en"
       productpath="/eg/en/off-cliff-cotton-contrast-side-stripe-drawstringelastic-waist-slimfit-sweatpants-for-men-black"
       href="{{product.url}}"
       class="btn btn-primary">Buy Now</a>
    </td>
<% endfor %>
</tbody>
</table>
</div>
<br>
<br>
</div>

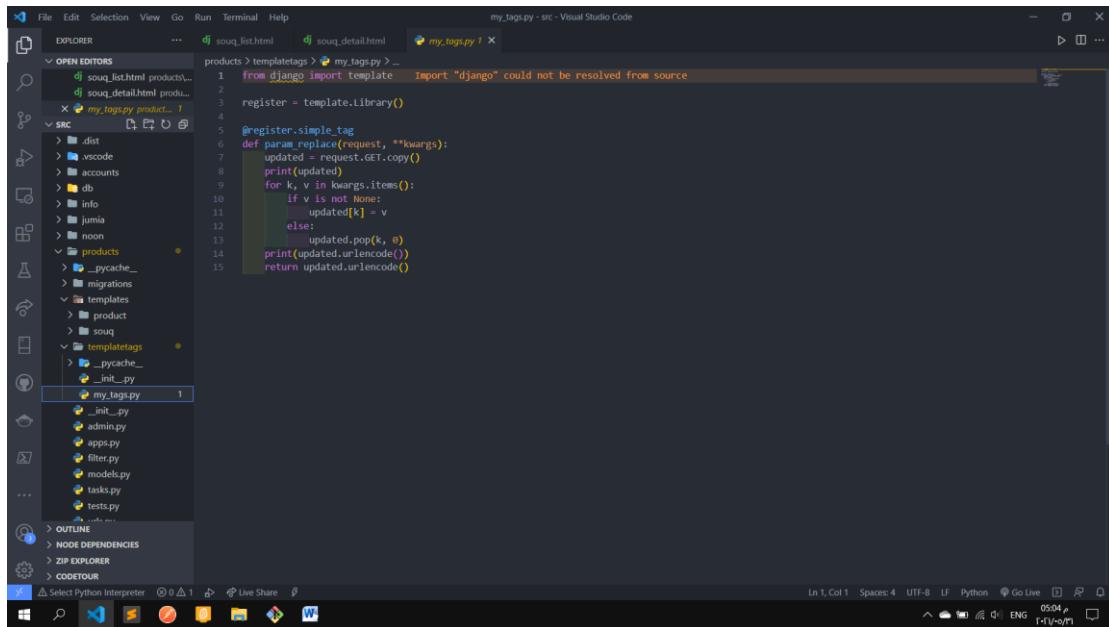
<!-- amcharts javascript sources -->
<script type="text/javascript" src="https://www.amcharts.com/lib/3/amcharts.js"></script>
<script type="text/javascript" src="https://www.amcharts.com/lib/3/serial.js"></script>
<script type="text/javascript" src="https://www.amcharts.com/lib/3/themes/patterns.js"></script>

<div class="container">
    <div id="mychart" width="500" height="400"></div>
</div>

<script type="text/javascript" src="http://code.jquery.com/jquery-1.10.0.min.js"></script>
<script type="text/javascript" src="{% static 'js/chart.min.js' %}"></script>
<script type="text/javascript">
    $.get("{% url 'products:chart' souq.id %}", function(data) {
        var ctx = $('#mychart').getContext('2d');
        new Chart(ctx, {
            type: 'line',
            data: data
        });
    });
</script>

```

10. Templatetags



```

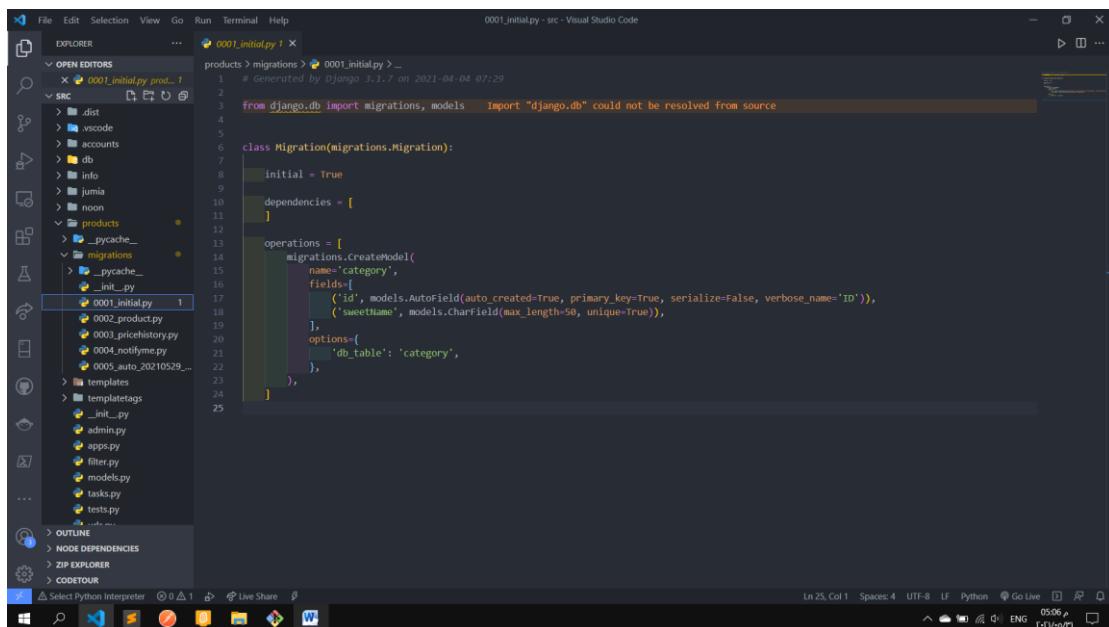
File Edit Selection View Go Run Terminal Help
my_tags.py - src - Visual Studio Code
EXPLORER ... dj souq_list.html dj souq_detail.html my_tags.py 1
OPEN EDITORS products > templatetags > my_tags.py ...
1 from django import template
2     import "django" could not be resolved from source
3 register = template.Library()
4
5 @register.simple_tag
6 def param_replace(request, **kwargs):
7     updated = request.GET.copy()
8     print(updated)
9     for k, v in kwargs.items():
10         if v is not None:
11             updated[k] = v
12         else:
13             updated.pop(k, None)
14     print(updated.urlencode())
15     return updated.urlencode()

```

The screenshot shows the Visual Studio Code interface with the 'my_tags.py' file open in the editor. The file contains Python code for a Django template tag named 'simple_tag'. The code imports the 'template' module from 'django', creates a library, and defines a function 'param_replace' that takes a 'request' and 'kwargs' parameter. It creates a copy of the request's GET parameters, prints the original, iterates over the kwargs, and updates the copied parameters with the new values. Finally, it prints the encoded URL of the updated parameters.

11. Migrations

- o 0001_initial.py



```

File Edit Selection View Go Run Terminal Help
0001_initial.py - src - Visual Studio Code
EXPLORER ... 0001_initial.py ...
OPEN EDITORS products > migrations > 0001_initial.py ...
1 # Generated by Django 3.1.7 on 2021-04-04 07:29
2
3 from django.db import migrations, models
4     Import "django.db" could not be resolved from source
5
6 class Migration(migrations.Migration):
7     initial = True
8     dependencies = [
9     ]
10    operations = [
11        migrations.CreateModel(
12            name='Category',
13            fields=[
14                ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
15                ('sweetname', models.CharField(max_length=50, unique=True)),
16            ],
17            options={
18                'db_table': 'category',
19            },
20        ),
21    ],
22]
23
24
25

```

The screenshot shows the Visual Studio Code interface with the '0001_initial.py' file open in the editor. The file is part of a Django migration. It starts with a comment indicating it was generated by Django 3.1.7 on April 4, 2021, at 07:29. It imports 'migrations' and 'models' from 'django.db'. The class 'Migration' is defined with 'initial' set to True. It has no dependencies. The 'operations' list contains a single 'CreateModel' operation for a 'Category' model. The model has an auto-created primary key ('id') and a unique 'sweetname' field (max length 50).

- 0002_product.py

```

products > migrations > 0002_product.py > ...
# Generated by Django 3.1.7 on 2021-04-25 07:52

from django.db import migrations, models
import django.db.models.deletion
import "django.db.models.deletion" could not be resolved from source

class Migration(migrations.Migration):
    dependencies = [
        ('jumia', '0003_remove_jumia_jumiaid'),
        ('noon', '0001_initial'),
        ('souq', '0006_auto_20210404_1340'),
        ('products', '0001_initial'),
    ]
    operations = [
        migrations.CreateModel(
            name='product',
            fields=[
                ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
                ('jumia', models.ForeignKey(on_delete=django.db.models.deletion.CASCADE, related_name='jumia', to='jumia.jumia', verbose_name='jumia')),
                ('noon', models.ForeignKey(on_delete=django.db.models.deletion.CASCADE, related_name='noon', to='noon.noon', verbose_name='noon')),
                ('souq', models.ForeignKey(on_delete=django.db.models.deletion.CASCADE, related_name='souq', to='souq.souq', verbose_name='souq'))
            ],
        ),
    ]

```

- 0003_pricehistory.py

```

products > migrations > 0003_pricehistory.py > ...
# Generated by Django 3.1.7 on 2021-05-24 02:42

from django.db import migrations, models
import django.db.models.deletion
import "django.db.models.deletion" could not be resolved from source

class Migration(migrations.Migration):
    dependencies = [
        ('souq', '0006_auto_20210404_1340'),
        ('products', '0002_product'),
    ]
    operations = [
        migrations.CreateModel(
            name='pricehistory',
            fields=[
                ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
                ('timeDate', models.DateTimeField()),
                ('lastPrice', models.CharField(blank=True, max_length=50, null=True)),
                ('souq', models.ForeignKey(on_delete=django.db.models.deletion.CASCADE, related_name='souqhis', to='souq.souq', verbose_name='souq'))
            ],
        ),
    ]

```

- o 0004_notifyme.py

```

File Edit Selection View Go Run Terminal Help
0004_notifyme.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ...
0004_notifyme.py 1 ...
products > migrations > 0004_notifyme.py > ...
# Generated by Django 3.1.1 on 2021-05-27 12:35
from django.db import migrations, models
# Import "django.db" could not be resolved from source

class Migration(migrations.Migration):
    dependencies = [
        ('products', '0003_pricehistory'),
    ]
    operations = [
        migrations.CreateModel(
            name='notifyme',
            fields=[
                ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
                ('username', models.CharField(max_length=200)),
                ('souqid', models.CharField(max_length=200)),
                ('lastPrice', models.CharField(max_length=200)),
            ],
        ),
    ]

```

- o 0005_auto_20210529_0605.py

```

File Edit Selection View Go Run Terminal Help
0005_auto_20210529_0605.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ...
0005_auto_20210529_0605.py 1 ...
products > migrations > 0005_auto_20210529_0605.py > ...
# Generated by Django 3.1.1 on 2021-05-29 04:05
from django.db import migrations, models
# Import "django.db" could not be resolved from source

class Migration(migrations.Migration):
    dependencies = [
        ('products', '0004_notifyme'),
    ]
    operations = [
        migrations.AddField(
            model_name='notifyme',
            name='expectedPrice',
            field=models.CharField(max_length=200, null=True),
        ),
        migrations.AddField(
            model_name='notifyme',
            name='timeDate',
            field=models.DateTimeField(null=True),
        ),
    ]

```

Souq:

1. Models

```

models.py - souq - Visual Studio Code

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS SRC
models.py souq
souq > models.py:1: from django.db import models Import "django.db" could not be resolved from source
1
2
3
4 class Souq(models.Model):
5     title = models.CharField(max_length=300, blank=True, null=True)
6     manufacturer = models.CharField(max_length=500, blank=True, null=True)
7     description = models.TextField()
8     img = models.TextField(default="")
9     url = models.CharField(max_length=50, blank=True, null=True)
10    active = models.BooleanField(blank=True, null=True)
11    lastprice = models.CharField(max_length=50, blank=True, null=True)
12    souqid = models.TextField()
13    rate = models.FloatField()
14    category=models.ForeignKey("products.category",verbose_name="category", related_name="souq",on_delete=models.CASCADE,default=1)
15
16    class Meta:
17        db_table = 'souq'
18

```

Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live ⚡ ⚡ ENG 05:13 ↻

2. Admin

```

admin.py - souq - Visual Studio Code

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS SRC
admin.py souq
souq > admin.py:1: from django.contrib import admin Import "django.contrib" could not be resolved from source
1
2
3 # Register your models here.
4

```

Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live ⚡ ⚡ ENG 05:14 ↻

3. Apps

```

souq > apps.py > ...
1 from django.apps import AppConfig Import "django.apps" could not be resolved from source
2
3
4 class SouqConfig(AppConfig):
5     name = 'souq'
6

```

4. Tests

```

souq > tests.py > ...
1 from django.test import TestCase Import "django.test" could not be resolved from source
2
3 # Create your tests here.
4

```

5. Views

```

File Edit Selection View Go Run Terminal Help
views.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ... views.py 1
views.py 1
souq > views.py
1 from django.shortcuts import render Import "django.shortcuts" could not be resolved from source
2
3 # Create your views here.
4
SRC
> dist
> vscode
> accounts
> db
> info
> jumia
> noon
> products
> project
> setting
> souq
> souq_pycache_
> migrations
> __init__.py
> admin.py
> apps.py
> models.py
d souq_detail.html
d souq_list.html
t tests.py
views.py 1
> static
> templates
> utils
> .gitignore
> celerybeat.pid
> .vscode
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 1 Live Share 05:17 p

```

6. Migrations

- o 0001_initial.py

```

File Edit Selection View Go Run Terminal Help
0001_initial.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ... 0001_initial.py 1
0001_initial.py 1
souq > migrations > 0001_initial.py > Migration
1 # Generated by Django 3.1.7 on 2021-04-03 13:42
2
3 from django.db import migrations, models Import "django.db" could not be resolved from source
4
5
6 class Migration(migrations.Migration):
7     initial = True
8
9     dependencies = [
10 ]
11
12     operations = [
13         migrations.CreateModel(
14             name='Souq',
15             fields=[
16                 ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
17                 ('sku', models.CharField(blank=True, max_length=50, null=True)),
18                 ('title', models.CharField(blank=True, max_length=300, null=True)),
19                 ('manufacturer', models.CharField(blank=True, max_length=50, null=True)),
20                 ('description', models.TextField()),
21                 ('img', models.TextField()),
22                 ('active', models.BooleanField(blank=True, null=True)),
23                 ('lastprice', models.CharField(blank=True, max_length=50, null=True)),
24                 ('souqid', models.IntegerField()),
25                 ('rate', models.IntegerField()),
26             ],
27         ),
28         migrations.options.Options(
29             'db_table': 'souq',
30         ),
31     ],
32 )
33
34
SRC
> dist
> vscode
> accounts
> db
> info
> jumia
> noon
> products
> project
> setting
> souq
> souq_pycache_
> migrations
> __init__.py
> admin.py
> apps.py
> models.py
d 0001_initial.py 1
d 0002_remove_souq_sk...
d 0003_auto_20210403...
d 0004_souq_category.py
d 0005_souq_url.py
d 0006_auto_20210404...
> __init__.py
> admin.py
> apps.py
> models.py
> souq_detail.html
> souq_list.html
t tests.py
> .gitignore
> celerybeat.pid
> .vscode
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 1 Live Share 05:19 p

```

- 0002_remove_souq_sku.py

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows the project structure under the 'src' folder:
 - souq > migrations > 0002_remove_seq_sku.py
 - 0002_remove_seq_sku.py (selected)
 - 0003_auto_20210403_...
 - 0004_souq_category.py
 - 0005_souq_url.py
 - 0006_auto_20210404_...
 - __init__.py
 - admin.py
 - apps.py
 - models.py
 - souq_detail.html
- Code Editor:** The main area displays the Python code for the 'migrations' module.

