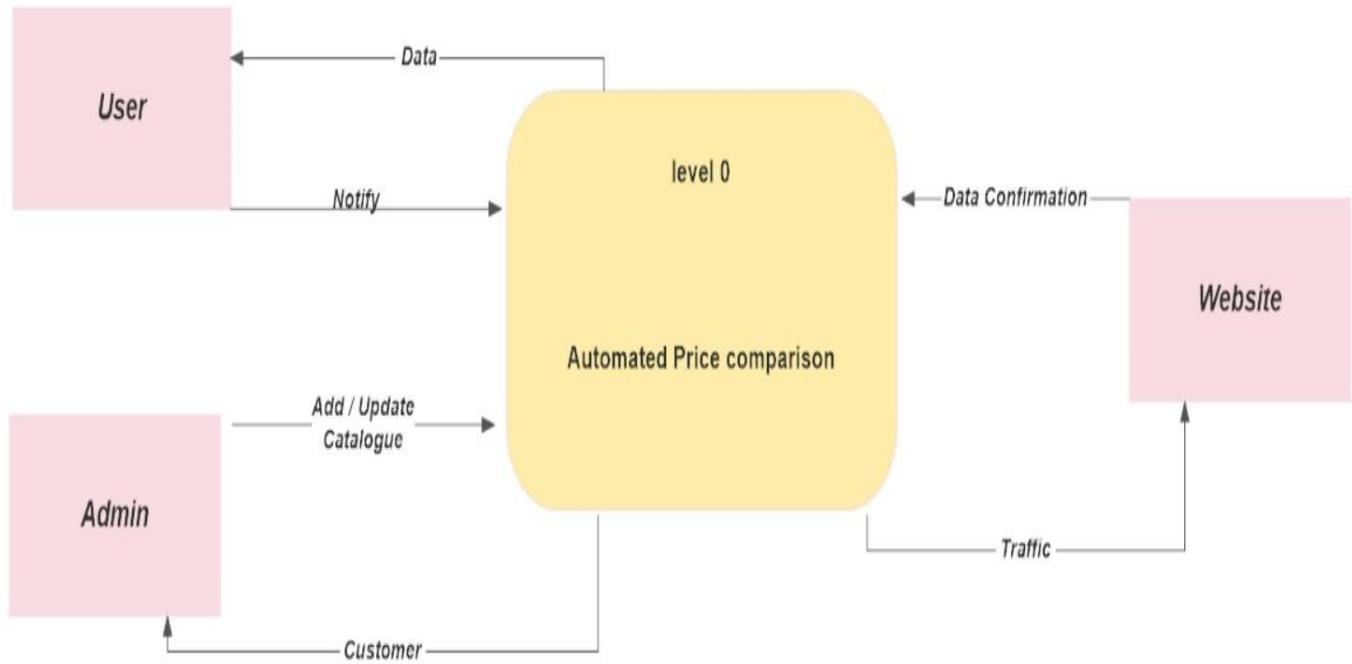


Chapter 3 : Diagrams and Screens

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

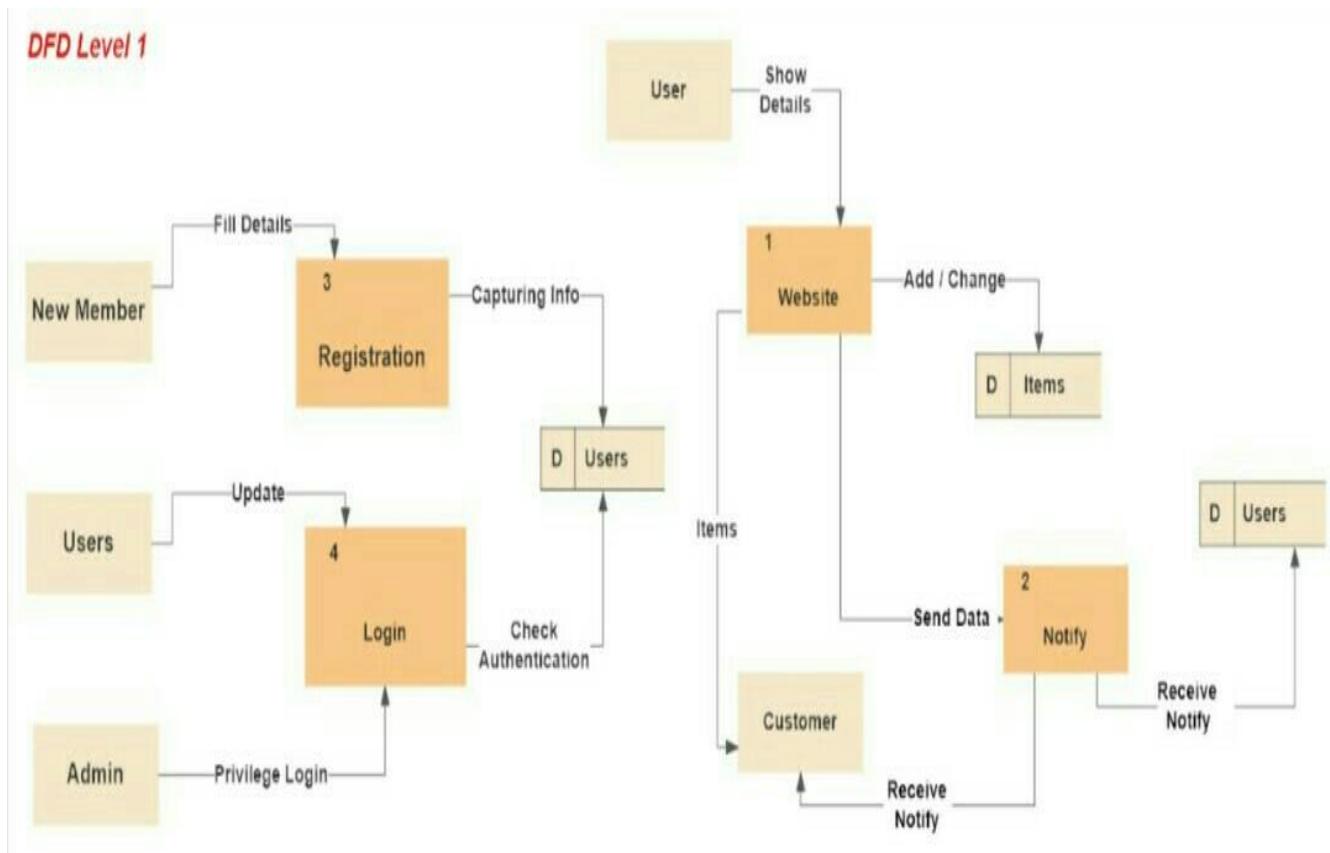
Context Diagram:



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

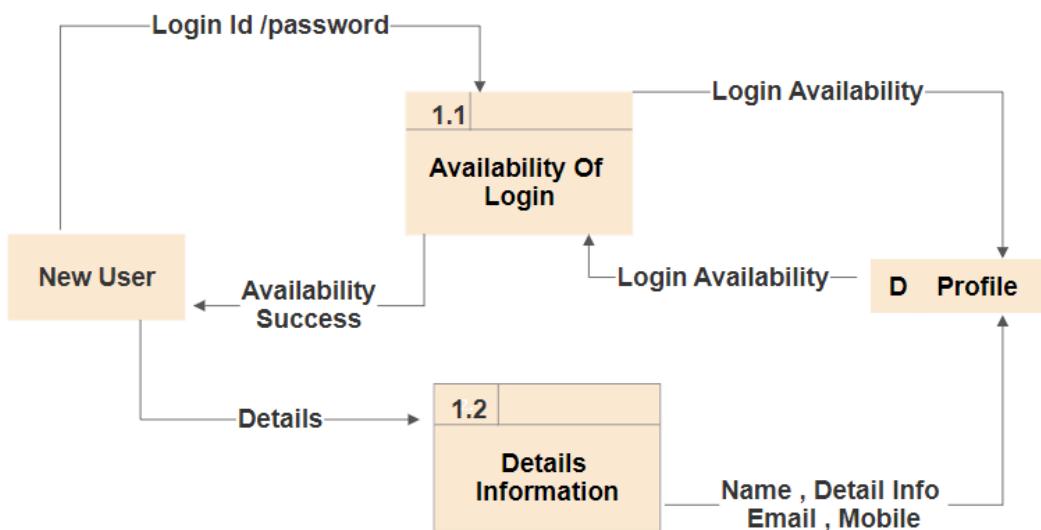
Admin, users, website are the main actors for this system.

1. DFD Level 1

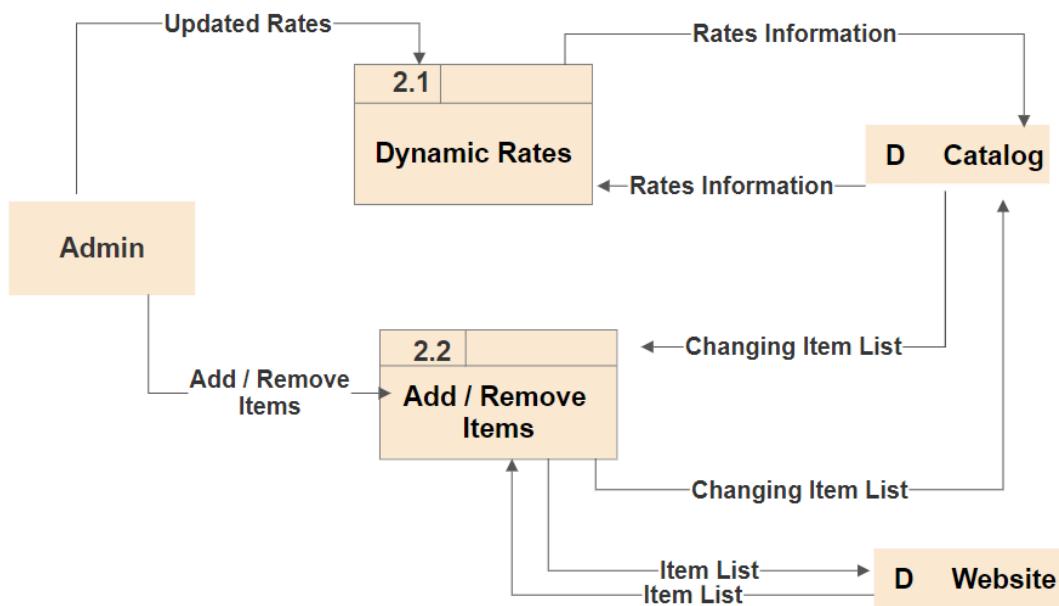
**DFD level 2 divide into:**

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

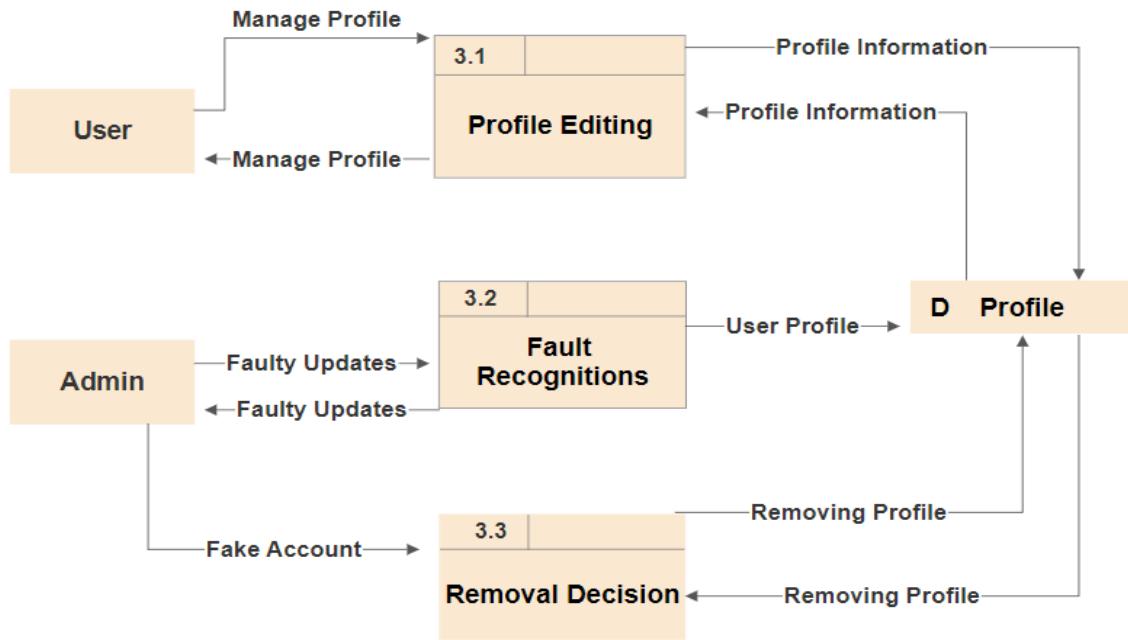
2. Registration



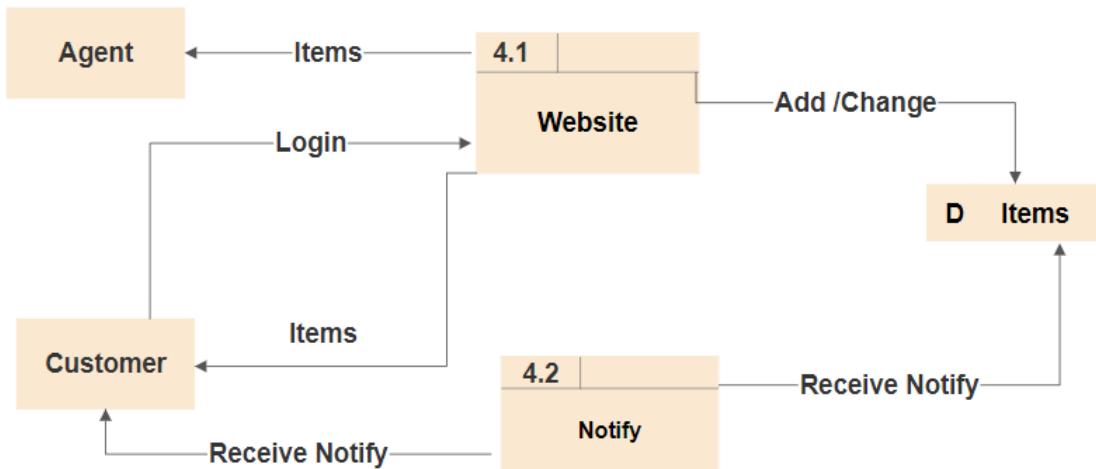
3. Maintenance



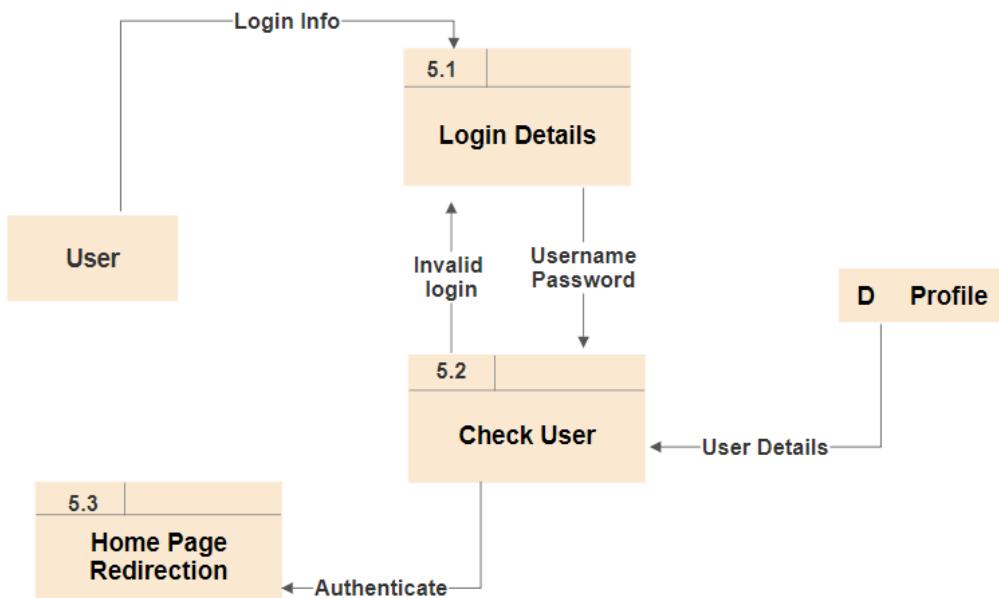
4. Profile Handling



5. Physical Transaction

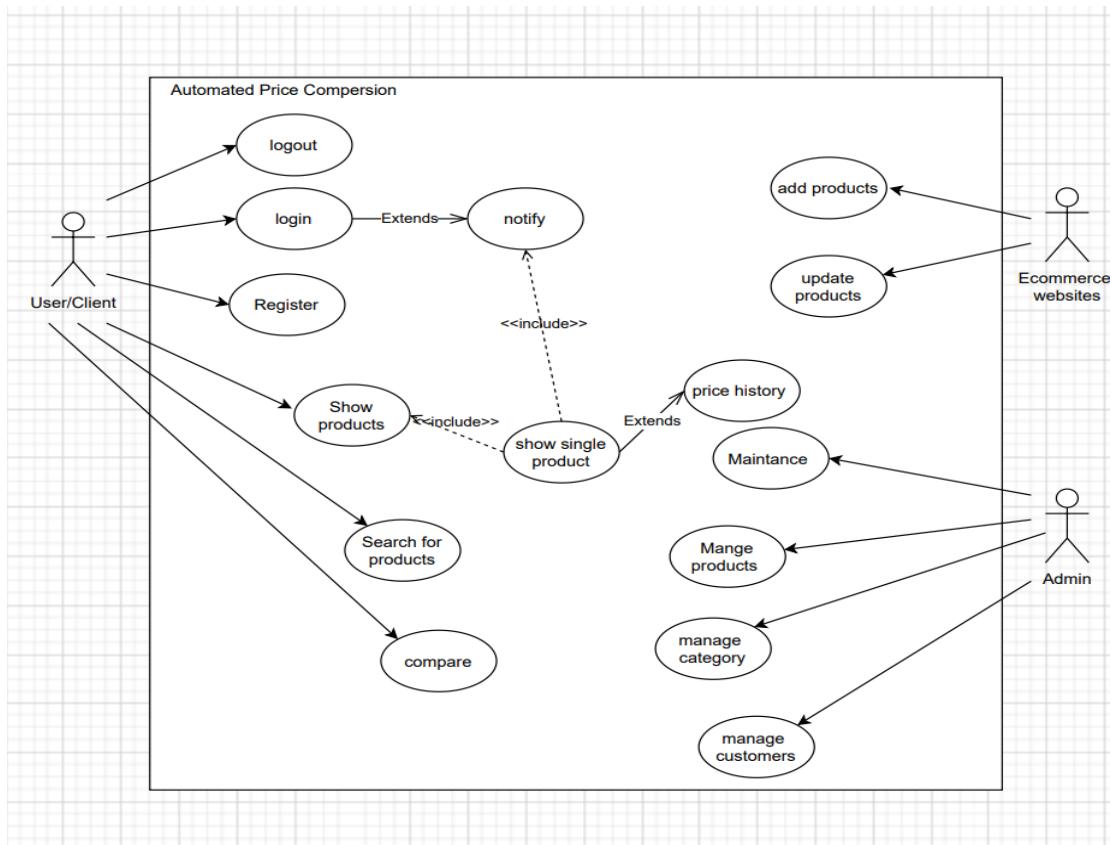


6. Login



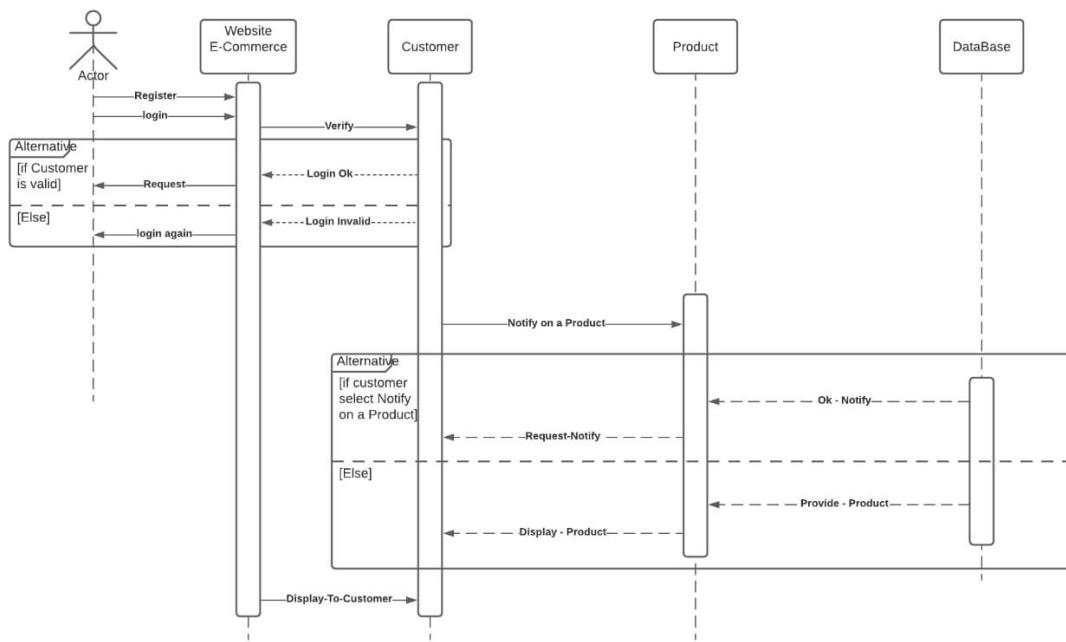
Use Case Model

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.