```
from django.db import migrations

class Migration(migrations.Migration):
    dependencies = [
        ('souq', '0001_initial'),
    ]
    operations = [
        migrations.RemoveField(
            model_name='souq',
            name='sku',
        ),
    ]
```
- Status Bar:** At the bottom, it shows 'Ln 1, Col 1' and other standard status bar information.

- 0003_auto_20210403_1814.py

The screenshot shows the Visual Studio Code interface with the following details:

- Title Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help, 0003_auto_20210403_1814.py - src - Visual Studio Code
- Explorer Bar (Left):**
 - OPENED EDITORS: 0003_auto_20210403_1814.py
 - SRC
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - __pycache__
 - migrations
 - __pycache__
 - _init_.py
 - 0001_initial.py
 - 0002_remove_souq_sk...
 - 0003_auto_20210403_1...
 - 0004_souq_category.py
 - 0005_souq_url.py
 - 0006_auto_20210404_...
 - _init_.py
 - admin.py
 - apps.py
 - models.py
 - souq_detail.html
- Code Editor (Center):** The file 0003_auto_20210403_1814.py is open, showing a Django migration class definition. The code includes imports, dependencies, and operations for altering fields.
- Bottom Status Bar:** Ln 24, Col 1 | Spaces: 4 | UTF-8 | LF | Python | Go Live | 0521 | ENG | F1-F9/M1

- o 0004_souq_category.py

```
File Edit Selection View Go Run Terminal Help 0004_souq_category.py - src - Visual Studio Code

EXPLORER ...
OPEN EDITORS ...
0004_souq_category.py 2
souq > migrations > 0004_souq_category.py ...
1 # Generated by Django 3.1.7 on 2021-04-04 08:10
2
3 from django.db import migrations, models
4 import django.db.models.deletion
5
6
7 class Migration(migrations.Migration):
8
9     dependencies = [
10         ('products', '0001_initial'),
11         ('souq', '0003_auto_20210403_1814'),
12     ]
13
14     operations = [
15         migrations.AddField(
16             model_name='souq',
17             name='category',
18             field=models.ForeignKey(default=1, on_delete=django.db.models.deletion.CASCADE, related_name='souq', to='products.category', verbose_name='Category'),
19         ),
20     ]
21

Ln 21, Col 1  Spaces: 4  UTF-8  LF  Go Live  0522 ↻ ENG  F1-F9/M1
```

- o 0005_souq_url.py

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows the project structure under the 'SRC' folder:
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - __pycache__
 - migrations
 - __pycache__
 - __init__.py
 - 0001_initial.py
 - 0002_remove_souq_sk...
 - 0003_auto_20210403...
 - 0004_souq_category.py
 - 0005_souq_url.py
 - 0006_auto_20210404...
 - admin.py
 - apps.py
 - models.py
 - souq_detail.html
 - OUTLINE, NODE DEPENDENCIES, ZIP EXPLORER, and CODETOUR are also visible in the sidebar.
 - Code Editor:** The main area displays the file '0005_souq_url.py' with the following content:

```
souq > migrations > 0005_souq_url.py ...  
1     # Generated by Django 3.1.7 on 2021-04-04 11:09  
2  
3     from django.db import migrations, models  
4     # Importing 'django.db' failed to resolve source.  
5  
6     class Migration(migrations.Migration):  
7  
8         dependencies = [  
9             ('souq', '0004_souq_category'),  
10        ]  
11  
12         operations = [  
13             migrations.AddField(  
14                 model_name='souq',  
15                 name='url',  
16                 field=models.TextField(default=''),  
17             ),  
18         ]  
19
```
 - Status Bar:** At the bottom, it shows 'Ln 19 Col 1 Spaces: 4 UTF-8 LF Python' and various system icons.

- 0006_auto_20210404_1340.py

The screenshot shows the Visual Studio Code interface with a Django project open. The Explorer sidebar on the left lists the project structure, including the `migrations` directory which contains several migration files like `0001_auto_20210404_1340.py`. The main editor pane displays the content of `0006_auto_20210404_1340.py`, which includes code to alter a field named `souq` in the `manufacture` model. A red squiggle underlines the word `souq`, indicating a syntax error. The status bar at the bottom shows the file is 19 lines long, has 1 error, and is in Python mode.

```
0006_auto_20210404_1340.py
souq > migrations > 0006_auto_20210404_1340.py > ...
1 # Generated by Django 3.1.7 on 2021-04-04 11:40.
2
3 from django.db import migrations, models
4
5
6 class Migration(migrations.Migration):
7     dependencies = [
8         ('souq', '0005_souq_url'),
9     ]
10
11     operations = [
12         migrations.AlterField(
13             model_name='souq',
14             name='manufacture',
15             field=models.CharField(blank=True, max_length=500, null=True),
16         ),
17     ]
18
19
```

Settings:

1. Models

```
models.py 1
from django.db import models
# Create your models here.

class Info(models.Model):
    name=models.CharField(max_length=100)
    logo=models.ImageField(upload_to='info/')
    description=models.TextField(max_length=300)
    fb_link=models.URLField(max_length=200)
    twitter_link=models.URLField(max_length=200)
    instagram_link=models.URLField(max_length=200)
    address=models.TextField(max_length=200)
    phone_number=models.CharField(max_length=200)
    email=models.EmailField(max_length=60)

    def __str__(self):
        return self.name

    class Meta:
        verbose_name = 'Info'
        verbose_name_plural = 'Infos'
```

2. Admin

```
admin.py 1
setting > admin.py
1   from settings.models import Info
2   from django.contrib import admin Import "django.contrib" could not be resolved from source
3   from .models import Info
4
5
6   admin.site.register(Info)
```

3. Apps

```
apps.py 1
setting > apps.py
1   from django.apps import AppConfig Import "django.apps" could not be resolved from source
2
3
4   class SettingConfig(AppConfig):
5     name = 'setting'
```

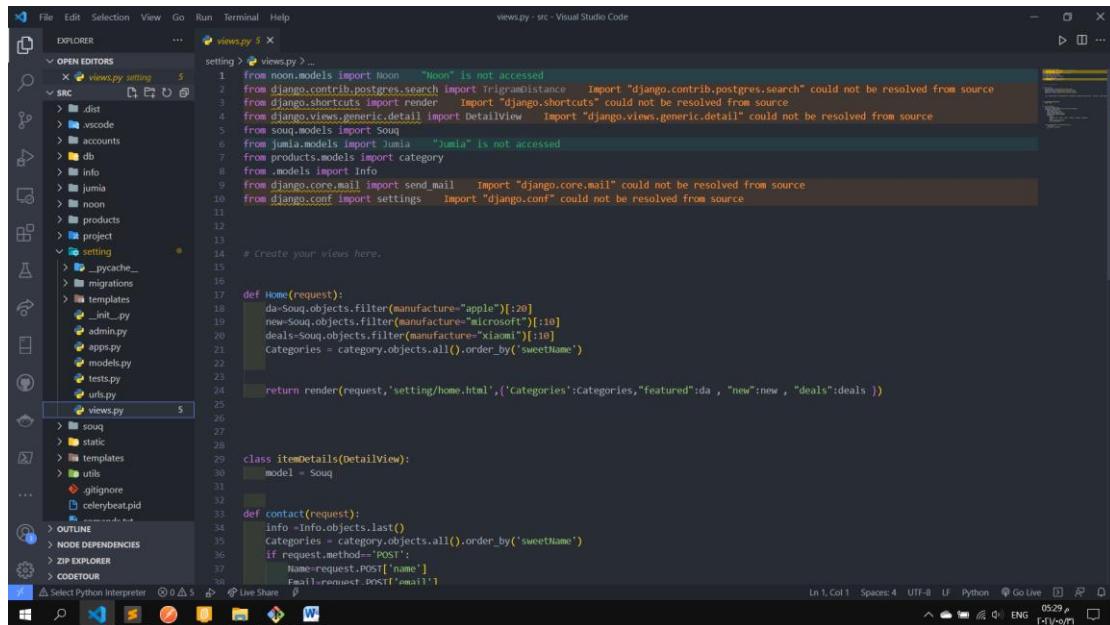
4. Tests

```
tests.py 1
setting > tests.py
1 from django.test import TestCase Import "django.test" could not be resolved from source
2
3 # Create your tests here.
4
```

5.Urls

```
urls.py 1
setting > urls.py
1 from django.urls import path Import "django.urls" could not be resolved from source
2
3
4 app_name='setting'
5
6 urlpatterns=[
7     path('', views.Home ,name='Home'),
8     path('contact/', views.contact ,name='contact'),
9     path('<int:pk>', views.itemDetails.as_view() , name='itemDetails'),
10
11
12
13
14
15
```

6. Views



The screenshot shows the Visual Studio Code interface with the file `views.py` open. The code contains several syntax errors, which are highlighted in red and underlined. The errors are related to imports from modules like `moon`, `django.contrib.postgres.search`, `django.shortcuts`, and `django.core.mail`. The code itself defines two functions: `Home` and `itemDetails`.

```

setting > views.py > ...
1  from moon.models import Moon  "Moon" is not accessed
2  from django.contrib.postgres.search import TrigramDistance  Import "django.contrib.postgres.search" could not be resolved from source
3  from django.shortcuts import render  Import "django.shortcuts" could not be resolved from source
4  from django.views.generic.detail import DetailView  Import "django.views.generic.detail" could not be resolved from source
5  from souq.models import Souq
6  from jumia.models import Jumia  "Jumia" is not accessed
7  from deals.models import Category
8  from .models import Info
9  from django.core.mail import send_mail  Import "django.core.mail" could not be resolved from source
10 from django.conf import settings  Import "django.conf" could not be resolved from source

# Create your views here.

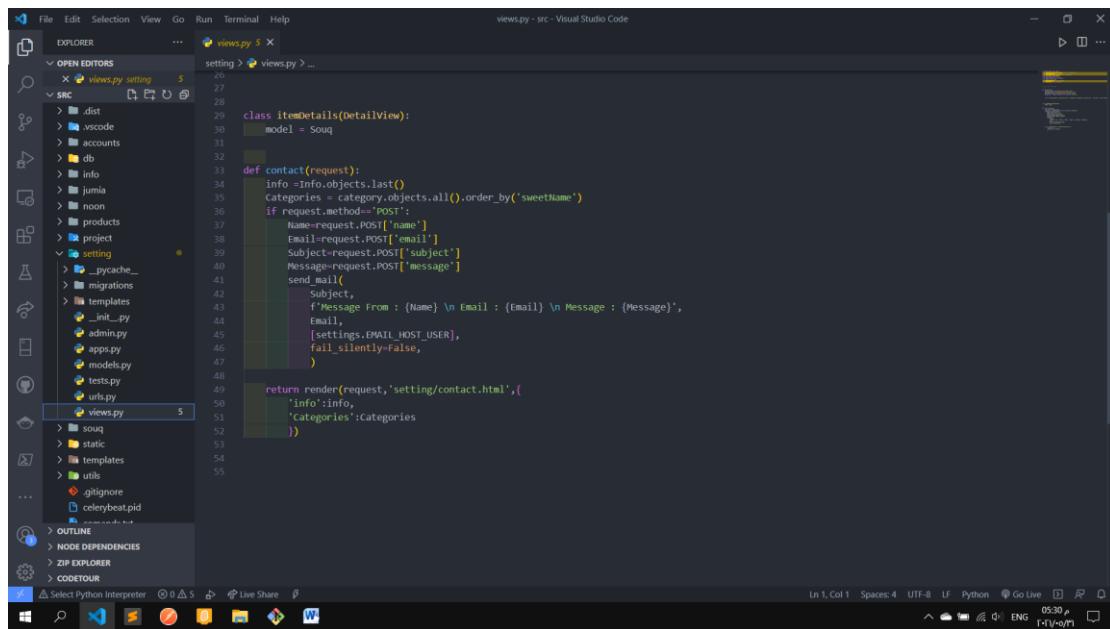
def Home(request):
    daSouq.objects.filter(manufacture='apple')[::20]
    newSouq.objects.filter(manufacture='microsoft')[::10]
    deals=Souq.objects.filter(manufacture='xiami')[::10]
    Categories = category.objects.all().order_by('sweetName')

    return render(request,'setting/home.html',{'Categories':Categories,"featured":da , "new":new , "deals":deals })

class itemDetails(DetailView):
    model = Souq

    def contact(request):
        info =Info.objects.last()
        Categories = category.objects.all().order_by('sweetName')
        if request.method=="POST":
            Name=request.POST['name']
            Email=request.POST['email']
            Subject=request.POST['subject']
            Message=request.POST['message']
            send_mail(
                Subject,
                f'Message From : {Name} \n Email : {Email} \n Message : {Message}',
                Email,
                [settings.EMAIL_HOST_USER],
                fail_silently=False,
            )

```



The screenshot shows the Visual Studio Code interface with the file `views.py` open. The code has been corrected, and the syntax errors from the previous screenshot have been removed. The code now includes a `contact` function that handles POST requests and sends an email using the `send_mail` function.