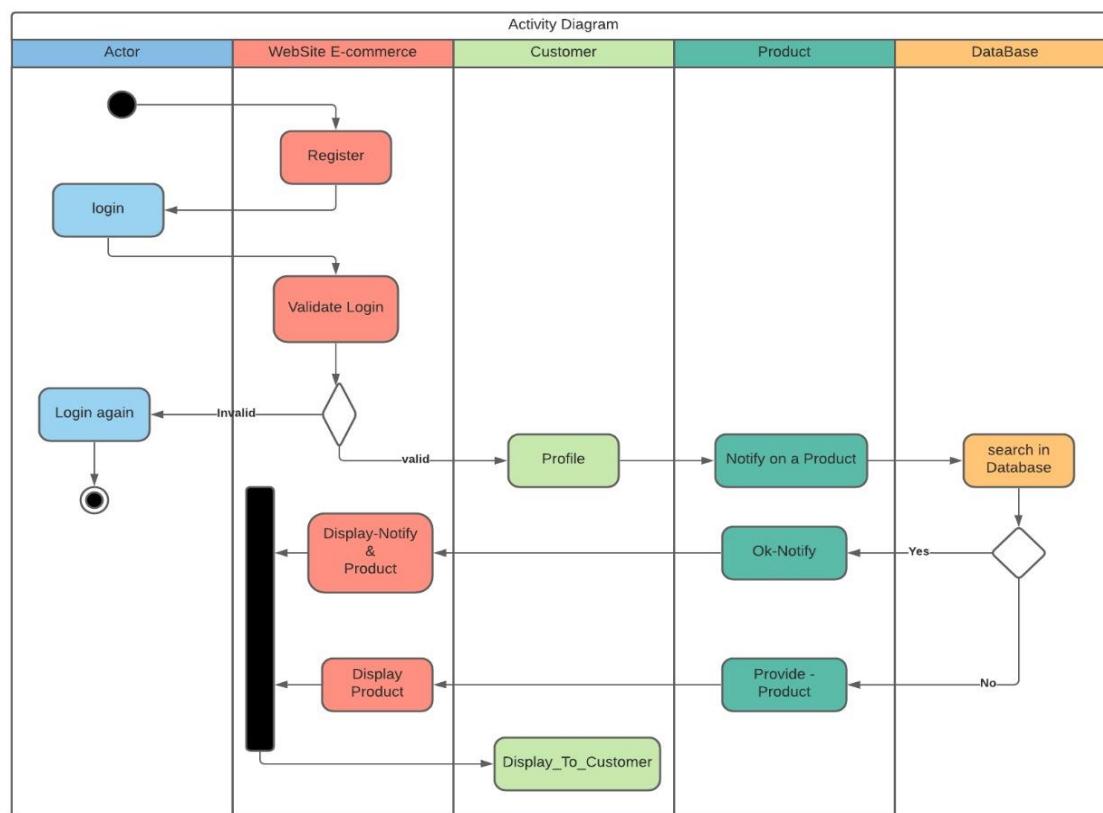
Sequence Diagram

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.



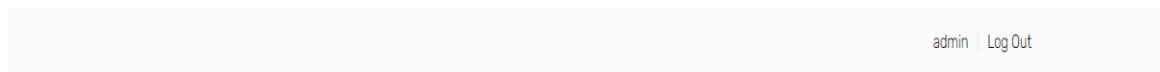
Activity Diagram

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:

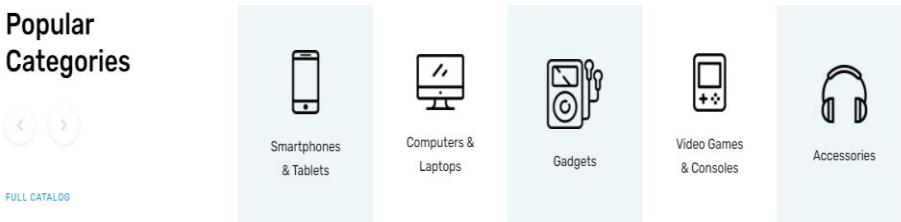
1. Search



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



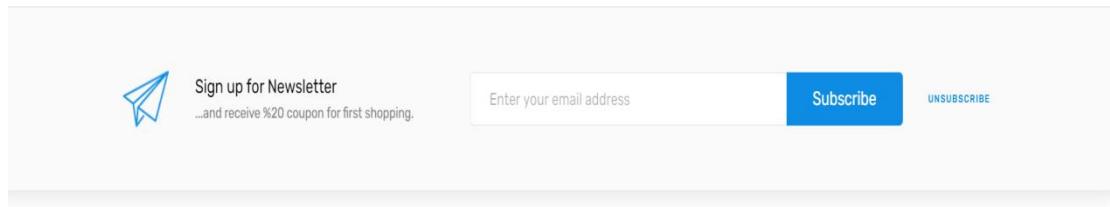
4. Hot Best Seller

Hot Best Sellers

New Product

<p>-25% Games Console Xbox One Wireless Controller 3.9 ⭐⭐⭐⭐⭐ 700.0EGP</p>	<p>-25% Games Console Xbox One S 500GB - White, 1 Wireless Controller with Fifa 17 and 1 Month EA Access 4.2 ⭐⭐⭐⭐⭐ 11850.0EGP</p>	<p>-25% Games Console Microsoft Xbox One Play and Charge Kit for Controller (xbox one) 4.3 ⭐⭐⭐⭐⭐ 109.88EGP</p>
<p>-25% Games Console Xbox One S 1TB Console Shadow of War Bundle 5.0 ⭐⭐⭐⭐⭐ 9000.0EGP</p>	<p>-25% Games Console Xbox 360E 500GB-00010-X/NFS-00002 With Kinect And One Wireless Controller - 250 GB, Black 2.5 ⭐⭐⭐⭐⭐ 4350.0EGP</p>	<p>-25% Games Console Xbox one wireless controller with play and charge kit 4.1 ⭐⭐⭐⭐⭐ 706.0EGP</p>

5. Footer



Find it Fast

[Cables](#)[Mobile Phone Accessories](#)[Computer Casing](#)[Network Switch](#)[Computer Peripheral](#)[Power Banks](#)[Computers](#)[Routers](#)[Games Console](#)[Server](#)[Games Console Accessories](#)[Skins Decals](#)[Headphones and Headsets](#)[Smart Watches](#)[Keyboards](#)[Tablet](#)[Laptop Charger](#)[Tablet Accessories](#)[Laptop Notebook](#)[VR](#)[Memory Card](#)[Watch Accessories](#)[Mobile Phone](#)

6. Products Detail

Home shop Contact

Mobile Phone

Apple iPhone 12 Pro 256GB
6 GB RAM Dual Sim,
Graphite

1.0

Description:

DISPLAY:
 Size: 6.1 inches
 Resolution: 2532 x 1170 pixels, 457 PPI
 Technology: OLED

HARDWARE:
 System chip: Apple A14 Bionic
 Processor: Hexa-core, 64-bit, 5 nm
 GPU: Yes
 RAM: 6GB LPDDR5
 Internal storage: 256GB (NVMe), not expandable
 Device type: Smartphone

DISPLAY:
 Size: 6.1 inches
 Resolution: 2532 x 1170 pixels, 457 PPI

Expected Price **26900.0 EGP**

[notify me](#)

	Apple iPhone 12 Pro Max 128GB 6 GB RAM Dual Sim, Graphite	25200.0 EGP	Souq	Buy Now
	-6%			
	Apple iPhone 12 Pro Max 256GB 6 GB RAM, Graphite	22500.0 EGP	Souq	Buy Now
	-6%			
	iPhone 12 Pro with FaceTime - 256GB - Graphite	259.0 EGP	Jumia	Buy Now
	-6%			
	iPhone 12 Pro Max With FaceTime - 256GB - Graphite	238.81 EGP	Jumia	Buy Now
	-6%			

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 with registration rules. A large blue "signup" button is centered at the bottom of the form.

11. Edit Profile

Edit profile

Username
 Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Email address

First name

Last name

Image
Currently: [profile/dj-api2.png](#)
Change: No file chosen

Phone number

Address

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  # Register your models here.
3
4
5  from .models import Profile
6
7
8
9
10 admin.site.register(Profile)

```

3. Urls

The screenshot shows the Visual Studio Code interface with a Django project open. The Explorer sidebar on the left lists the project structure, including accounts, SRC, .dist, .vscode, and accounts folders containing __init__.py, migrations, templates, admin.py, apps.py, forms.py, models.py, tests.py, and urls.py. The urls.py file is selected and shown in the main editor area. The code in urls.py is as follows:

```
from django.urls import path, import "django.urls" could not be resolved from source
from .views import signup, profile, profile_edit

app_name = 'accounts'

urlpatterns = [
    path('signup', signup, name='signup'),
    path('profile/', profile, name='profile'),
    path('profile/edit', profile_edit, name='profile_edit'),
]
```

An error message is displayed at the top of the editor: "from django.urls import path, import "django.urls" could not be resolved from source". The status bar at the bottom indicates the code is at line 1, column 1, with 4 spaces, using UTF-8 encoding, and Python as the language.

4. Forms

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

- File Explorer (Left):** Shows the project structure under the "SRC" folder:
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - static
 - templates
 - utils
 - .gitignore
- Code Editor (Center):** Displays three Python form classes:

```
accounts > forms.py > ...
1  from django import forms    import "django" could not be resolved from source
2  from . import models
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
9  class UserCreateForm(UserCreationForm):
10     class Meta:
11         model = User
12         fields = ['username','email','password1','password2']
13
14
15  class UserForm(forms.ModelForm):
16      class Meta:
17          model = User
18          fields = ['username','email','first_name','last_name']
19
20
21
22  class ProfileForm(forms.ModelForm):
23      class Meta:
24          model = Profile
25          fields = ["image",'phone_number','address']
```
- Status Bar (Bottom):** Shows file statistics: Ln 25, Col 52, Spaces: 4, UTF-8, LF, Python, and a timestamp: 03:03 AM.

5. Apps

The screenshot shows the Visual Studio Code interface with a Django project open. The left sidebar displays the file tree, showing the project structure including `src` (containing `accounts` and `db`), `static`, `templates`, and `utils`. The `accounts` folder contains files like `__init__.py`, `admin.py`, `models.py`, `views.py`, and `urls.py`. The `db` folder contains `info` and `jinja` subfolders. The `static` folder contains `css` and `js` subfolders. The `templates` folder contains `base.html` and `index.html`. The `utils` folder contains `__init__.py` and `signals.py`. The `src/accounts/apps.py` file is currently selected and shows the following code:

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

class AccountsConfig(AppConfig):
    name = 'accounts'
```

An error message is visible in the status bar at the bottom: "Import "django.apps" could not be resolved from source".

6. Views

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

- File Explorer (Left):** Shows the project structure with files like `accounts`, `views.py`, and `urls.py`.
- Code Editor (Center):** Displays the `views.py` file containing Python code for handling user profiles.
- Status Bar (Bottom):** Shows the current file is `views.py - src - Visual Studio Code`, and the status bar indicates `Ln 73, Col 5`, `Spaces: 4`, `UTF-8`, `LF`, `Python`, and `Go Live`.

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

EXPLORER
OPEN EDITORS
views.py accounts 6
SRC
accounts
views.py
accounts
__pycache__
migrations
templates
_init_.py
admin.py
apps.py
forms.py
models.py
tests.py
urls.py
views.py 6
db
info
junit
noon
products
project
setting
souq
static
templates
utils
gignore
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter
Live Share
accounts > views.py > ...
35 def profile(request):
36     profile = Profile.objects.get(user = request.user)
37     Categories = category.objects.all().order_by('sweetName')
38
39     return render(request,'profile/profile.html',{'profile':profile,
40                  'Categories':Categories
41
42 })
43
44
45 def profile_edit(request):
46     Categories = category.objects.all().order_by('sweetName')
47
48     profile = Profile.objects.get(user = request.user)
49     if request.method == 'POST':
50         user_form = UserForm(request.POST, instance=request.user)
51         profile_form = ProfileForm(request.POST, request.FILES, instance=profile)
52
53         if user_form.is_valid() and profile_form.is_valid():
54             user_form.save()
55             my_form = profile_form.save(commit=False)
56             my_form.user = request.user
57             my_form.save()
58             messages.success(request, 'Profile details updated.')
59             return redirect(reverse('accounts:profile'))
60
61     else:
62         user_form = UserForm(instance=request.user)
63         profile_form = ProfileForm(instance = profile)
64
65
66     return render(request,'profile/profile_edit.html',{
67         'user_form' : user_form ,
68         'profile_form' : profile_form,
69         'Categories':Categories
70
71 })
```

- Migrations [0001_initial.py]

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

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS profile.html accounts...
SRC
accounts > templates > profile > profile.html
10   {{profile.user.username}} {{profile.phone_number}} {{profile.address}}
11
12   ch5>a href="{% url 'accounts:profile_edit' %}">Edit Profile</a> </h5>
13
14   </div>
15   </div>
16   <div style="margin-left: 30px; margin-top: 30px; display: flex; flex-flow: row; justify-content: start;">
17     <div style="margin-right: 20px;">
18       <div style="margin-left: 30px; margin-top: 30px; display: flex; flex-flow: row; justify-content: start;">
19         <div style="margin-right: 20px;">
20           <a href="#" class="notification dropdown-toggle" type="button" id="dropdownMenu2" data-toggle="dropdown" aria-haspopup="true">
21             <i class="fa fa-bell" style="font-size:24px"></i>
22           <span class="badge">{% live_notify_badge %}</span>
23         </a>
24         <div style="width: 200px; aria-labelledby='dropdownMenu2'>
25           {% for notification in user.notifications.unread %}
26             <div>
27               notifications for <b>{{ notification.actor }}</b>
28             </div>
29             <button class="dropdown-item" type="button"><{{ notification.description }}></button>
30           </div>
31           <div class="dropdown-divider"></div>
32           <div style="margin-top: 10px;">
33             {% if user.is_authenticated %}
34               <a class="nav-brand" href="#">{{ user.username }}</a>
35             {% else %}
36               <a class="nav-brand" href="#">Hello Guest user</a>
37             {% endif %}
38           </div>
39         </div>
40       <% endblock body %>
41     </div>
42   <% endfor %>
43 </div>
44 <% endblock body %>

```

Ln 4, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:18 PM

- Registration/Logged_out.html

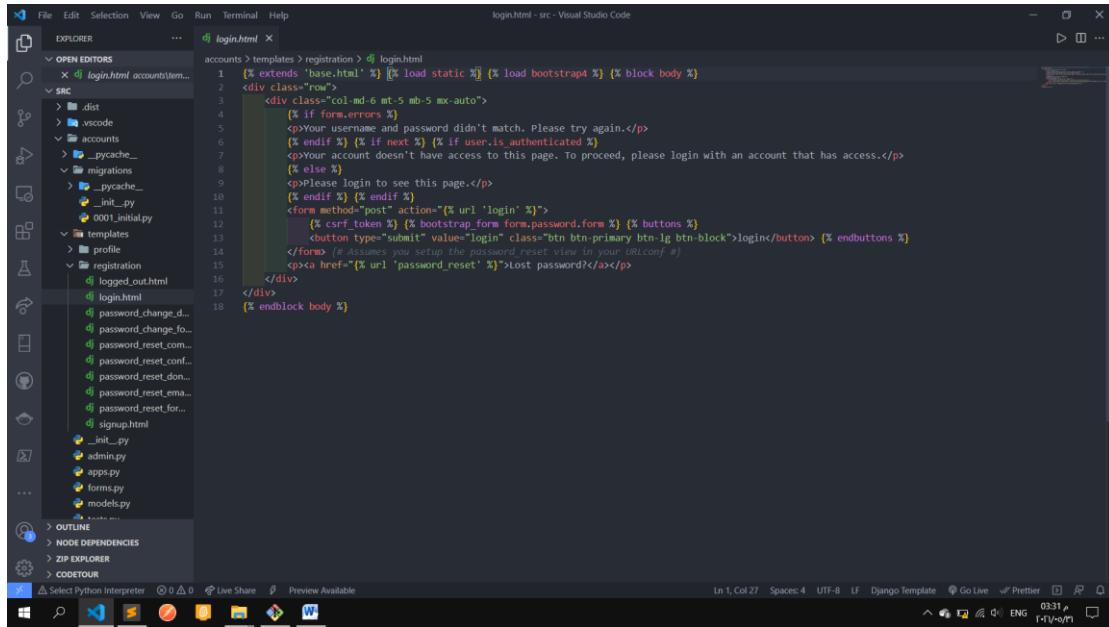
```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS logged_out.html registration...
SRC
registration > templates > registration > logged_out.html
1  {% extends 'base.html' %}
2  {% load static %}
3  {% load bootstrap4 %}
4  {% block body %}
5
6
7    <div class="row">
8      <div class="col-md-6 mt-5 mb-5 mx-auto">
9        <p class="text-dark">Logged out!</p>
10       <a href="{% url 'login' %}">Click here to login again.</a>
11    </div>
12  {% endblock body %}