```

setting > views.py > ...
20
21
22
23
24
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27
28
29
30
31
32
33
34
35
36
37
38
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45
46
47
48
49
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51
52
53
54
55

class itemDetails(DetailView):
    model = Souq

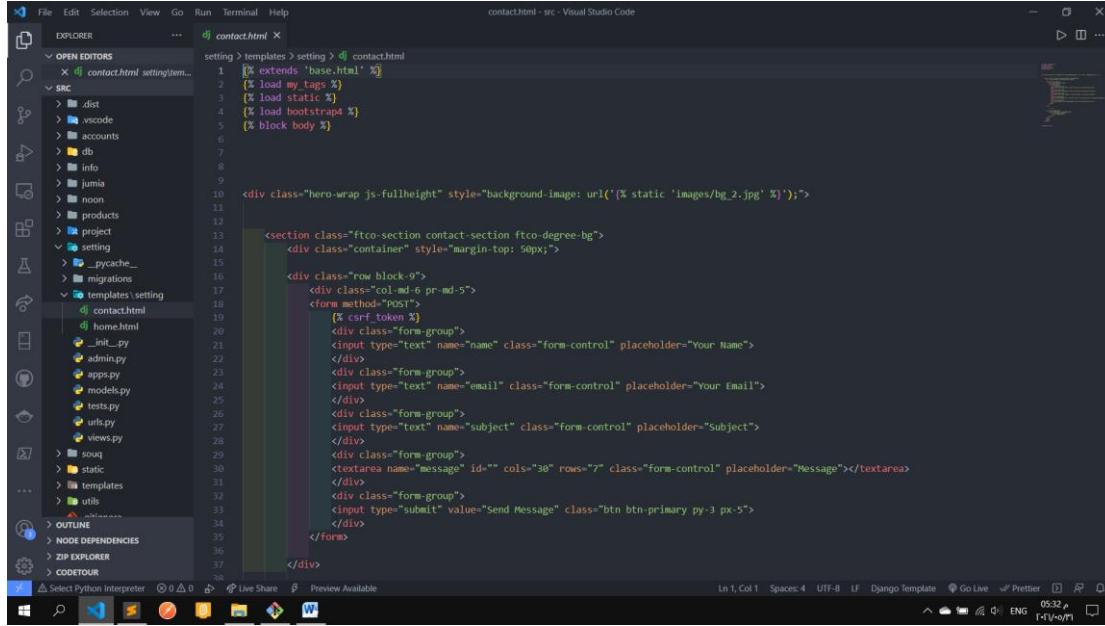
    def contact(request):
        info =Info.objects.last()
        Categories = category.objects.all().order_by('sweetName')
        if request.method=="POST":
            Name=request.POST['name']
            Email=request.POST['email']
            Subject=request.POST['subject']
            Message=request.POST['message']
            send_mail(
                Subject,
                f'Message From : {Name} \n Email : {Email} \n Message : {Message}',
                Email,
                [settings.EMAIL_HOST_USER],
                fail_silently=False,
            )

        return render(request,'setting/contact.html',{
            'info':info,
            'Categories':Categories
        })

```

7. Templates

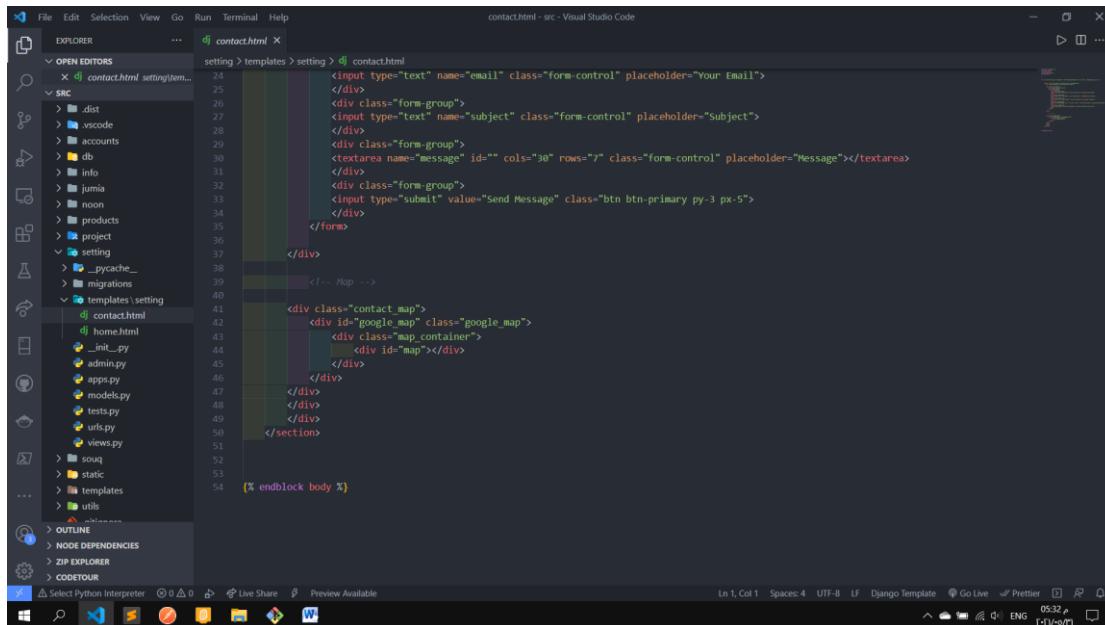
- o Setting/Contact.html



```

setting > templates > setting > contact.html
1  {% extends 'base.html' %} 
2  {% load my_tags %}
3  {% load static %}
4  {% load bootstrap4 %}
5  {% block body %}

6
7
8
9
10 <div class="hero-wrap js-fullheight" style="background-image: url('{{ static 'images/bg_2.jpg' }}');>
11
12 <section class="ftco-section contact-section ftco-degree-bg">
13   <div class="container" style="margin-top: 50px;">
14
15     <div class="row block-9">
16       <div class="col-md-6 pr-md-5">
17         <form method="POST">
18           <% csrf_token %>
19           <div class="form-group">
20             <input type="text" name="name" class="form-control" placeholder="Your Name">
21           </div>
22           <div class="form-group">
23             <input type="text" name="email" class="form-control" placeholder="Your Email">
24           </div>
25           <div class="form-group">
26             <input type="text" name="subject" class="form-control" placeholder="Subject">
27           </div>
28           <div class="form-group">
29             <textarea name="message" id="" cols="30" rows="7" class="form-control" placeholder="Message"></textarea>
30           </div>
31           <div class="form-group">
32             <input type="submit" value="Send Message" class="btn btn-primary py-3 px-5">
33           </div>
34         </form>
35
36     </div>
37   </div>
38
39   <!-- Map -->
40
41   <div class="contact_map">
42     <div id="google_map" class="google_map">
43       <div class="map_container">
44         <div id="map"></div>
45       </div>
46     </div>
47   </div>
48
49
50
51
52
53
54  {% endblock body %}
```



```

setting > templates > setting > contact.html
1  <input type="text" name="email" class="form-control" placeholder="Your Email">
2
3  <div class="form-group">
4    <input type="text" name="subject" class="form-control" placeholder="Subject">
5  </div>
6
7  <div class="form-group">
8    <textarea name="message" id="" cols="30" rows="7" class="form-control" placeholder="Message"></textarea>
9  </div>
10 <div class="form-group">
11   <input type="submit" value="Send Message" class="btn btn-primary py-3 px-5">
12 </div>
13
14 <!-- Map -->
15
16 <div class="contact_map">
17   <div id="google_map" class="google_map">
18     <div class="map_container">
19       <div id="map"></div>
20     </div>
21   </div>
22 </div>
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
39
40
41
42
43
44
45
46
47
48
49
49
50
51
52
53
54  {% endblock body %}
```

- Setting\home.html

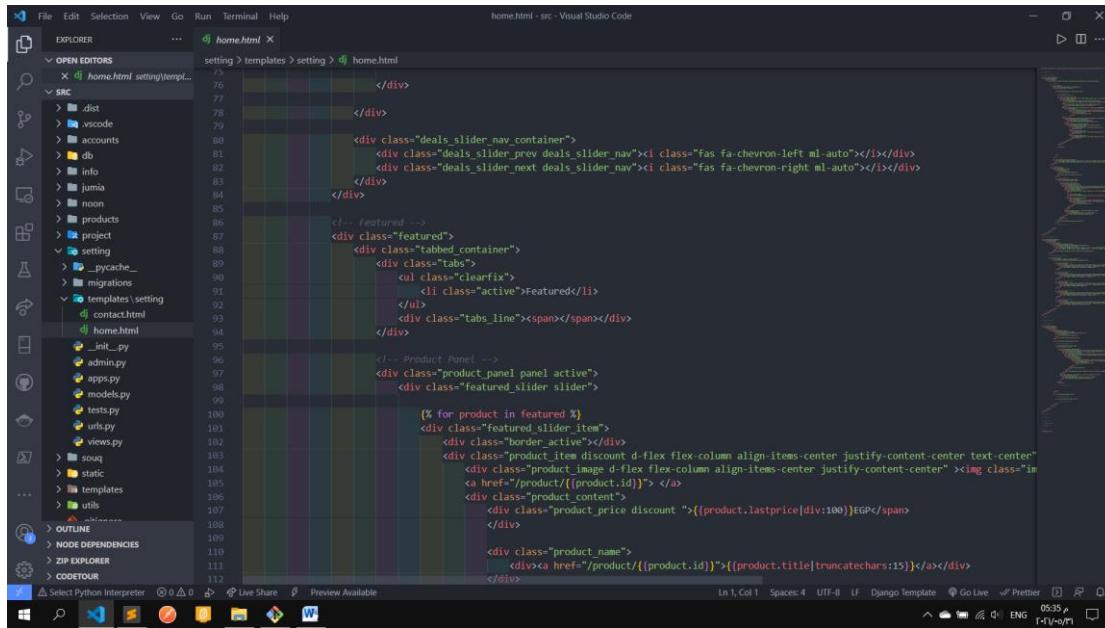
The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows the project structure under 'SRC'. The 'home.html' file is selected.
- Code Editor:** The main area displays the 'home.html' template code. It includes sections for the banner, deals of the week, deals slider, and deals items. The deals item section iterates over products and displays their details.
- Terminal:** At the bottom, the terminal shows the command 'python manage.py runserver' and the output 'Django server ready on [http://127.0.0.1:8000] (Press Ctrl+C to quit)'.
- Status Bar:** The status bar at the bottom right shows the file path 'home.html - src - Visual Studio Code', the line number 'Ln 1, Col 1', and other system information.

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure with files like `home.html`, `admin.py`, `models.py`, etc.
- Editor (Center):** Displays the content of `home.html`. The code includes Jinja2 templating syntax (`{% for %}`, `{% endfor %}`) and CSS classes like `ml-auto` and `center`.
- Bottom Status Bar:** Shows file path (`home.html - src - Visual Studio Code`), line number (71), column number (1), and various status icons.

```
</div>
<div class="deals_item_price ml-auto">{{product.lastprice|floatformat:1}}EGP</div>
<div class="center">
  <span id="rating_val">{{product.rate|floatformat:1}}</span>
  <div class="rating" forloop.counter0> {{product.rating}} </div>
</div>
<div class="deals_timer d-flex flex-row align-items-center justify-content-start">
  <div class="deals_timer_title container">
    <div class="deals_timer_title">Hurry up!</div>
    <div class="deals_timer_subtitle">Offer ends in:</div>
  </div>
  <div class="deals_timer_content ml-auto">
    <div class="deals_timer_box clearfix" data-target-time="">
      <div class="deals_timer_unit">
        <div id="deals_timer1_hr" class="deals_timer_hr"></div>
        <span>hours</span>
      </div>
      <div class="deals_timer_unit">
        <div id="deals_timer1_min" class="deals_timer_min"></div>
        <span>mins</span>
      </div>
      <div class="deals_timer_unit">
        <div id="deals_timer1_sec" class="deals_timer_sec"></div>
        <span>secs</span>
      </div>
    </div>
  </div>
</div>
<% endfor %>
```



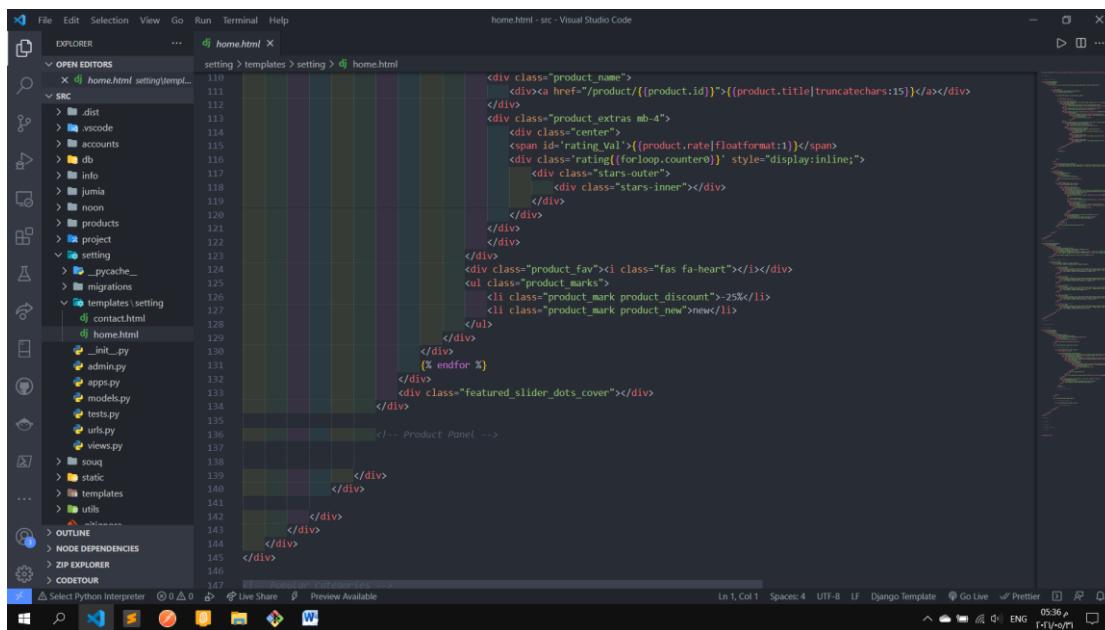
```