```

Ln 4, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:30 PM

- o Registration/Login.html



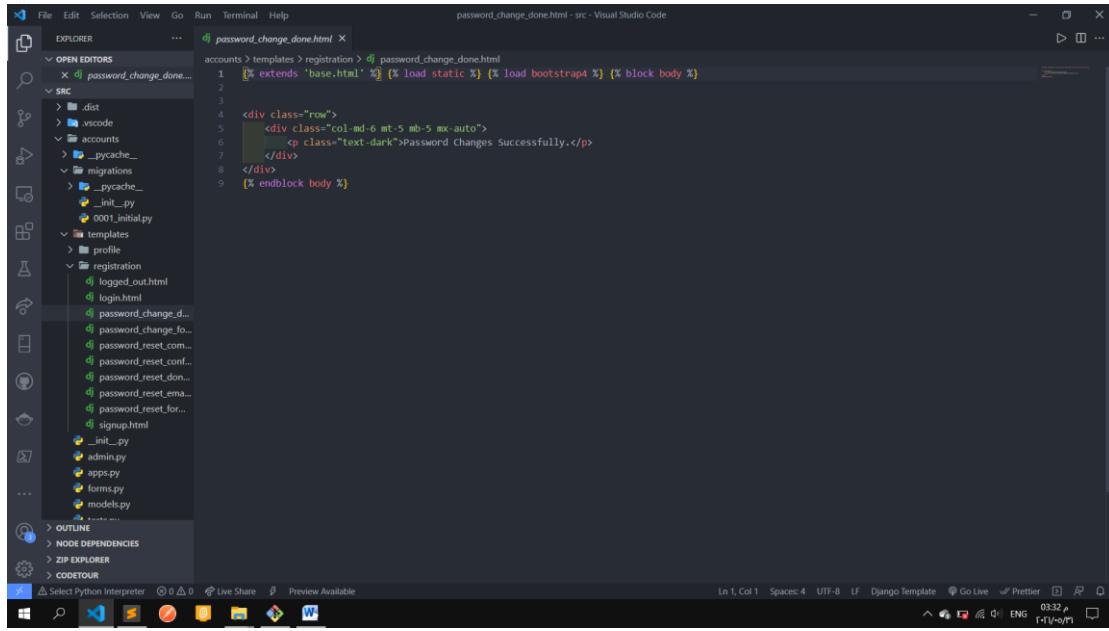
The screenshot shows the Visual Studio Code interface with the file `login.html` open in the editor. The code is a Django template for a login page. It extends the `base.html` template and includes static files and Bootstrap. It handles form errors and displays messages about incorrect login attempts or lack of access. It also includes a password reset link.

```

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



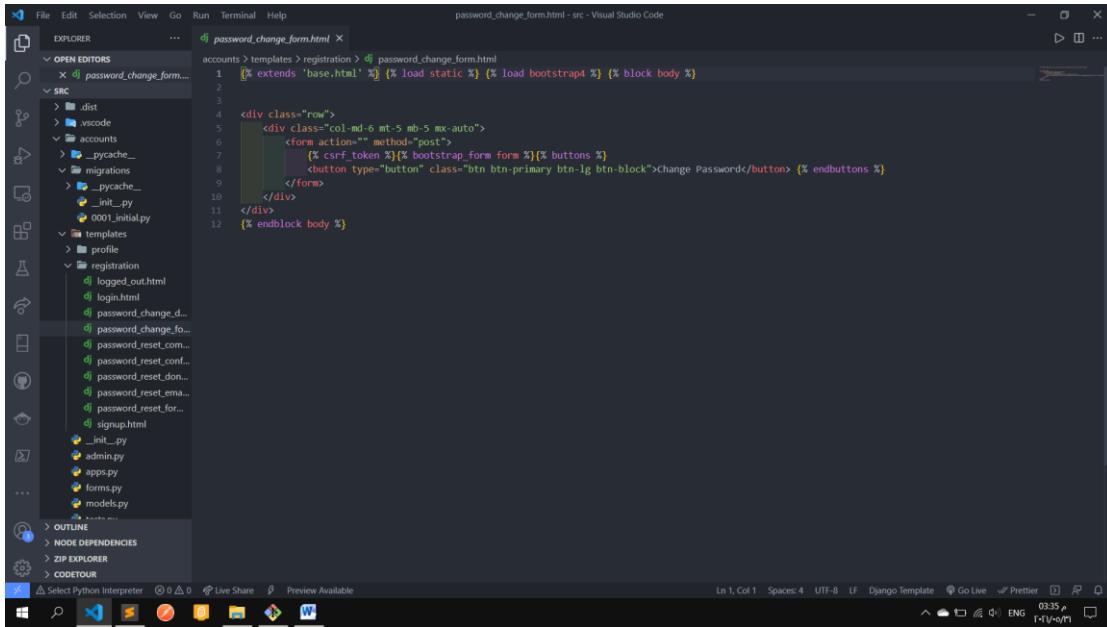
The screenshot shows the Visual Studio Code interface with the file `password_change_done.html` open in the editor. The code is a Django template for a password change confirmation page. It extends the `base.html` template and includes static files and Bootstrap. It displays a message indicating that the password has been successfully changed.

```

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

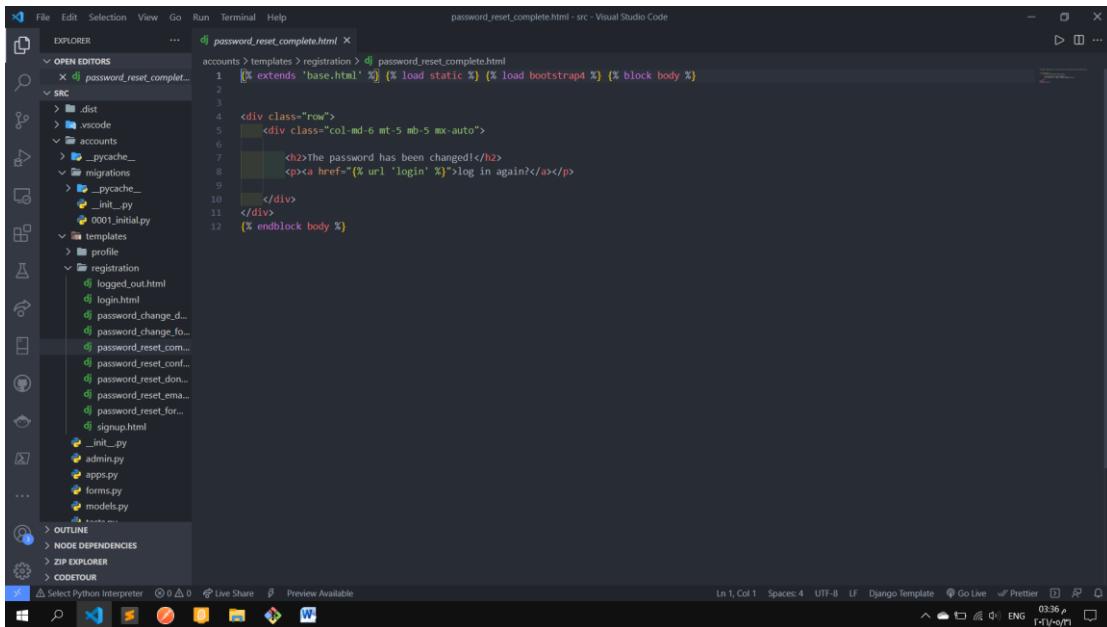
```

```

<% 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 > password_reset_complete.html
> 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)

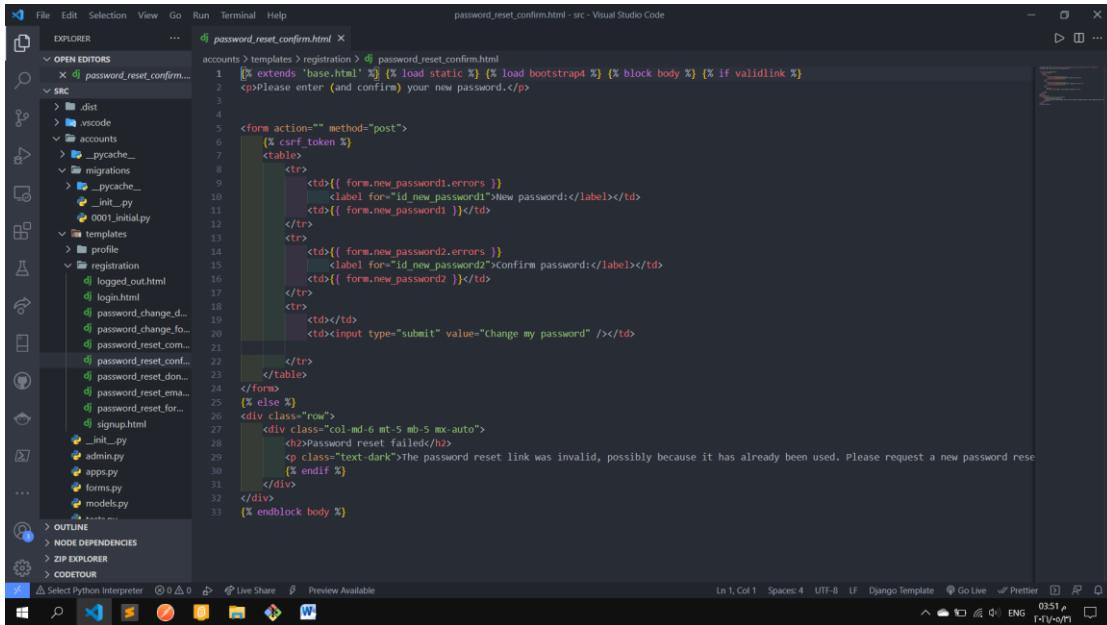
```

```

<% 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



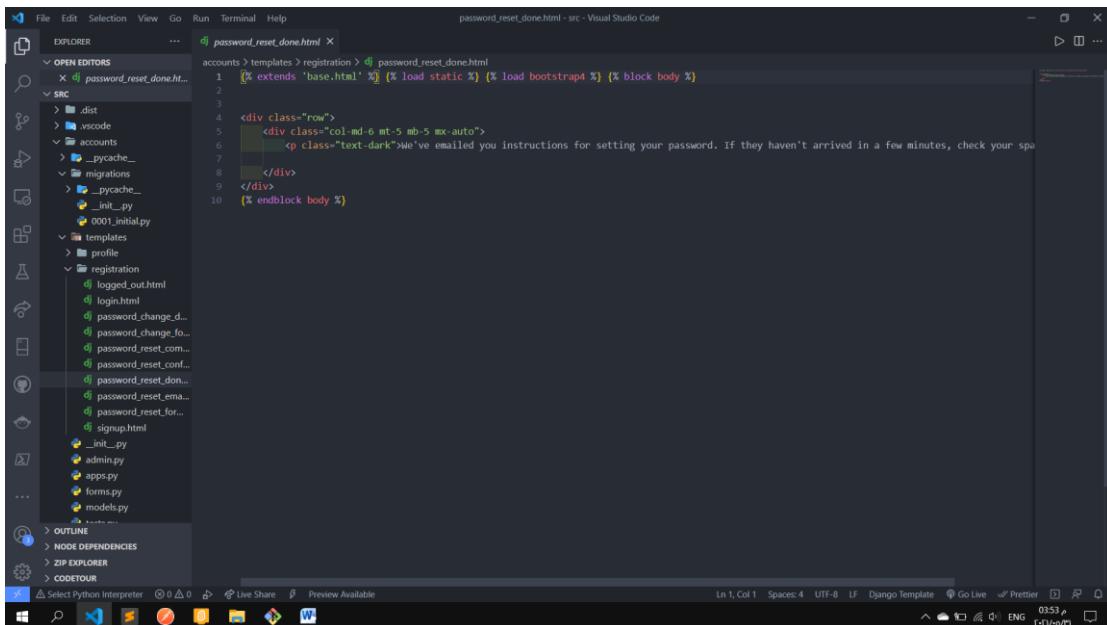
```

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_password2.errors }}</td>
14      <td><label for="id_new_password2">Confirm password:</label></td>
15    </tr>
16    <tr>
17      <td></td>
18      <td><input type="submit" value="Change my password" /></td>
19    </tr>
20  </table>
21  [% else %]
22  <div class="row">
23    <div class="col-md-6 mt-5 mb-5 mx-auto">
24      <h2>Password reset failed</h2>
25      <p class="text-dark">The password reset link was invalid, possibly because it has already been used. Please request a new password reset.
26      [% endif %]
27    </div>
28  </div>
29  [% endblock body %]