<div class="deals_slider_nav_container">
  <div class="deals_slider_prev deals_slider_nav"><i class="fas fa-chevron-left ml-auto"></i></div>
  <div class="deals_slider_next deals_slider_nav"><i class="fas fa-chevron-right ml-auto"></i></div>
</div>

<!-- Featured -->
<div class="featured">
  <div class="tabbed_container">
    <div class="clearfix">
      <ul class="active">Featured</ul>
    </ul>
    <div class="tabs_line"><span></span></div>
  </div>
</div>

<!-- Product Panel -->
<div class="product_panel panel active">
  <div class="featured_slider slider">
    <% for product in featured %>
      <div class="featured_slider_item">
        <div class="border_active"></div>
        <div class="product_item_discount d-flex flex-column align-items-center justify-content-center text-center">
          <div class="product_image d-flex flex-column align-items-center justify-content-center" ><img alt="Product image" class="img-fluid" href="/product/{{product.id}}"/></div>
          <div class="product_content">
            <div class="product_price discount ">{{product.lastprice|div:100}}EGP</div>
            <div class="product_name">
              <a href="/product/{{product.id}}">{{product.title|truncatechars:15}}</a>
            </div>
          </div>
        </div>
      </div>
    <% endfor %>
  </div>
</div>

```



```

<div class="product_name">
  <a href="/product/{{product.id}}">{{product.title|truncatechars:15}}</a>
</div>
<div class="product_extras mb-4">
  <div class="center">
    <span id="rating_val">{{product.rate|floatformat:1}}</span>
    <div class="rating" style="display:inline;">
      <div class="stars_outer">
        <div class="stars_inner"></div>
      </div>
    </div>
  </div>
</div>
<div class="product_fav"><i class="fas fa-heart"></i></div>
<ul class="product_marks">
  <li class="product_mark product_discount">25%</li>
  <li class="product_mark product_new">new</li>
</ul>
</div>
<% endfor %>
<div class="featured_slider_dots_cover"></div>
</div>
<!-- Product Panel -->
</div>
</div>

```

File Edit Selection View Go Run Terminal Help

OPEN EDITORS **home.html**

SRC

setting > templates > setting > **home.html**

```

147    <!-- Popular Categories -->
148    <div class="popular_categories">
149      <div class="container">
150        <div class="row">
151          <div class="col-lg-3">
152            <div class="popular_categories_content">
153              <div class="popular_categories_title">Popular Categories</div>
154              <div class="popular_categories_slider_nav">
155                <div class="popular_categories_prev popular_categories_nav"><i class="fas fa-angle-left ml-auto"></i></div>
156                <div class="popular_categories_next popular_categories_nav"><i class="fas fa-angle-right ml-auto"></i></div>
157              </div>
158              <div class="popular_categories_link"><a href="#">full catalog</a></div>
159            </div>
160          </div>
161        </div>
162      </div>
163    </div>
164    <!-- Popular Categories slider -->
165    <div class="col-lg-9">
166      <div class="popular_categories_slider_container">
167        <div class="owl-carousel owl-theme popular_categories_slider">
168          <!-- Popular Categories Item -->
169          <div class="owl-item">
170            <div class="popular_category d-flex flex-column align-items-center justify-content-center">
171              <div class="popular_category_image"></div>
172              <div class="popular_category_text">Smartphones & Tablets</div>
173            </div>
174          </div>
175          <!-- Popular Categories Item -->
176          <div class="owl-item">
177            <div class="popular_category d-flex flex-column align-items-center justify-content-center">
178              <div class="popular_category_image"></div>
179              <div class="popular_category_text">Computers & Laptops</div>
180            </div>
181          </div>
182        </div>
183      </div>
184    </div>
185  </div>
186  </div>
187  </div>
188  </div>
189  </div>
190  </div>
191  </div>
192  </div>
193  </div>
194  </div>
195  </div>
196  </div>
197  </div>
198  </div>
199  </div>

```

Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier ⌂ ENG 0537 ⌂

File Edit Selection View Go Run Terminal Help

OPEN EDITORS **home.html**

SRC

setting > templates > setting > **home.html**

```

163    <!-- Popular Categories slider -->
164    <div class="col-lg-9">
165      <div class="popular_categories_slider_container">
166        <div class="owl-carousel owl-theme popular_categories_slider">
167          <!-- Popular Categories Item -->
168          <div class="owl-item">
169            <div class="popular_category d-flex flex-column align-items-center justify-content-center">
170              <div class="popular_category_image"></div>
171              <div class="popular_category_text">Smartphones & Tablets</div>
172            </div>
173          </div>
174          <!-- Popular Categories Item -->
175          <div class="owl-item">
176            <div class="popular_category d-flex flex-column align-items-center justify-content-center">
177              <div class="popular_category_image"></div>
178              <div class="popular_category_text">Computers & Laptops</div>
179            </div>
180          </div>
181          <!-- Popular Categories Item -->
182          <div class="owl-item">
183            <div class="popular_category d-flex flex-column align-items-center justify-content-center">
184              <div class="popular_category_image"></div>
185              <div class="popular_category_text">Gadgets</div>
186            </div>
187          </div>
188          <!-- Popular Categories Item -->
189          <div class="owl-item">
190            <div class="popular_category d-flex flex-column align-items-center justify-content-center">
191              <div class="popular_category_image"></div>
192              <div class="popular_category_text">Video Games & Consoles</div>
193            </div>
194          </div>
195        </div>
196      </div>
197    </div>
198    </div>
199    </div>

```

Ln 214, Col 7 Spaces: 4 UTF-8 LF Django Template Go Live Prettier ⌂ ENG 0538 ⌂

APC

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure with files like `home.html`, `home.html setting`, `__init__.py`, `admin.py`, `apps.py`, `models.py`, `tests.py`, `urls.py`, and `views.py`. It also lists `templates` and `utils` folders.
- Code Editor (Center):** The `home.html` file is open. The code includes sections for `Popular Categories`, `Best Sellers`, and `Best Sellers Slider`. The `Popular Categories` section uses a `owl-item` class. The `Best Sellers` section has a `panel active` class. The `Best Sellers Slider` section uses a `bestsellers_slider slider` class.
- Bottom Status Bar:** Shows the current line (L 214), spaces (Spaces: 4), encoding (UTF-8), file type (Django Template), and other status information.

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure with files like `home.html`, `best_sellers.html`, `category.html`, `contact.html`, `index.html`, `product.html`, and `search.html`.
- Editor (Center):** Displays the content of `home.html`. The code is a Django template with HTML and Python logic. It includes sections for "Best Sellers" and "New Arrivals". The "Best Sellers" section uses a slider component.
- Bottom Status Bar:** Shows file statistics (Line 248, Col 63), workspace settings (Spaces: 4, UFF-B, LF), and developer tools (Django Template, Go Live, Prettier).
- Bottom Icons:** Standard VS Code icons for file operations, navigation, and extensions.

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure with files like `home.html`, `home.html setting`, `src`, `__init__.py`, `admin.py`, `apps.py`, `models.py`, `tests.py`, `urls.py`, and `views.py`.
- Code Editor (Center):** Displays the `home.html` template code. The code includes HTML structure, CSS classes like `bestsellers_price_discount` and `bestsellers_fav_active`, and Django template tags like `{% for %}` and `{% endblock body %}`. A tooltip is visible over the `active` class.
- Bottom Status Bar:** Shows "In 275, Col 7" and "Live Share".
- Bottom Icons:** Includes icons for Python, GitHub, and other development tools.

8. Migrations

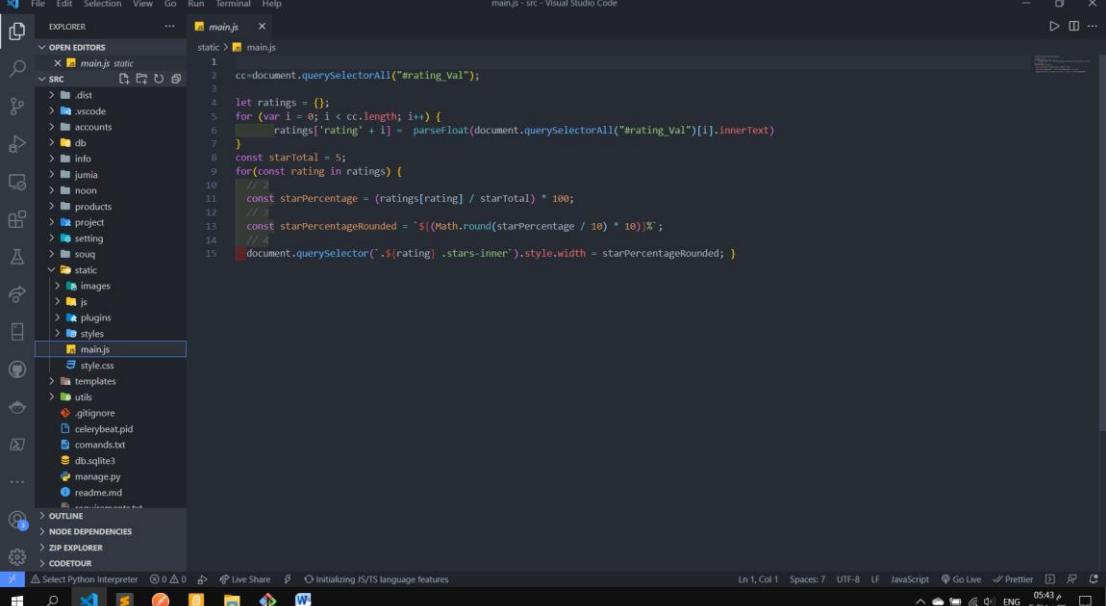
- o 0001_initial.py

The screenshot shows the Visual Studio Code interface with a Django project open. The left sidebar displays the file tree under 'SRC' and 'OPEN EDITORS'. The main editor window shows a Python migration file, `0001_initial.py`, which defines a new model named 'Info' with various fields like ID, name, logo, description, and social media links.

```
setting > migrations > 0001_initial.py > ...
1 # Generated by Django 3.1.7 on 2021-05-27 09:43
2
3 from django.db import migrations, models
4     Import "django.db" could not be resolved from source
5
6 class Migration(migrations.Migration):
7
8     initial = True
9
10    dependencies = [
11        ]
12
13    operations = [
14        migrations.CreateModel(
15            name='Info',
16            fields=[
17                ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
18                ('name', models.CharField(max_length=100)),
19                ('logo', models.ImageField(upload_to='info/')),
20                ('description', models.TextField(max_length=300)),
21                ('fb_link', models.URLField()),
22                ('twitter_link', models.URLField()),
23                ('instagram_link', models.URLField()),
24                ('adress', models.TextField(max_length=200)),
25                ('phone_number', models.CharField(max_length=200)),
26                ('email', models.EmailField(max_length=60)),
27            ],
28            options={
29                'verbose_name': 'Info',
30                'verbose_name_plural': 'Infos',
31            },
32        ),
33    ],
34]
```

Static:

- o Main.js



```

File Edit Selection View Go Run Terminal Help
main.js - src - Visual Studio Code
EXPLORER OPEN EDITORS ... main.js
static > main.js
1 static > cc=document.querySelectorAll("#rating_val");
2
3 let ratings = {};
4 for (var i = 0; i < cc.length; i++) {
5   ratings['rating' + i] = parseFloat(document.querySelectorAll("#rating_val")[i].innerText)
6 }
7 const startTotal = 5;
8 for(const rating in ratings) {
9   // ...
10  const starPercentage = (ratings[rating] / startTotal) * 100;
11  // ...
12  const starPercentageRounded = `${(Math.round(starPercentage / 10) * 10)}%`;
13  // ...
14  document.querySelector(`#${rating}.stars-inner`).style.width = starPercentageRounded;
15

```

File Edit Selection View Go Run Terminal Help

main.js - src - Visual Studio Code

EXPLORER OPEN EDITORS ... main.js

static > main.js

File Explorer:

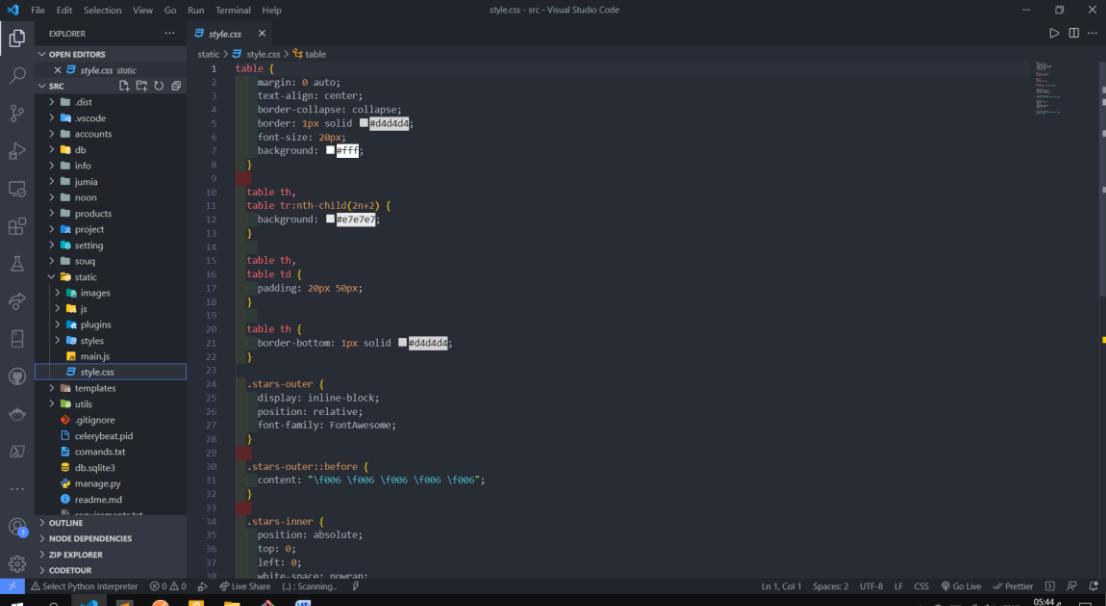
- src
- dist
- .vscode
- accounts
- db
- info
- junia
- noon
- products
- project
- setting
- souq
- static
- images
- js
- plugins
- styles
- main.js
- style.css
- templates
- utils
- .gitignore
- celerybeat.pid
- commands.txt
- db.sqlite3
- manage.py
- readme.md

Outline Node Dependencies Zip Explorer Codetour

Select Python Interpreter Live Share Initializing JS/TS language features

Ln 1, Col 1 Spaces: 7 UTF-8 LF JavaScript Go Live Prettier

- o Style.css