```

- Registration/Password_reset_done.html



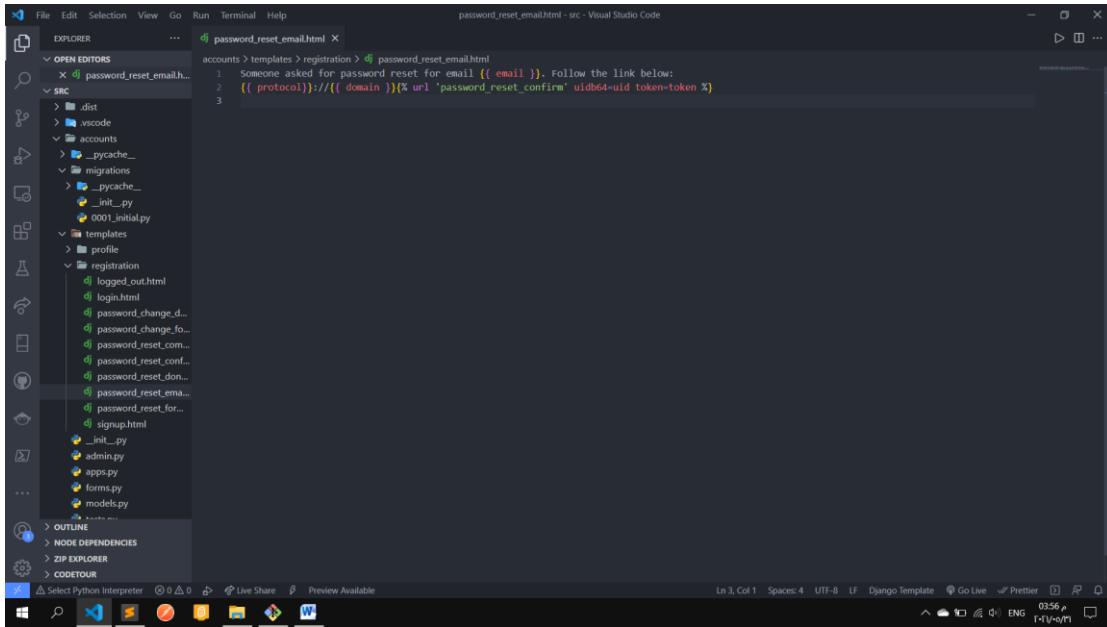
```

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.
7   </div>
8 </div>
9
10 [% endblock body %]

```

- o Registration/Password_reset_email.html



The screenshot shows the Visual Studio Code interface with the 'password_reset_email.html' file open in the editor. The code content is:

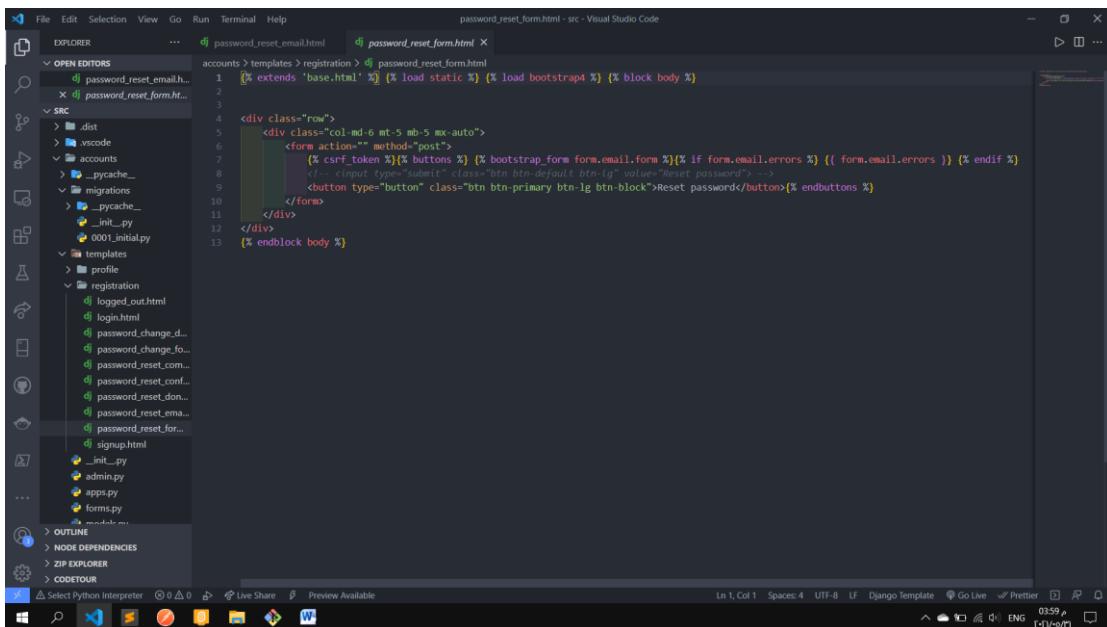
```

1 Someone asked for password reset for email {{ email }}. Follow the link below:
2 (( protocol )://{{ domain }})% url 'password_reset_confirm' uidb64=uid token=token %
3

```

The Explorer sidebar on the left shows the project structure, including 'accounts' and 'SRC' folders containing various Python files like 'admin.py', 'apps.py', 'forms.py', and 'models.py'. The bottom status bar shows 'Ln 3, Col 1' and other standard VS Code status indicators.

- o Registration/Password_reset_form.html



The screenshot shows the Visual Studio Code interface with the 'password_reset_form.html' file open in the editor. The code content is:

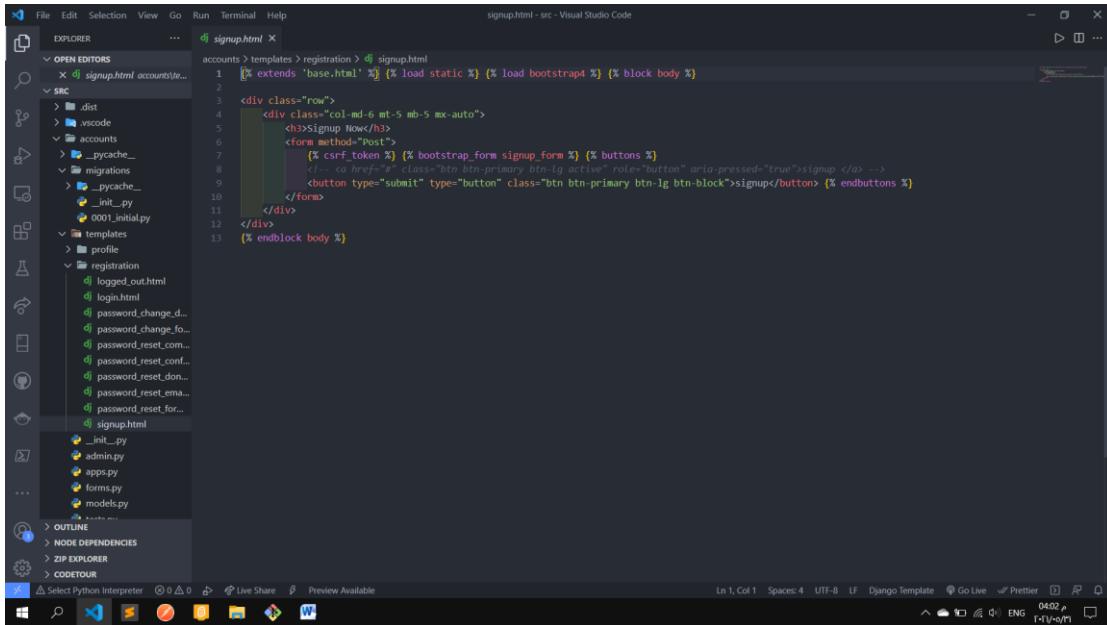
```

1 [% extends 'base.html' %] [% load static %] [% load bootstrap4 %] [% block body %]
2
3
4 <div class="row">
5   <div class="col-md-6 mt-5 mb-5 mx-auto">
6     <form action="" method="post">
7       [% csrf_token %] [% buttons %] [% bootstrap_form form.email.form %] [% if form.email.errors %] {{ form.email.errors }} [% endif %]
8       <!-- <input type="submit" class="btn btn-default btn-lg" value="Reset password"> -->
9       <button type="button" class="btn btn-primary btn-lg btn-block">Reset password</button>% buttons %
10
11 </div>
12 </div>
13 [% endblock body %]

```

The Explorer sidebar on the left shows the project structure, including 'accounts' and 'SRC' folders containing various Python files like 'admin.py', 'apps.py', 'forms.py', and 'models.py'. The bottom status bar shows 'Ln 1, Col 1' and other standard VS Code status indicators.