```

File Edit Selection View Go Run Terminal Help
style.css - src - Visual Studio Code
EXPLORER OPEN EDITORS ... style.css
static > style.css > table
1 table {
2   margin: 0 auto;
3   text-align: center;
4   border-collapse: collapse;
5   border: 1px solid #d4d4d4;
6   font-size: 20px;
7   background: #fffff;
8 }
9
10 table th,
11 table tr:nth-child(2n+2) {
12   background: #ebe7e7;
13 }
14
15 table th,
16 table td {
17   padding: 20px 50px;
18 }
19
20 table th {
21   border-bottom: 1px solid #d4d4d4;
22 }
23
24 .stars-outer {
25   display: inline-block;
26   position: relative;
27   font-family: FontAwesome;
28 }
29
30 .stars-outer::before {
31   content: "\f000 \f006 \f006 \f006 \f006";
32 }
33
34 .stars-inner {
35   position: absolute;
36   top: 0;
37   left: 0;
38   white-space: nowrap;
39 }

```

File Edit Selection View Go Run Terminal Help

style.css - src - Visual Studio Code

EXPLORER OPEN EDITORS ... style.css

static > style.css

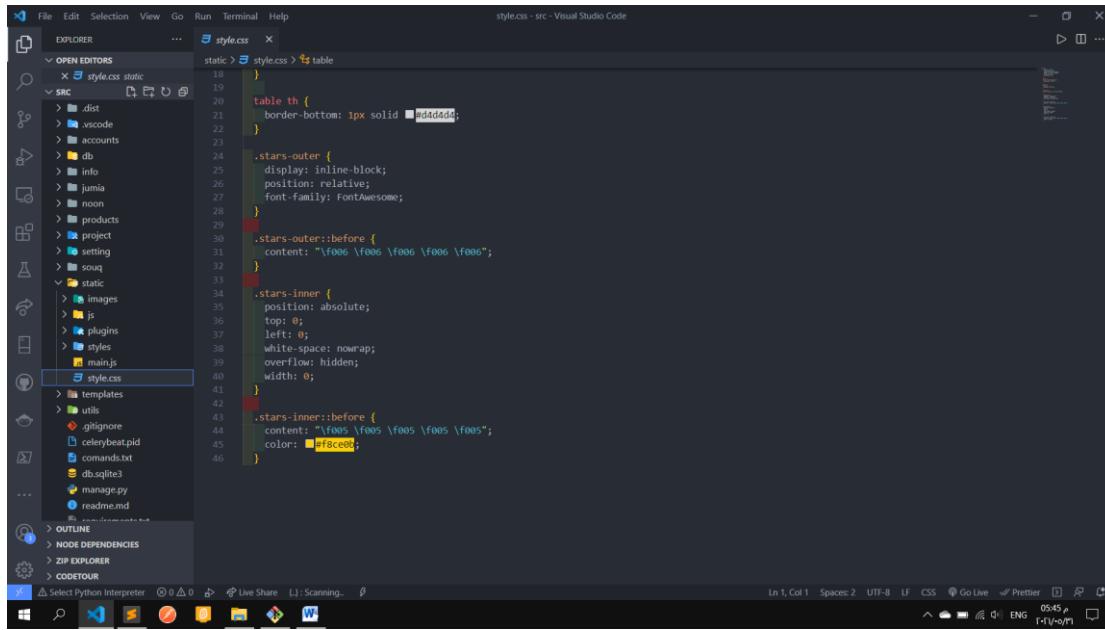
File Explorer:

- src
- dist
- .vscode
- accounts
- db
- info
- junia
- noon
- products
- project
- setting
- souq
- static
- images
- js
- plugins
- styles
- main.js
- style.css
- templates
- utils
- .gitignore
- celerybeat.pid
- commands.txt
- db.sqlite3
- manage.py
- readme.md

Outline Node Dependencies Zip Explorer Codetour

Select Python Interpreter Live Share L: Scanning...

Ln 1, Col 1 Spaces: 2 UTF-8 LF CSS Go Live Prettier



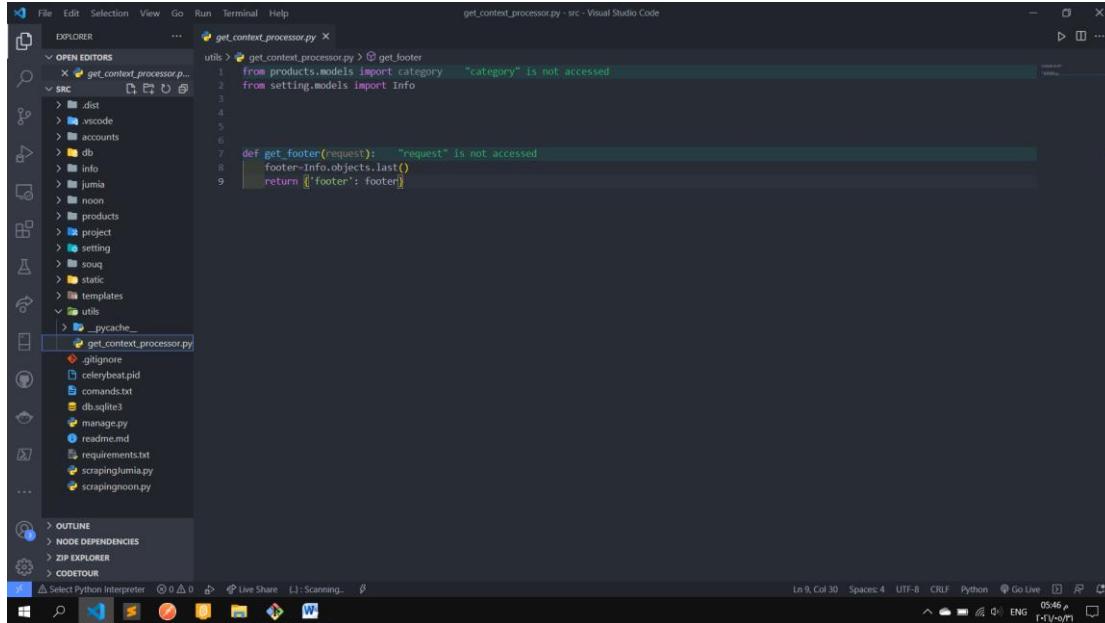
```

static > style.css > table
18 }
19
20 table th {
21   border-bottom: 1px solid #ddd;
22 }
23
24 .stars-outer {
25   display: inline-block;
26   position: relative;
27   font-family: FontAwesome;
28 }
29
30 .stars-outer::before {
31   content: "\f000 \f006 \f006 \f006 \f006";
32 }
33
34 .stars-inner {
35   position: absolute;
36   top: 0;
37   left: 0;
38   white-space: nowrap;
39   overflow: hidden;
40   width: 0;
41 }
42
43 .stars-inner::before {
44   content: "\f005 \f005 \f005 \f005 \f005";
45   color: #f0c6e9;
46 }

```

Utils:

- get_context_processor.py



```

utils > get_context_processor.py > get_footer
1  from products.models import category  "category" is not accessed
2  from setting.models import Info
3
4
5
6
7  def get_footer(request):  "request" is not accessed
8    footer=Info.objects.last()
9    return [{"footer": footer}]

```

- o Manage

```

1 #!/usr/bin/env python
2 """
3     django's command-line utility for administrative tasks.
4
5     def main():
6         """Run administrative tasks."""
7         os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'project.settings')
8         try:
9             from django.core.management import execute_from_command_line
10            execute_from_command_line(sys.argv)
11        except ImportError as exc:
12            raise ImportError(
13                "Couldn't import Django. Are you sure it's installed and "
14                "available on your PYTHONPATH environment variable? Did you "
15                "forget to activate a virtual environment?"
16            )
17        if __name__ == '__main__':
18            main()
19
20
21 if __name__ == '__main__':
22     main()

```

- o Requirements

```

1 amqp==2.6.1
2 appdirs==1.4.4
3 asgiref==3.3.1
4 autopenp8==1.5.6
5 beautifulsoup4==4.9.3
6 billiard==3.6.4.0
7 black==20.8.0b1
8 bs4==0.0.1
9 celery==4.4.7
10 certifi==2020.12.5
11 cffi==1.14.5
12 chardet==4.0.0
13 click==7.1.2
14 click-didyoumean==0.0.3
15 click-plugins==1.1.1
16 click-repl==0.1.6
17 cssselect==1.1.0
18 Django==3.1.7
19 django-bootstrap4==3.0.1
20 django-celery-beat==2.7.0
21 django-charts==2.2.1
22 django-filter==2.4.0
23 django-flower==1.0.0
24 django-jinja==2.7.0
25 django-mathfilters==1.0.0
26 django-model-utils==4.1.1
27 django-notifications-hq==1.6.0
28 django-timezone-field==4.1.2
29 fake-useragent==0.1.11
30 flower==0.9.7
31 gevent==21.1.2
32 greenlet==1.1.0
33 humanize==0.5.1
34 idna==2.10
35 jellyfish==0.8.2
36 Jinja2==2.10.1
37 joblib==0.14.1
38 isomorphic==3.1.0

```

APC

```
File Edit Selection View Go Run Terminal Help
requirements.txt - src - Visual Studio Code

EXPLORER ... requirements.txt
OPEN EDITORS
requirements.txt
38 jsonfield==3.1.0
39 kombu==4.6.11
40 lxml==4.6.3
41 MarkupSafe==2.0.1
42 mypy_extensions==0.4.3
43 numpy==1.20.2
44 pandas==1.2.4
45 parsel==1.19.0
46 pathspec==0.8.1
47 Pillow==8.2.0
48 plumbum==1.7.0
49 prometheus-client==0.8.0
50 prompt_toolkit==3.6.16
51 psycopg2==2.8.6
52 pycodestyle==2.7.0
53 pycparser==2.20
54 pyee==8.1.0
55 pypldml32==223
56 pyppeteer==0.7.5
57 pyquery==1.4.3
58 python-crontab==2.5.1
59 python-dateutil==2.8.1
60 pytz==2021.1
61 pywin32==300
62 recordlinkage==0.14
63 redis==3.5.3
64 regex==2021.3.17
65 requests==2.25.1
66 requests-html==0.18.0
67 rpyc==5.6.1
68 scikit-learn==0.24.1
69 scipy==1.6.2
70 six==1.15.0
71 soupsieve==2.0.1
72 sqlalchemy==1.4.1
73 superset==1.2.1.post1
74 threadpoolctl==2.1.0
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows a tree view of files and folders. The 'SRC' folder is expanded, containing 'accounts', 'db', 'info', 'jumia', 'noon', 'products', 'project', 'setting', 'souq', 'static', 'templates', 'utils', and several Python files like 'celerybeat.pid', 'commands.txt', 'db.sqlite3', 'manage.py', and 'readme.md'. A 'requirements.txt' file is also listed under 'SRC'.
- Editor:** The main area displays the contents of the 'requirements.txt' file. The file lists various Python packages and their versions:

```
pywin32==3.0
recordlinkage==0.14
redis==3.5.3
regex==2021.3.17
requests==2.25.1
requests-html==0.16.0
rpyc==5.6.1
scikit-learn==0.24.1
scipy==1.6.2
six==1.15.0
soupieve==2.2.1
sqlparse==0.4.1
swapper==1.1.2.post1
threadpoolctl==2.1.0
toml==0.10.2
tornado==6.1
tqdm==4.59.0
typed-ast==1.4.2
typing-extensions==3.7.4.3
urllib3==1.26.4
vine==1.3.0
wlib==1.22.0
width==0.2.5
websockets==8.1
zope.event==4.5.0
zope.interface==5.4.0
```
- Status Bar:** At the bottom, it shows the status bar with 'File 1, Col 1', 'Spaces: 4', 'UTF-8', 'LF', 'pip requirements', 'Go Live', and other system icons.

- Scraping [Jumia]

```

File Edit Selection View Go Run Terminal Help
scrapingjumia.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ...
scrapingjumia.py > ...
scrapingjumia.py > ...
1 import requests Import "requests" could not be resolved from source
2 import os Import "django" could not be resolved from source
3 import django Import "django" could not be resolved from source
4 import sys "sys" is not accessed
5
6 os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'project.settings')
7 django.setup()
8
9 from jumia.models import Jumia
from products.models import category
10
11 Categories = [
12     # [id], [url], [verbose]
13     # [id]: 1, [url]: "playstation-5-consoles", [verbose]: "Games Console",
14     # [id]: 2, [url]: "playstation-5-accessories", [verbose]: "Games Console Accessories",
15     # [id]: 3, [url]: "vietnam-reality-phones-tablets", [verbose]: "VR"),
16     # [id]: 4, [url]: "mobile-phones", [verbose]: "Mobile Phone"),
17     # [id]: 5, [url]: "laptop-notebooks", [verbose]: "Tablet"),
18     # [id]: 6, [url]: "laptops", [verbose]: "Laptop Notebook"),
19     # [id]: 7, [url]: "computer-networking-solutions", [verbose]: "Network Switch",
20     # [id]: 8, [url]: "routers", [verbose]: "Routers"),
21     # [id]: 9, [url]: "keyboards", [verbose]: "Keyboards"),
22     # [id]: 10, [url]: "computer-components-computer-cases", [verbose]: "Computer Casing"),
23     # [id]: 11, [url]: "memory-cards", [verbose]: "Memory Cards"),
24     # [id]: 12, [url]: "mobile-phone-accessories-cables", [verbose]: "Cables"),
25     # [id]: 13, [url]: "laptop-chargers-adapters", [verbose]: "Laptop Charger"),
26     # [id]: 14, [url]: "mobile-phone-bluetooth-headsets", [verbose]: "Headphones and Headsets"),
27     # [id]: 15, [url]: "power-banks", [verbose]: "Power Banks"),
28     # [id]: 16, [url]: "tablet-accessories", [verbose]: "Tablet Accessories"),
29     # [id]: 17, [url]: "smart-watches", [verbose]: "Smart Watches"),
30 ]
31
32 headers = {
33     'authority': 'www.jumia.com.eg',
34     'pragma': 'no-cache',
35     'cache-control': 'no-cache',
36     'accept': 'application/json',
37     'user-agent': 'Mozilla/5.0 (Linux; Android 8.0.0; Pixel 2 XL Build/OPD1.170816.004) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.6',
38     'sec-fetch-site': 'same-origin',
39     'sec-fetch-mode': 'cors',
40     'sec-fetch-dest': 'empty',
41     'referer': 'https://www.jumia.com.eg/laptops',
42     'accept-language': 'en-US;q=0.9,ar;q=0.8',
43 }
44 def getCategory(url="playstation-5-consoles", page=1):
45     categori = f"https://www.jumia.com.eg/{url}/page-{page}"
46     response = requests.request("GET", categori, headers=headers).json()
47     if response['viewData']['viewData'] == "URL is not accessed":
48         if not "pagination" in response['viewData']:
49             return None
50         else:
51             x=response['viewData']['products']
52             return(x)
53
54     # url = "https://www.jumia.com.eg/mobile-phones?page=1"
55     # response = requests.request("GET", url, headers=headers).json()
56     # x=response['viewData']['products']
57
58     # for items in x:
59     #     # sha-items["sha"]
60     #     # title-items["name"]
61     #     # image-url-items["image"]
62     #     # primary_link-items["url"]
63     #     # lastprice-items["prices"]["rawPrice"]
64     #     # manufacturer-items["brand"]
65     #     # a_fullDescription-items["get>Description(primary_link)"]
66     #     # a_fullDescription["get>Description(primary_link)"]
67
68