- o 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;input type="hidden" name="csrfmiddlewaretoken" value="..."] [% bootstrap_form signup_form %] [% buttons %]
8       <!-- <a href="#" class="btn btn-primary btn-lg active" role="button" aria-pressed="true">signup </a -->
9       <button type="submit" class="btn btn-primary btn-lg btn-block">signup</button> [% endbuttons %]
10    </form>
11  </div>
12 </div>
13 [% endblock body %]

```

File Edit Selection View Go Run Terminal Help

EXPLORER ... signup.html X

OPEN EDITORS accounts > templates > registration > signup.html

SRC > dist > vscode > accounts > __pycache__ > migrations > __pycache__ > __init__.py > 0001_initial.py > templates > profile > registration > logged_out.html > login.html > password_change_du... > password_change_fo... > 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

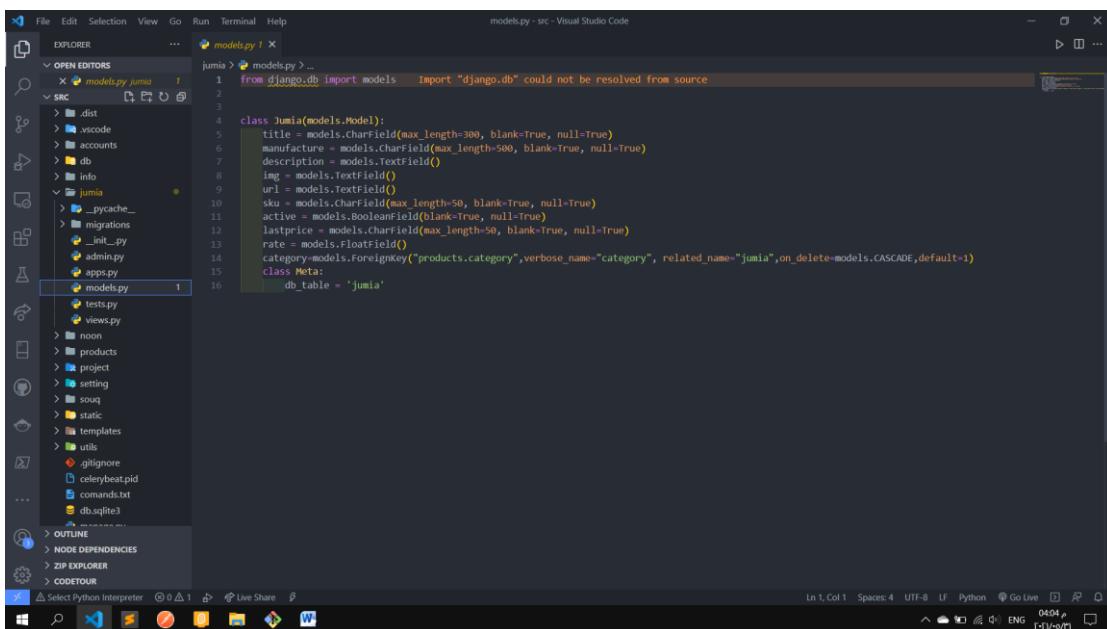
OUTLINE > NODE DEPENDENCIES > ZIP EXPLORER > CODETOUR

Select Python Interpreter Live Share Go Live Prettier

Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 04:02 p 11/12/2023

Jumia:

1. Models



```

File Edit Selection View Go Run Terminal Help
EXPLORER ... models.py X
OPEN EDITORS jumia > ...
SRC > dist > vscode > accounts > db > info > jumia > __pycache__ > migrations > __init__.py > admin.py > apps.py > models.py > tests.py > 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 Live Share Go Live Prettier
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live Prettier 04:04 p 11/12/2023

```

```

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

class Jumia(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.CharField(max_length=50, blank=True, null=True)
    rate = models.FloatField()
    category=models.ForeignKey("products.category",verbose_name="category", related_name="jumia",on_delete=models.CASCADE,default=1)
    class Meta:
        db_table = 'jumia'

```

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 `src`, 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

```

The status bar at the bottom indicates the file is in Line 1, Column 1, with 4 spaces per tab, using UTF-8 encoding, and the Python language selected. The date and time shown are 04:10 p.

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

```

The status bar at the bottom indicates the file is in Line 1, Column 1, with 4 spaces per tab, using UTF-8 encoding, and the Python language selected. The date and time shown are 04:12 p.

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_jumia_jumiaid.py 1
1 # Generated by Django 3.1.7 on 2021-04-04 12:08
2
3 from django.db import migrations
4     Import "django.db" could not be resolved from source
5
6 class Migration(migrations.Migration):
7
8     dependencies = [
9         ('jumia', '0002_auto_20210404_1340'),
10    ]
11
12     operations = [
13         migrations.RemoveField(
14             model_name='jumia',
15             name='jumiaid',
16         ),
17     ]
18

```

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_jumia_jumiaid.py 1
1 # Generated by Django 3.1.7 on 2021-04-04 12:08
2
3 from django.db import migrations
4 Import "django.db" could not be resolved from source
5
6 class Migration(migrations.Migration):
7
8 dependencies = [
9 ('jumia', '0002_auto_20210404_1340'),
10]
11
12 operations = [
13 migrations.RemoveField(
14 model_name='jumia',
15 name='jumiaid',
16),
17]
18

Noon:

1. Models

```

File Edit Selection View Go Run Terminal Help
models.py - src - Visual Studio Code
OPEN EDITORS models.py noon 1
SRC
> __dist
> vscode
> accounts
> db
> info
noon > models.py > ...
1 from django.db import models
2     Import "django.db" could not be resolved from source
3
4 class Noon(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()
9     url = models.TextField()
10    sku = models.CharField(max_length=50, blank=True, null=True)
11    active = models.BooleanField(blank=True, null=True)
12    lastprice = models.FloatField()
13    rate = models.FloatField()
14    category=models.ForeignKey("products.category",verbose_name="category", related_name="noon",on_delete=models.CASCADE,default=1)
15
16    class Meta:
17        db_table = 'noon'
18

```

File Edit Selection View Go Run Terminal Help
models.py - src - Visual Studio Code
OPEN EDITORS models.py noon 1
SRC
> __dist
> vscode
> accounts
> db
> info
noon > models.py > ...
1 from django.db import models
2 Import "django.db" could not be resolved from source
3
4 class Noon(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()
9 url = models.TextField()
10 sku = models.CharField(max_length=50, blank=True, null=True)
11 active = models.BooleanField(blank=True, null=True)
12 lastprice = models.FloatField()
13 rate = models.FloatField()
14 category=models.ForeignKey("products.category",verbose_name="category", related_name="noon",on_delete=models.CASCADE,default=1)
15
16 class Meta:
17 db_table = 'noon'
18

2. Admin

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

- File Explorer:** Shows the project structure under "SRC". The "noon" folder contains "admin.py", which is currently selected and highlighted.
- Code Editor:** 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:** Shows "In 1, Col 1" and "Spaces: 4" and "Python".
- Bottom Icons:** Includes icons for Select Python Interpreter, Live Share, and Go Live.

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 "noon". The "SRC" folder contains "accounts", "db", "info", "jumia", and "noon". The "noon" folder contains "migrations", "models.py", "settings.py", "views.py", and "apps.py".
- Editor:** The main editor window displays the "apps.py" file with the following code:

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

class NoonConfig(AppConfig):
    name = 'noon'
```
- Status Bar:** At the bottom, it shows "In 6, Col 1" and "Spaces: 4" and "UTF-8".
- Bottom Icons:** Includes icons for Python, Live Share, and Go Live.

4. Tests

File Edit Selection View Go Run Terminal Help

tests.py - src - Visual Studio Code

EXPLORER OPEN EDITORS SRC

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

tests.py 1

views.py

products project setting souq static templates utils .gitignore celerybeat.pid commands.txt db.sqlite3

OUTLINE NODE DEPENDENCIES ZIP EXPLORER CODETOUR

Select Python Interpreter 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

views.py - src - Visual Studio Code

EXPLORER OPEN EDITORS SRC

```
1 from django.shortcuts import render Import "django.shortcuts" could not be resolved from source
2
3 # Create your views here.
4
```

views.py 1

products project setting souq static templates utils .gitignore celerybeat.pid commands.txt db.sqlite3

OUTLINE NODE DEPENDENCIES ZIP EXPLORER CODETOUR

Select Python Interpreter Live Share

Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live 0427 P

6. Migrations

- o 0001_initial.py

```

noon > migrations > 0001_initial.py > ...
# generated by Django 3.1.7 on 2021-04-04 13:13

from django.db import migrations, models
import django.db.models.deletion
import django.db.models.deletion

class Migration(migrations.Migration):
    initial = True

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

    operations = [
        migrations.CreateModel(
            name='Noon',
            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=500, 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)),
                ('rate', models.FloatField()),
                ('category', models.ForeignKey(default=1, on_delete=django.db.models.deletion.CASCADE, related_name='noon', to="products.products")),
            ],
            options={
                'db_table': 'noon',
            },
        ),
    ],
]

```

Products:

1. Models

```

products > models.py > ...
# create your models here.

class Category(models.Model):
    sweetName=models.CharField(max_length=50, null=False,unique=True)
    class Meta:
        db_table = 'category'
    def __str__(self):
        return self.sweetName

class product(models.Model):
    souq=models.ForeignKey("souq.souq",verbose_name="souq", related_name="souq",on_delete=models.CASCADE)
    jumia=models.ForeignKey("jumia.jumia",verbose_name="jumia", related_name="jumia",on_delete=models.CASCADE)
    noon=models.ForeignKey("noon.noon",verbose_name="noon", related_name="noon",on_delete=models.CASCADE)

class PriceHistory(models.Model):
    souq=models.ForeignKey("souq.souq",verbose_name="souq", related_name="souqhis",on_delete=models.CASCADE)
    timeDate=models.DateTimeField()
    lastPrice = models.CharField(max_length=50, blank=True, null=True)

class NotifyMe(models.Model):
    username=models.CharField(max_length=200)
    soundId=models.CharField(max_length=200)
    expectedDPrice=models.CharField(max_length=200,null=True)
    timeDate=models.DateTimeField(null=True)
    lastPrice=models.CharField(max_length=200)
    # 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
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live 04:32 p

```

```

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
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live 04:33 p