```

```

File Edit Selection View Go Run Terminal Help
scrapingjumia.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ...
scrapingjumia.py > ...
scrapingjumia.py > ...
32 headers = {
33     'authority': 'www.jumia.com.eg',
34     'pragma': 'no-cache',
35     'cache-control': 'no-cache',
36     'accept': 'application/json',
37     'user-agent': 'Mozilla/5.0 (Linux; Android 8.0.0; Pixel 2 XL Build/OPD1.170816.004) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.6',
38     'sec-fetch-site': 'same-origin',
39     'sec-fetch-mode': 'cors',
40     'sec-fetch-dest': 'empty',
41     'referer': 'https://www.jumia.com.eg/laptops',
42     'accept-language': 'en-US;q=0.9,ar;q=0.8',
43 }
44 def getCategory(url="playstation-5-consoles", page=1):
45     categori = f"https://www.jumia.com.eg/{url}/page-{page}"
46     response = requests.request("GET", categori, headers=headers).json()
47     if response['viewData']['viewData'] == "URL is not accessed":
48         if not "pagination" in response['viewData']:
49             return None
50         else:
51             x=response['viewData']['products']
52             return(x)
53
54     # url = "https://www.jumia.com.eg/mobile-phones?page=1"
55     # response = requests.request("GET", url, headers=headers).json()
56     # x=response['viewData']['products']
57
58     # for items in x:
59     #     # sha-items["sha"]
60     #     # title-items["name"]
61     #     # image-url-items["image"]
62     #     # primary_link-items["url"]
63     #     # lastprice-items["prices"]["rawPrice"]
64     #     # manufacturer-items["brand"]
65     #     # a_fullDescription-items["get>Description(primary_link)"]
66     #     # a_fullDescription["get>Description(primary_link)"]
67
68

```

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure with files like `scrapingjumia.py`, `scrapingjumia.py` (open in editor), `db.sqlite3`, `manage.py`, `requirements.txt`, and `scrapingroot.py`.
- Code Editor (Center):** Displays the `scrapingjumia.py` file containing Python code for web scraping. The code includes functions for saving data to a database and handling category pages.
- Terminal (Bottom):** Shows the command `python3 manage.py runserver` being run in the terminal.
- Status Bar (Bottom):** Shows the current file is `scrapingjumia.py`, the line number is 1, column 1, and other status indicators like spaces, tabs, and encoding.

❖ Scraping [Noon]

Templates:

- o Base.html

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows the project structure. The file `base.html` is currently selected in the **OPEN EDITORS** section.
- Editor:** The main area displays the content of `base.html`. The code includes meta tags for static files, fontawesome, and various CSS files from the `owlcarousel2` plugin.
- Status Bar:** At the bottom right, it shows the text "0556 ENG".

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure with files like .git, .vscode, accounts, db, info, jumia, noon, products, project, setting, souq, static, templates, and base.html.
- Editor (Center):** Displays the content of the `base.html` template file. The code includes HTML structure, CSS classes, and Jinja2 templating syntax. A cursor is positioned on the line containing the condition `{% if user.is_authenticated %}`.
- Bottom Status Bar:** Shows the status bar with "Select Python Interpreter", file counts (0:0), "Live Share", "L: Scanning...", "Preview Available", and file path "base.html - src - Visual Studio Code".
- Bottom Icons:** Includes icons for file operations, search, and other development tools.

```

<!-- Logo -->
<div class="col-lg-2 col-sm-3 col-3 order-1">
  <div class="logo_container">
    <div class="logo"><a href="/">{{ footer.name }}</a></div>
  </div>
</div>

<!-- Search -->
<div class="col-lg-6 col-12 order-lg-2 order-3 text-lg-left text-right">
  <div class="header_search">
    <div class="header_search_content">
      <div class="header_search_form_container">
        <form action="{% url 'products:search_results' %}" class="header_search_form clearfix">
          <input type="search" required="required" name="q" class="header_search_input" placeholder="Search for products..." style="width: 100%; height: 100%; border: none; border-radius: 0; padding: 0; margin: 0; font-size: 1em; font-weight: bold; font-family: inherit; color: inherit; background-color: transparent; transition: all 0.3s ease;"/>
        <div class="custom_dropdown" style="display: none; position: absolute; top: -10px; left: 0; width: 100%; z-index: 1; border: 1px solid #ccc; border-radius: 0; background-color: white; padding: 5px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
          <div class="custom_dropdown_list" style="margin-bottom: 5px; border-bottom: 1px solid #ccc; padding-bottom: 5px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
            <ul style="list-style-type: none; padding-left: 0; margin: 0; border: none; border-collapse: collapse; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="#" class="clic" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>All Categories</a>
              </li>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="#" class="clic" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>Computers</a>
              </li>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="#" class="clic" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>Laptops</a>
              </li>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="#" class="clic" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>Cameras</a>
              </li>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="#" class="clic" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>Hardware</a>
              </li>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="#" class="clic" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>Smartphones</a>
              </li>
            </ul>
          </div>
        </div>
        <button type="submit" class="header_search_button trans_300" value="Submit"> Submit
      </div>
    </div>
  </div>
</div>

```

```

<!-- Main navigation -->
<nav class="main_nav">
  <div class="container">
    <div class="row">
      <div class="col">
        <div>
          <!-- Main Nav Menu -->
          <div class="main_nav_menu ml-4" style="display: flex; justify-content: space-around; align-items: center; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
            <ul class="standard_dropdown main_nav_dropdown" style="display: flex; flex-flow: row; justify-content: space-around; align-items: center; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
              <li><a href="/accounts/login/"><i class="fas fa-chevron-down" style="font-size: 1em; vertical-align: middle; border: none; border-radius: 50%; background-color: transparent; transition: all 0.3s ease;*></i></a></li>
              <li><a href="{% url 'products:productname' %}"><i class="fas fa-chevron-down" style="font-size: 1em; vertical-align: middle; border: none; border-radius: 50%; background-color: transparent; transition: all 0.3s ease;*></i></a></li>
            </ul>
            <ul style="list-style-type: none; padding-left: 0; margin: 0; border: none; border-collapse: collapse; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="blog.html" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>Log in</a>
              </li>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="{% url 'setting:contact' %}" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>Contact</a>
              </li>
              <li style="margin-bottom: 2px; border-bottom: 1px solid #ccc; padding-bottom: 2px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
                <a href="{% url 'setting:contact' %}" style="color: inherit; text-decoration: none; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>Settings</a>
              </li>
            </ul>
          </div>
        </div>
      </div>
    </div>
  </div>
</nav>

```

```

<div class="col-lg-2 footer_col">
    <div class="footer_column footer_contact">
        <div class="logo_container">
            <div class="logo"><a href="/">{{footer.name}}</a></div>
        </div>
        <!-- <div class="footer_title">Find it Fast</div> -->
        <!-- <div class="footer_phone">{{footer.phone_number}}</div> -->
        <div class="footer_contact_text">
            <!-- <p>{{footer.adress}}</p> -->
        </div>
    </div>
    <div class="footer_social">
        <ul>
            <li><a href="{{footer.fb_link}}><i class="fab fa-facebook-f"></i></a></li>
            <li><a href="{{footer.twitter_link}}><i class="fab fa-twitter"></i></a></li>
            <li><a href="{{footer.instagram_link}}><i class="fab fa-instagram"></i></a></li>
        </ul>
    </div>
</div>
<div class="col-lg-8 offset-lg-2">
    <div class="footer_column">
        <div class="footer_title">Find it Fast</div>
        <ul class="footer_list" style="columns: 2;">
            {% for cat in Categories %}
                <li><a href="/product/?category={{cat}}>{{(cat)}}</a></li>
            {% endfor %}
        </ul>
    </div>
</div>

```

```

<div class="col-lg-8 offset-lg-2">
    <div class="footer_column">
        <div class="footer_title">Find it Fast</div>
        <ul class="footer_list" style="columns: 2;">
            {% for cat in Categories %}
                <li><a href="/product/?category={{cat}}>{{(cat)}}</a></li>
            {% endfor %}
        </ul>
    </div>
</div>
</div>
</div>
<div class="copyright">
    <div class="container">
        <div class="row">
            <div class="col">
                <div class="copyright_container d-flex flex-sm-row flex-column align-items-center justify-content-start">
                    <div class="copyright_content"><!-- Link back to colorlib can't be removed. Template is licensed under CC BY 3.0. --&gt;
                        Copyright ©&lt;script&gt;document.write(new Date().getFullYear())&lt;/script&gt; All rights reserved &lt;/a&gt;
                    &lt;/div&gt;
                    &lt;!-- Link back to colorlib can't be removed. Template is licensed under CC BY 3.0. --&gt;
                &lt;/div&gt;
            &lt;/div&gt;
        &lt;/div&gt;
    &lt;/div&gt;
&lt;/div&gt;
&lt;div class="logos ml-sm-auto"&gt;
    &lt;ul class="logos_list"&gt;
        &lt;li&gt;&lt;a href="#"&gt;&lt;img src="images/logos_1.png" alt=""&gt;&lt;/a&gt;&lt;/li&gt;
        &lt;li&gt;&lt;a href="#"&gt;&lt;img src="images/logos_2.png" alt=""&gt;&lt;/a&gt;&lt;/li&gt;
        &lt;li&gt;&lt;a href="#"&gt;&lt;img src="images/logos_3.png" alt=""&gt;&lt;/a&gt;&lt;/li&gt;
    &lt;/ul&gt;
&lt;/div&gt;
</pre>

```

APC

The screenshot shows the Visual Studio Code interface with the following details:

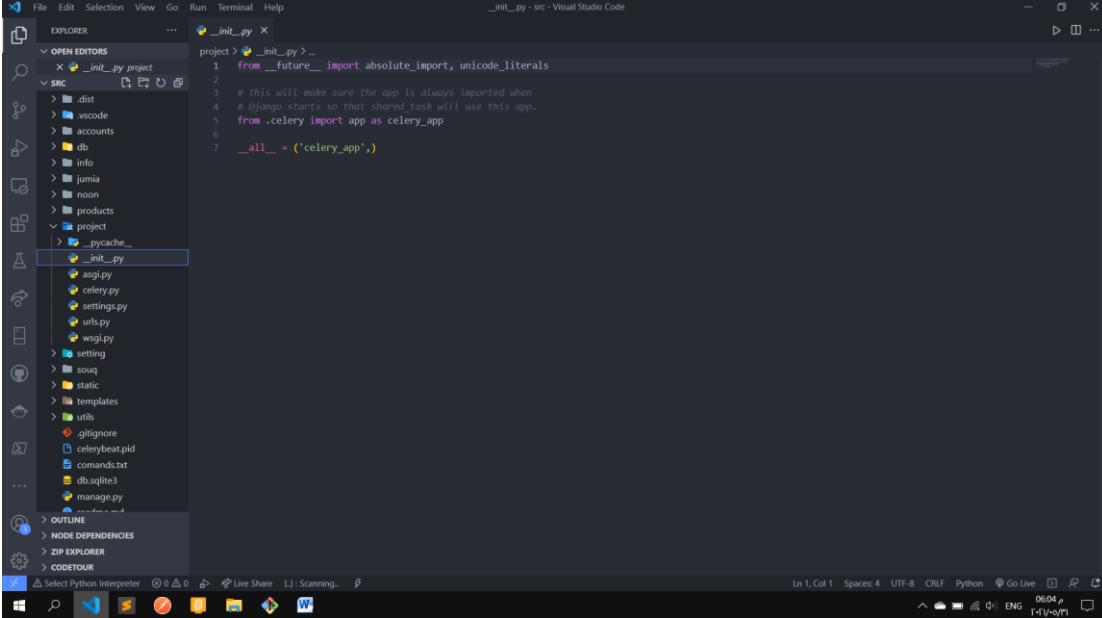
- File Explorer (Left):** Shows the project structure with files like `base.html`, `utils.py`, `requirements.txt`, and `manage.py`.
- Open Editors (Top):** Displays the current file, `base.html`.
- Code Editor (Main Area):** Contains the HTML code for the `base.html` template. The code includes a header section with a logo and navigation links, followed by a main content area with a placeholder `<div>{{content|safe}}</div>`. Below this, there's a footer section with social media links and a copyright notice.
- Bottom Status Bar:** Shows the current file path (`base.html - src - Visual Studio Code`), line number (Ln 208), column number (Col 19), tab size (Tab Size: 4), and other status indicators.

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** base.html - src - Visual Studio Code.
- Left Sidebar (Explorer):**
 - OPEN EDITORS: base.html x
 - SRC
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - static
 - templates
 - base.html x
 - utils
 - .gitignore
 - celerybeat.pid
 - commands.txt
 - db.sqlite3
 - manage.py
 - readme.md
 - requirements.txt
 - scrapinglumia.py
 - scrapingoony.py
- Bottom Status Bar:** Ln 268, Col B | Tab Size: 4 | UTT-B | LF | Django Template | Go Live | Prettier | 0602 ENG | T-1/v0/0

Project:

1. __init__.py



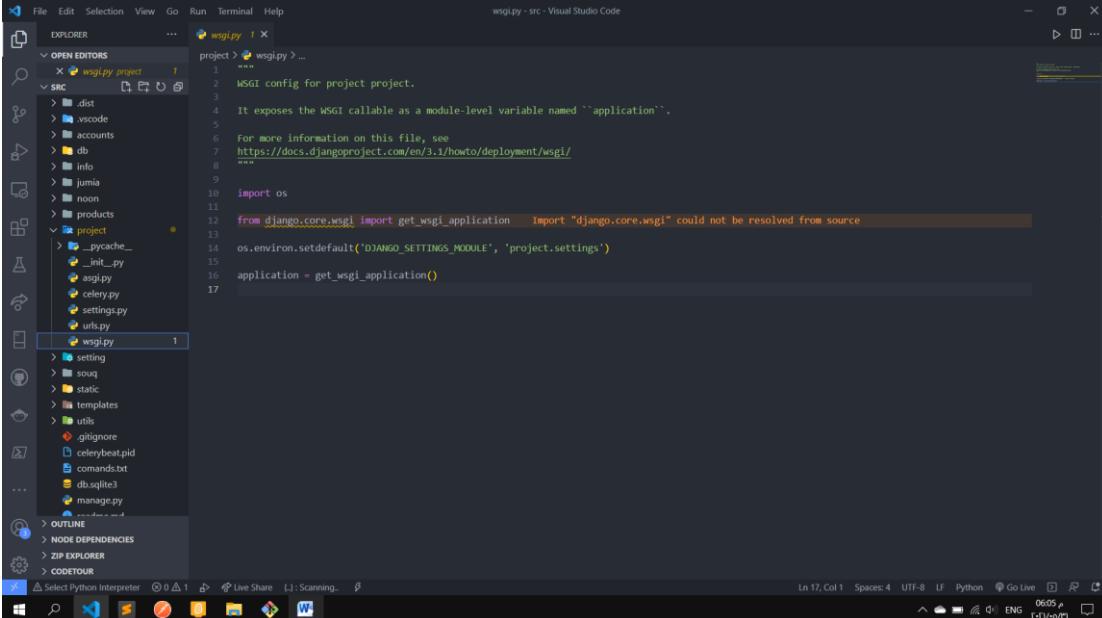
```

project > __init__.py > ...
1  from __future__ import absolute_import, unicode_literals
2
3  # This will make sure the app is always imported when
4  # Django starts so that shared_task will use this app.
5  from .celery import app as celery_app
6
7  __all__ = ('celery_app',)

```

The screenshot shows the Visual Studio Code interface with the project structure in the Explorer sidebar. The current file being edited is `__init__.py`. The code itself defines a `celery_app` Celery application object.

2. wsgi.py



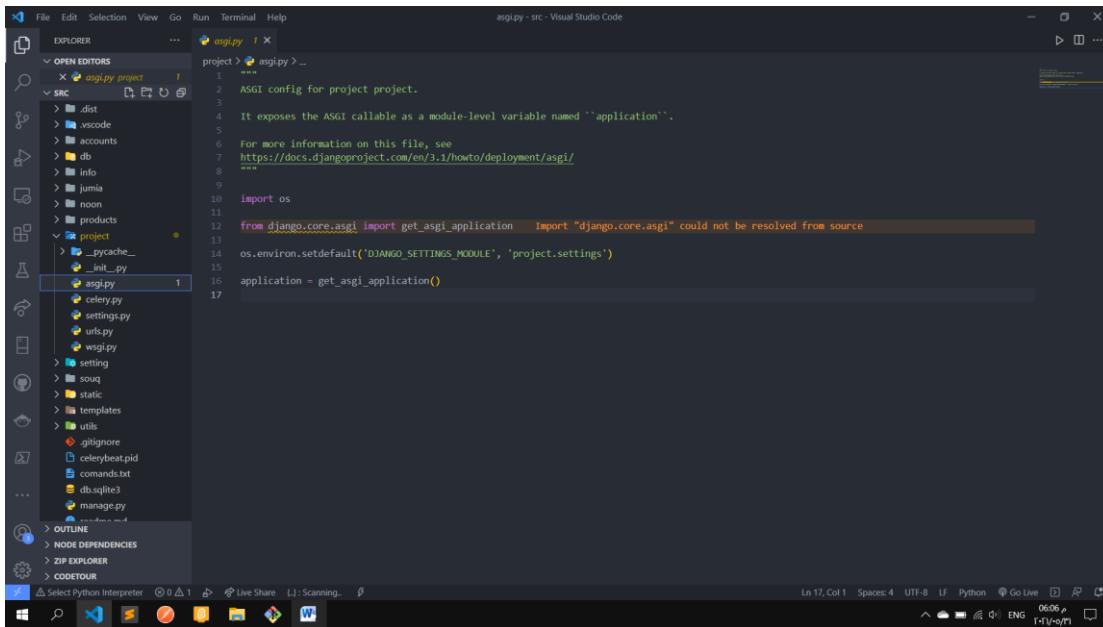
```

project > wsgi.py > ...
1  """
2  WSGI config for project project.
3
4  It exposes the WSGI callable as a module-level variable named ``application``.
5
6  For more information on this file, see
7  https://docs.djangoproject.com/en/3.1/howto/deployment/wsgi/
8  """
9
10 import os
11
12 from django.core.wsgi import get_wsgi_application  Import "django.core.wsgi" could not be resolved from source
13
14 os.environ.setdefault("DJANGO_SETTINGS_MODULE", 'project.settings')
15
16 application = get_wsgi_application()
17

```

The screenshot shows the Visual Studio Code interface with the project structure in the Explorer sidebar. The current file being edited is `wsgi.py`. The code imports `get_wsgi_application` from `django.core.wsgi` and sets the environment variable `DJANGO_SETTINGS_MODULE` to `'project.settings'`.

3. asgi.py



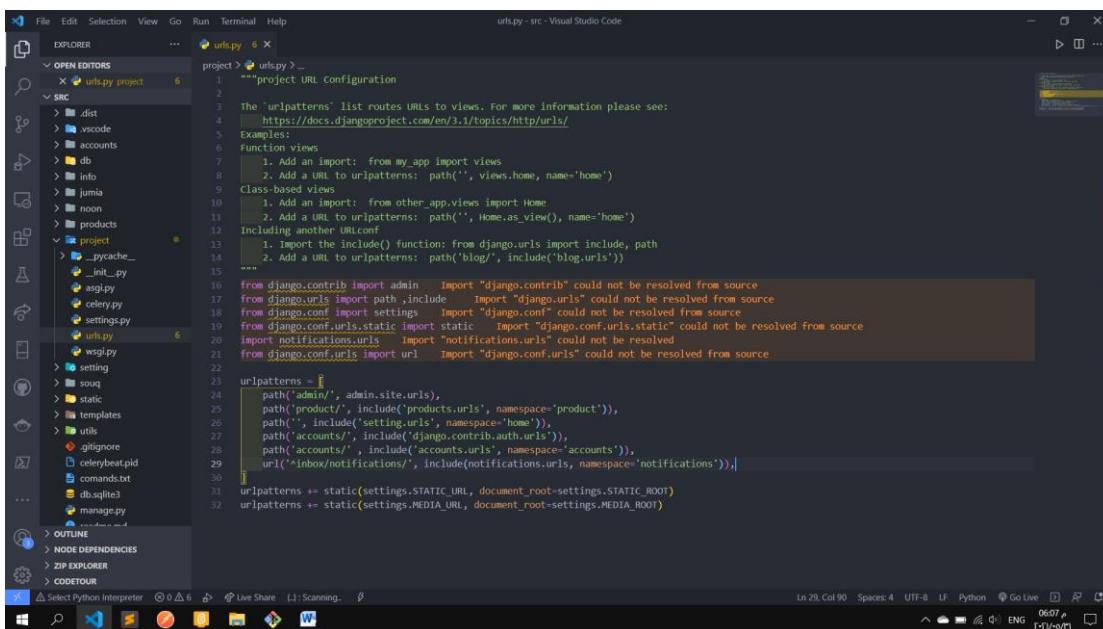
The screenshot shows the Visual Studio Code interface with the file `asgi.py` open in the editor. The code defines an ASGI callable named `application` using the `get_asgi_application` function from `django.core.asgi`. It also sets the environment variable `DJANGO_SETTINGS_MODULE` to `'project.settings'`.

```

1  """
2  ASGI config for project project.
3
4  It exposes the ASGI callable as a module-level variable named ``application``.
5
6  For more information on this file, see
7  https://docs.djangoproject.com/en/3.1/howto/deployment/asgi/
8  """
9
10 import os
11
12 from django.core.asgi import get_asgi_application  Import "django.core.asgi" could not be resolved from source
13
14 os.environ.setdefault("DJANGO_SETTINGS_MODULE", 'project.settings')
15
16 application = get_asgi_application()
17

```

4.Urls



The screenshot shows the Visual Studio Code interface with the file `urls.py` open in the editor. The code defines URL patterns for the project, including paths for admin, products, accounts, settings, notifications, and static files.

```

1  """
2  project > urls.py > ...
3  """project URL Configuration
4
5  The 'urlpatterns' list routes URLs to views. For more information please see:
6  https://docs.djangoproject.com/en/3.1/topics/http/urls/
7
8  Examples:
9  Function views
10    1. Add an import: from my_app import views
11    2. Add a URL to urlpatterns: path('', views.home, name='home')
12 Class-based views
13    1. Add an import: from other_app.views import Home
14    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
15 Including another URLconf
16    1. Import the include() function: from django.urls import include, path
17    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
18
19 from django.contrib import admin  Import "django.contrib" could not be resolved from source
20 from django.urls import path, include  Import "django.urls" could not be resolved from source
21 from django.conf import settings  Import "django.conf" could not be resolved from source
22 from django.conf.urls.static import static  Import "django.conf.urls.static" could not be resolved from source
23 import notifications.urls  Import "notifications.urls" could not be resolved from source
24 from django.conf.urls import url  Import "django.conf.urls" could not be resolved from source
25
26 urlpatterns = [
27     path('admin/', admin.site.urls),
28     path('product/', include('products.urls', namespace='product')),
29     path('', include('setting.urls', namespace='home')),
30     path('accounts/', include('django.contrib.auth.urls')),
31     path('accounts/', include('accounts.urls', namespace='accounts')),
32     url(r'^inbox/notifications/', include(notifications.urls, namespace='notifications')),
33 ]
34
35 urlpatterns += static(settings.STATIC_URL, document_root=settings.STATIC_ROOT)
36
37 urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)

```

5. Celery

```

File Edit Selection View Go Run Terminal Help
celery.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ...
project > celery.py ...
1  from __future__ import absolute_import, unicode_literals
2
3  import os
4
5  from celery import Celery  Import "celery" could not be resolved
6
7  # set the default Django settings module for the "celery" program.
8  os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'project.settings')
9
10 app = Celery('celery_app')
11
12 # Using a string here means the worker doesn't have to serialize
13 # the configuration object to child processes.
14 # - namespace='CELERY' means all Celery-related configuration keys
15 #   should have a CELERY prefix.
16 app.config_from_object('django.conf:settings', namespace='CELERY')
17
18 # Load task modules from all registered Django app configs.
19 app.autodiscover_tasks()

```

File Explorer showing project structure:

- OPEN EDITORS: urls.py (6), celery.py (1)
- SRC:
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - pycache_
 - __init__.py
 - celery.py
 - celery.py
 - settings.py
 - urls.py
 - wsgi.py
 - setting
 - souq
 - static
 - templates
 - utils
 - .gitignore
 - celerybeat.pid
 - commands.txt
 - db.sqlite3
- OUTLINE
- NODE DEPENDENCIES
- ZIP EXPLORER
- CODETOUR

6. Settings

```

File Edit Selection View Go Run Terminal Help
settings.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ...
project > settings.py ...
1 """
2 Django settings for project project.
3
4 Generated by 'django-admin startproject' using Django 3.1.7.
5
6 For more information on this file, see
7 https://docs.djangoproject.com/en/3.1/topics/settings/
8
9 For the full list of settings and their values, see
10 https://docs.djangoproject.com/en/3.1/ref/settings/
11
12
13 from pathlib import Path
14
15 # Build paths inside the project like this: BASE_DIR / 'subdir'.
16 BASE_DIR = Path(__file__).resolve().parent.parent
17
18
19 # Quick-start development settings - unsuitable for production
20 # See https://docs.djangoproject.com/en/3.1/howto/deployment/checklist/
21
22 # SECURITY WARNING: keep the secret key used in production secret!
23 SECRET_KEY = 'yf-g-hovrzb6t(*d_r%filcanzus#nvc175o=1j7hk#'
24
25 # SECURITY WARNING: don't run with debug turned on in production!
26 DEBUG = True
27
28 ALLOWED_HOSTS = []
29
30
31 # Application definition
32
33 INSTALLED_APPS = [
34     'django.contrib.admin',
35     'django.contrib.auth',
36     'django.contrib.contenttypes',
37     'django.contrib.sessions',
38     'django.contrib.messages',
39 ]

```

File Explorer showing project structure:

- OPEN EDITORS: settings.py (1)
- SRC:
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - pycache_
 - __init__.py
 - celery.py
 - celery.py
 - settings.py
 - urls.py
 - wsgi.py
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 - souq
 - static
 - templates
 - utils
 - .gitignore
 - celerybeat.pid
 - commands.txt
 - db.sqlite3
- OUTLINE
- NODE DEPENDENCIES
- ZIP EXPLORER
- CODETOUR

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File Edit Selection View Go Run Terminal Help
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> products
> project
> __pycache__
> _init__.py
> asgi.py
> celery.py
> settings.py
> urls.py
> wsgi.py
> setting
> souq
> static
> templates
> utils
> ignore
> celerybeat.pid
> commands.txt
> db.sqlite3
> manage.py
> ...
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
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```

```

settings.py - src - Visual Studio Code

32 INSTALLED_APPS = [
33     'django.contrib.admin',
34     'django.contrib.auth',
35     'django.contrib.contenttypes',
36     'django.contrib.sessions',
37     'django.contrib.messages',
38     'django.contrib.staticfiles',
39
40     'souq',
41     'products',
42     'jumia',
43     'noon',
44     'bootstrap4',
45     'django_filters',
46     'chartjs',
47     'setting',
48     'mathfilters',
49     'accounts',
50     'notifications',
51     'django_celery_beat',
52
53 ]
54
55
56 MIDDLEWARE = [
57     'django.middleware.security.SecurityMiddleware',
58     'django.contrib.sessions.middleware.SessionMiddleware',
59     'django.middleware.common.CommonMiddleware',
60     'django.middleware.csrf.CsrfViewMiddleware',
61     'django.contrib.auth.middleware.AuthenticationMiddleware',
62     'django.contrib.messages.middleware.MessageMiddleware',
63     'django.middleware.clickjacking.XFrameOptionsMiddleware',
64 ]
65
66 ROOT_URLCONF = 'project.urls'
67
68 TEMPLATES = [
69     {
70         'BACKEND': 'django.template.backends.django.DjangoTemplates',
71         'DIRS': ['templates'],
72         'APP_DIRS': True,
73         'OPTIONS': {
74             'context_processors': [
75                 'django.template.context_processors.debug',
76                 'django.template.context_processors.request',
77                 'django.contrib.auth.context_processors.auth',
78                 'django.contrib.messages.context_processors.messages',
79                 'utils.get_context_processor.get_footer'
80             ],
81         },
82     },
83 ]
84
85 WSGI_APPLICATION = 'project.wsgi.application'
86
87
88 LOGOUT_REDIRECT_URL = "/"
89
90 # Database
91 # https://docs.djangoproject.com/en/3.1/ref/settings/#databases
92
93 DATABASES = {
94     'default': {
95         'ENGINE': 'django.db.backends.postgresql_psycopg2',
96         'NAME': 'ASCO',
97         'USER': 'postgres',
98         'PASSWORD': 'data20499',
99         'HOST': '127.0.0.1',
100        'PORT': '5432'
101    }
102}
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APC

```
File Edit Selection View Go Run Terminal Help settings.py - src - Visual Studio Code

EXPLORER ... settings.py x
OPEN EDITORS project 3 settings.py > ...
SRC > dist
  > vscode
  > accounts
    > db
    > info
    > jumia
    > moon
    > products
  > project
    > __pycache__
      __init__.py
    asgi.py
    celery.py
    settings.py
    urls.py
    wsgi.py
  > setting
    > souq
    > static
    > templates
    > utils
      gitignore
      telegraphbeat.pid
      commands.btt
      db.sqlite3
      manage.py
> OUTLINE
> NODE_DEPENDENCIES
> ZIP EXPLORER
> CODETOUR

Select Python Interpreter 0 0 0 Live Share Scanning ...

92 # Database
93 # https://docs.djangoproject.com/en/3.1/ref/settings/#databases
94
95 DATABASES = {
96     'default': {
97         'ENGINE': 'django.db.backends.postgresql_psycopg2',
98         'NAME': 'ABCD',
99         'USER': 'postgres',
100        'PASSWORD': 'danna20499',
101        'HOST': '127.0.0.1',
102        'PORT': '5432'
103    }
104 }
105
106 # Password validation
107 # https://docs.djangoproject.com/en/3.1/ref/settings/#auth-password-validation
108
109 AUTH_PASSWORD_VALIDATORS = [
110     {
111         'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
112     },
113     {
114         'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
115     },
116     {
117         'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
118     },
119     {
120         'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
121     },
122 ]
123
124
125 # Internationalization
126 # https://docs.djangoproject.com/en/3.1/topics/i18n/
127
128

Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live 06:11 PM ENG T-1/VoIP/9
```

Pg Admin:

1. Jumia

Successfully run. Total query runtime: 3 secs 489 msec. 11442 rows affected.

2. Noon

Successfully run. Total query runtime: 615 msec. 1299 rows affected.

3. Souq

The screenshot shows the pgAdmin 4 interface with the 'public.souq' schema selected. The 'Products' table is displayed in the main pane, showing columns: id, title, manufacture, description, img, est, active, and lastprice. The data shows various products like 'Soft Silicone Rubber Case Cover' and 'Sony PlayStation 4 Slim 500 G...'. A message at the bottom right says 'Successfully run. Total query runtime: 3 secs 62 msec. 16312 rows affected.'

	id	title	manufacture	description	img	est	active	lastprice
1	19447	Soft Silicone Rubber Case Cov...	other	em ipsum is s...	https://...	272461422300	true	45000
2	19448	Atari Mario Includes Accessor...	atari	em ipsum is s...	https://...	2725610768758	true	24700
3	19450	Retro Mini TV Handheld Famili...	other	em ipsum is s...	https://...	2724675748202	true	53100
4	19451	Retro Classic Game Console ...	other	em ipsum is s...	https://...	2724615380151	true	58000
5	19452	GameSir V2X AimSwitch Gam...	gamesir	em ipsum is s...	https://...	2725610125148	true	250000
6	19453	Wooden Pattern Decal Skin C...	memoria	em ipsum is s...	https://...	2724209818676	true	19400
7	19457	Console and 2 Controller Doc...	other	em ipsum is s...	https://...	2724297837481	true	49900
8	19458	DELUXE CONSOLE Case Mat...	pdp	em ipsum is s...	https://...	272474891945	true	49900
9	19460	Silicone Cover For Playstation...	other	em ipsum is s...	https://...	2724448204447	true	6900
10	19461	For PlayStation 4 PS4 - 4 Cont...	other	em ipsum is s...	https://...	2724312797121	true	59900
11	19467	Xbox One Wireless Controller	microsoft	em ipsum is s...	https://...	2724285419125	true	70000
12	19468	Sony PlayStation 4 pro 1 TB -...	sony	em ipsum is s...	https://...	2724556199251	true	1050000
13	19469	PVP Station Light 3000	pvp	em ipsum is s...	https://...	2724541600076	true	17200
14	19470	Q6 Handheld Game Console a...	other	em ipsum is s...	https://...	2724710173448	true	19800
15	19472	Sony Playstation 4 Slim 500 G...	sony	em ipsum is s...	https://...	2724669287135	true	680000

4. Category

The screenshot shows the pgAdmin 4 interface with the 'public.category' schema selected. The 'category' table is displayed in the main pane, showing columns: id and sweetName. The data shows categories like 'Games Console', 'Skins Decals', 'VR', 'Mobile Phone', etc. A message at the bottom right says 'Successfully run. Total query runtime: 236 msec. 23 rows affected.'

	id	sweetName
1	1	Games Console
2	2	Games Console Accessories
3	3	Skins Decals
4	4	VR
5	5	Mobile Phone
6	6	Tablet
7	7	Laptop Notebook
8	8	Computers
9	9	Server
10	10	Network Switch
11	11	Routers
12	12	Keyboards
13	13	Computer Casing
14	14	Computer Peripheral
15	15	Cables
16	16	Laptops Phone...

5. Admin Panel

The screenshot shows the Django admin interface with the following details:

- Left sidebar:** Lists various models: Accounts (Profiles), Authentication and Authorization (Groups, Users), Notifications (Notifications), Periodic Tasks (Clocked, CronJobs, Intervals, Periodic tasks, Solar events), Products (Categories), Settings (Info), and SOON (Soups).
- Right sidebar:** Recent actions and My actions (Periodic tasks).
- Bottom:** Windows taskbar with various icons.

6. Notifications

The screenshot shows the Django admin interface for Notifications:

- Left sidebar:** Same as the main dashboard.
- Center:** A table titled "Select notification to change" showing two notifications for the "admin" user at level "info".
- Right sidebar:** Filter options for notifications, including:
 - By level:** All, success, info, warning, error.
 - By unread:** All, Yes, No.
 - By public:** All, Yes, No.
 - By timestamp:** Any date, Today, Past 7 days, This month, This year.
- Bottom:** Windows taskbar.

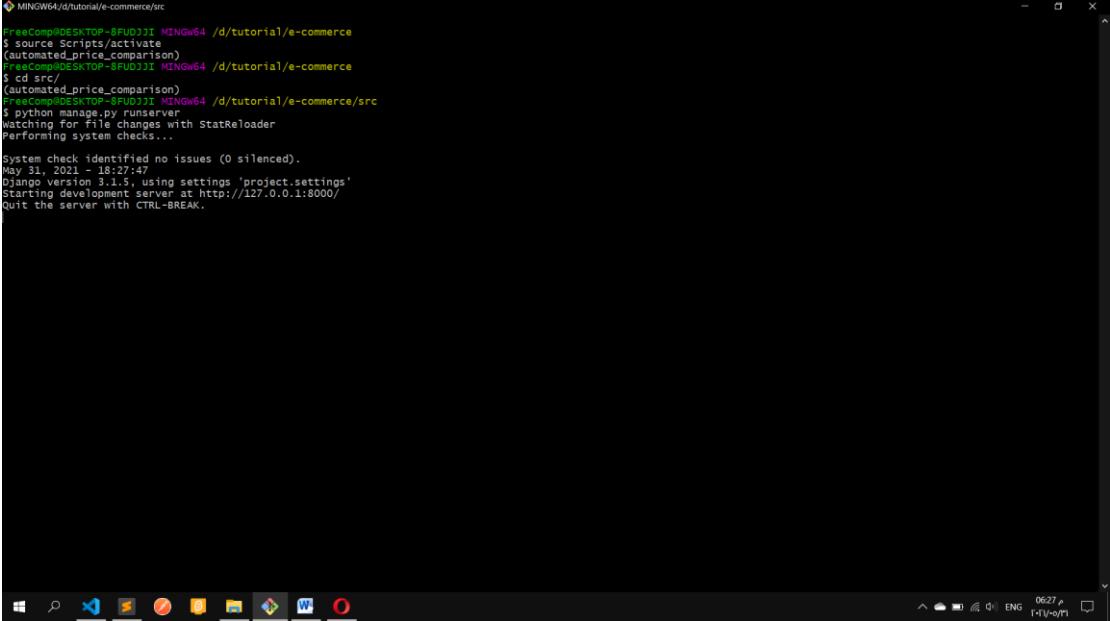
7. Periodic Tasks

PERIODIC TASK	ENABLED	INTERVAL SCHEDULE	START DATETIME	LAST RUN DATETIME	ONE-OFF TASK
task: every 5 seconds	<input checked="" type="checkbox"/>	every 5 seconds	-	May 31, 2021, 11:58 a.m.	<input checked="" type="checkbox"/>
price changing: every 5 seconds	<input checked="" type="checkbox"/>	every 5 seconds	-	May 31, 2021, 11:58 a.m.	<input checked="" type="checkbox"/>
celery.backend_cleanup: 0 4 * * * (m/h/dM/MY/d) UTC	<input checked="" type="checkbox"/>	-	-	-	<input checked="" type="checkbox"/>

8. Intervals

INTERVAL
every 5 seconds
every 5 seconds

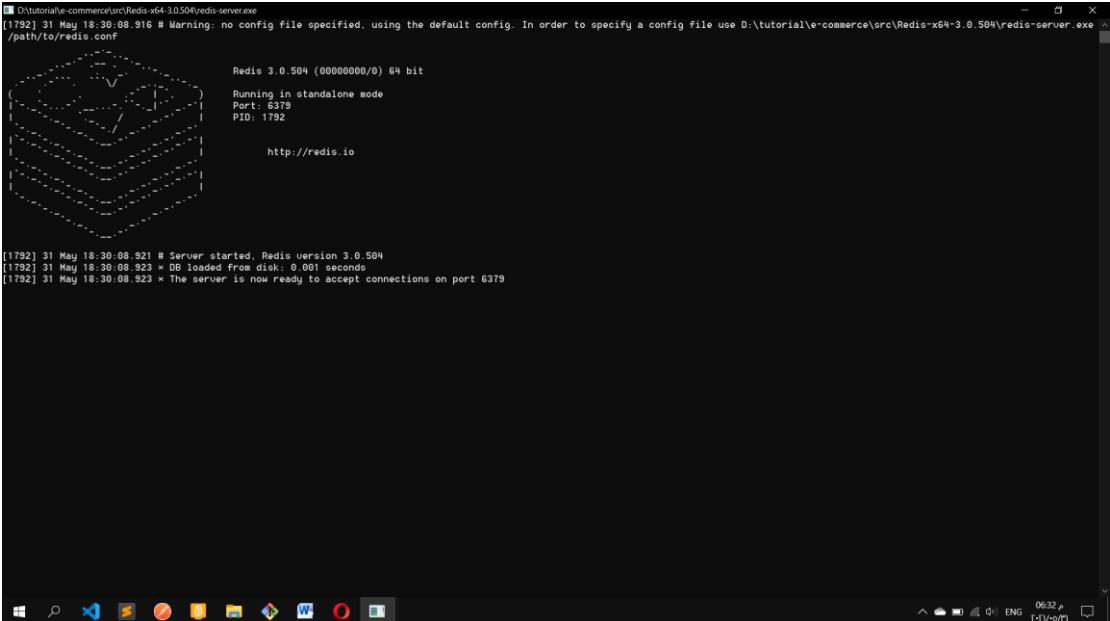
9. Local Server



```
MINGW64:/d/tutorial/e-commerce/src
$ source Scripts/activate
(django) MINGW64:/d/tutorial/e-commerce
$ python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
May 31, 2021 - 18:27:47
Django version 3.1.5, using settings 'project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

10. Redis



```
D:\tutorial\ecommerce\src\Redis-x64-3.0.504\redis-server.exe
[1792] 31 May 18:30:08.916 # Warning: no config file specified, using the default config. In order to specify a config file use D:\tutorial\ecommerce\src\Redis-x64-3.0.504\redis-server.exe /path/to/redis.conf
Redis 3.0.504 (00000000/0) 64 bit
Running in standalone mode
Port: 6379
PID: 1792

http://redis.io

[1792] 31 May 18:30:08.921 * Server started, Redis version 3.0.504
[1792] 31 May 18:30:08.923 * DB loaded from disk: 0 0.01 seconds
[1792] 31 May 18:30:08.923 * The server is now ready to accept connections on port 6379
```

11. Commands

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows a tree view of files and folders. Opened files include `commands.txt`, `vscode`, `accounts`, `db`, `info`, `junita`, `noon`, `products`, `project`, `Redis-64-3.0.504`, `setting`, `souq`, `static`, `templates`, `utils`, `glitterore`, `celerybeat.pid`, `commands.txt`, `db.sqlite3`, `manage.py`, `readme.md`, `requirements.txt`, `scrapinglans.py`, and `scrapingnoon.py`.
- Terminal:** The main area is a terminal window titled "commands.txt - src - Visual Studio Code". It displays the output of the command `flower -A project --port=5555`. The output includes logs from Celery beat and worker processes, and ends with the command `celery -A project purge`.
- Bottom Status Bar:** Shows the current file is `commands.txt`, the line number is 5, the column is 41, and there are 40 selected characters. It also shows spaces: 4, UTF-8, CR/LF, Plain Text, Go Live, and a date/time stamp of 06/31 10:45 AM.