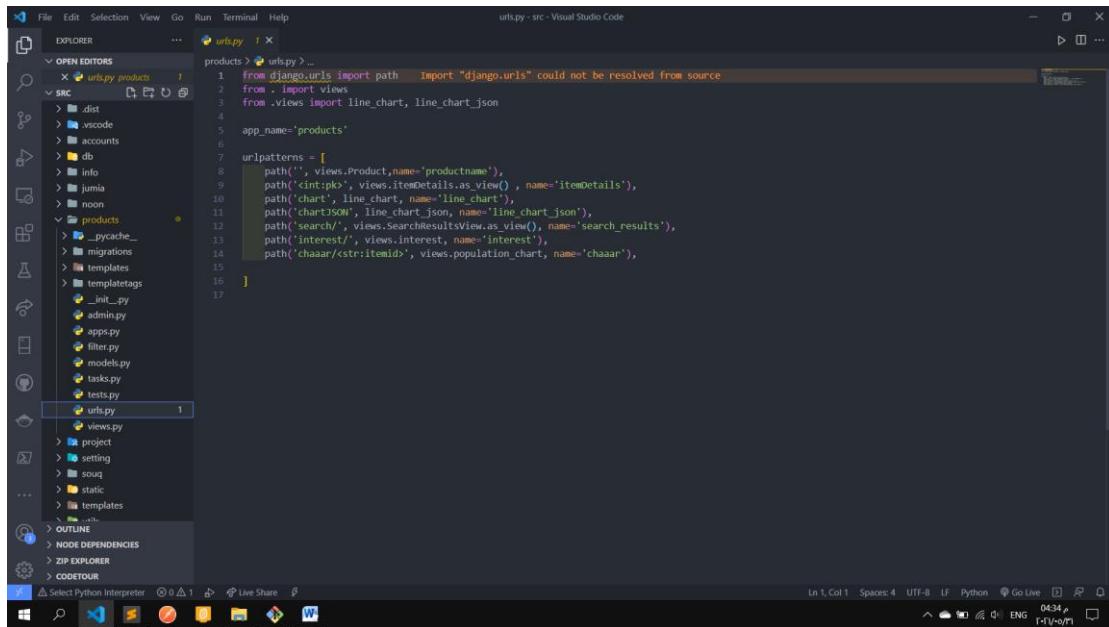
```

```

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 ⚙️ ⚙️ ⚙️

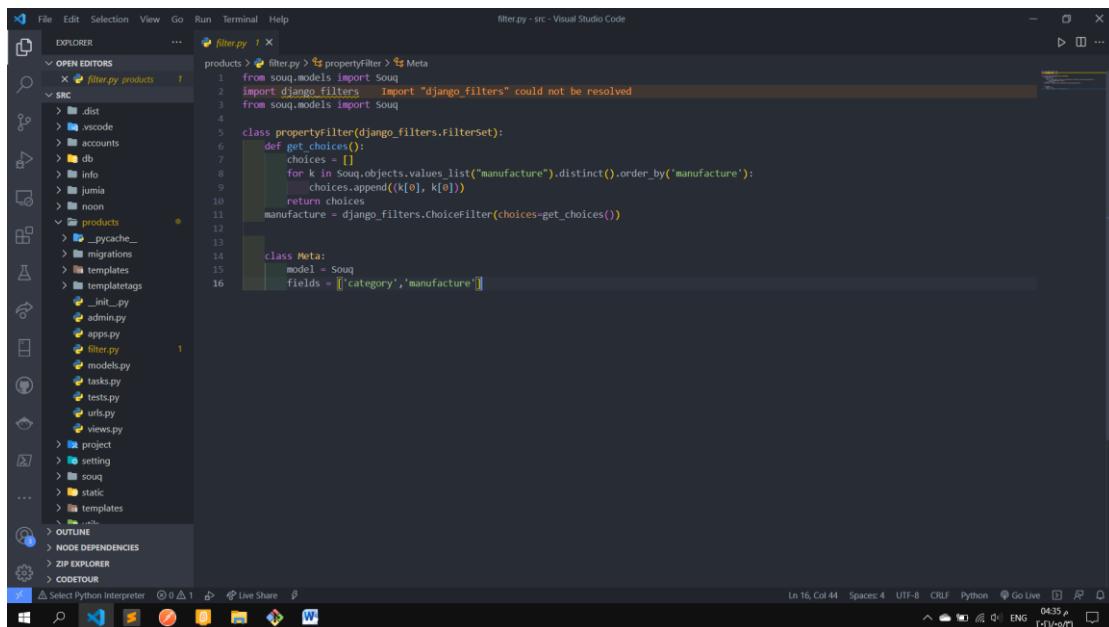
```

```

from django.urls import path
from . import views
from .views import line_chart, line_chart_json
app_name='products'
urlpatterns = [
    path('', views.ProductList.as_view(), name='productname'),
    path('<int:pk>', views.itemDetails.as_view(), name='itemDetails'),
    path('chart', line_chart, name='line_chart'),
    path('chartJSON', line_chart_json, name='line_chart_json'),
    path('search', views.SearchResultsView.as_view(), name='search_results'),
    path('interest/', views.interest, name='interest'),
    path('chaaan/<str:itemid>', views.population_chart, name='chaaan'),
]

```

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 ⚙️ ⚙️ ⚙️

```

```

from souq.models import Souq
import django_filters
from souq.models import Souq
class __propertyFilter(django_filters.FilterSet):
    def get_choices():
        choices = []
        for k in Souq.objects.values_list("manufacture").distinct().order_by('manufacture'):
            choices.append((k[0], k[0]))
        return choices
    manufacture = django_filters.ChoiceFilter(choices=get_choices())
class Meta:
    model = Souq
    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 ⚙️ 🔍

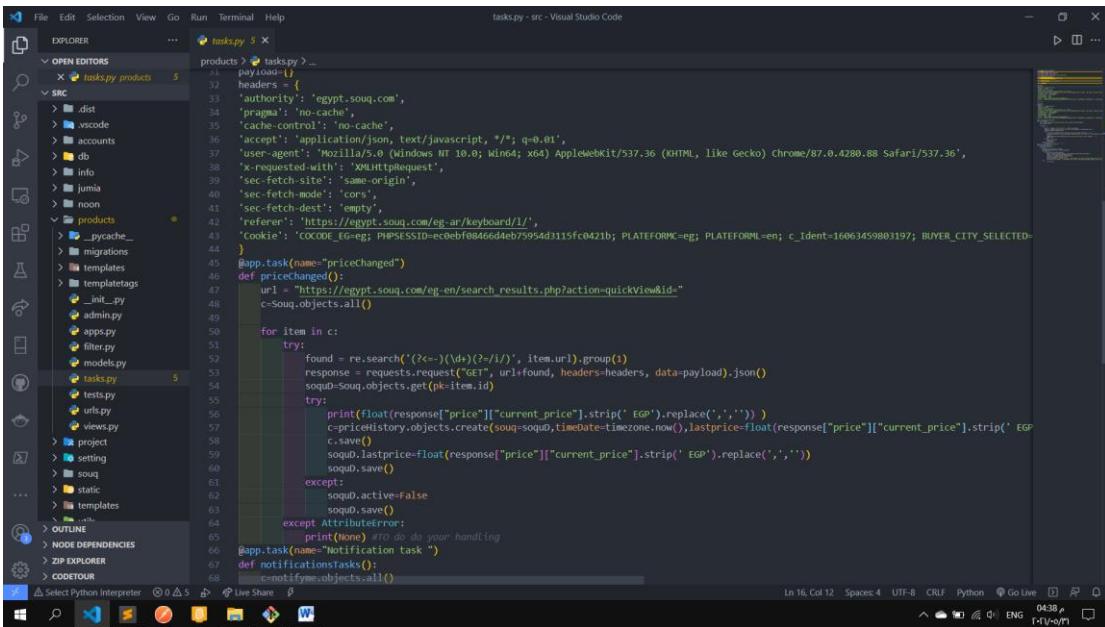
```

7. Tasks

```

File Edit Selection View Go Run Terminal Help
EXPLORER tasks.py 5
products > tasks.py > ...
1 from datetime import timezone Import "celery" could not be resolved
2 from accounts.models import Profile Import "accounts.models" could not be resolved
3 from project.celery import app Import "project.celery" could not be resolved
4 from products.models import notifyme, priceHistory Import "products.models" could not be resolved
5 from souq.models import souq Import "souq" could not be resolved
6 from notifications.signals import notify Import "notifications.signals" could not be resolved
7 from django.contrib.auth.models import User Import "django.contrib.auth.models" could not be resolved from source
8 from django.core.mail import send_mail Import "django.core.mail" could not be resolved from source
9
10 import requests Import "requests" could not be resolved from source
11
12 payload={}
13 headers={}
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-dest': 'empty',
26 'referer': 'https://egypt.souq.com/eg-ar/keyboard/1/',
27 'cookie': 'CODE_EG=eg; PHPSESSID=e0ebf88466d4eb75954d3115fc0421b; PLATEFORM=eg; PLATEFORM=en; c_Ident=16063459803197; BUYER_CITY_SELECTED=',
28
29 import re
30
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 ⚙️ 🔍

```



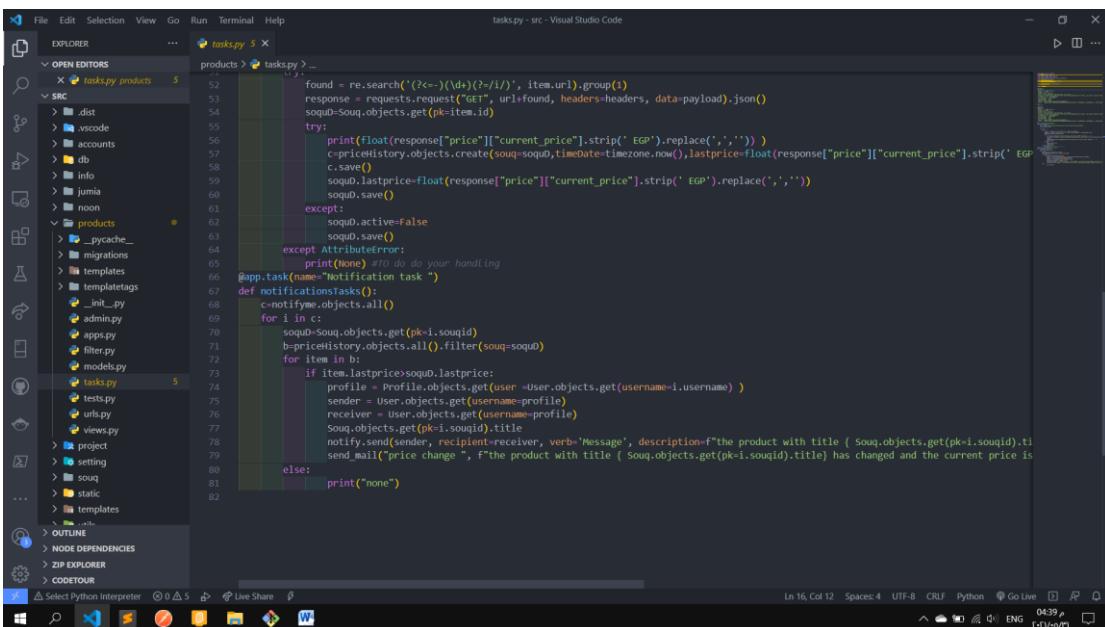
```

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()

```



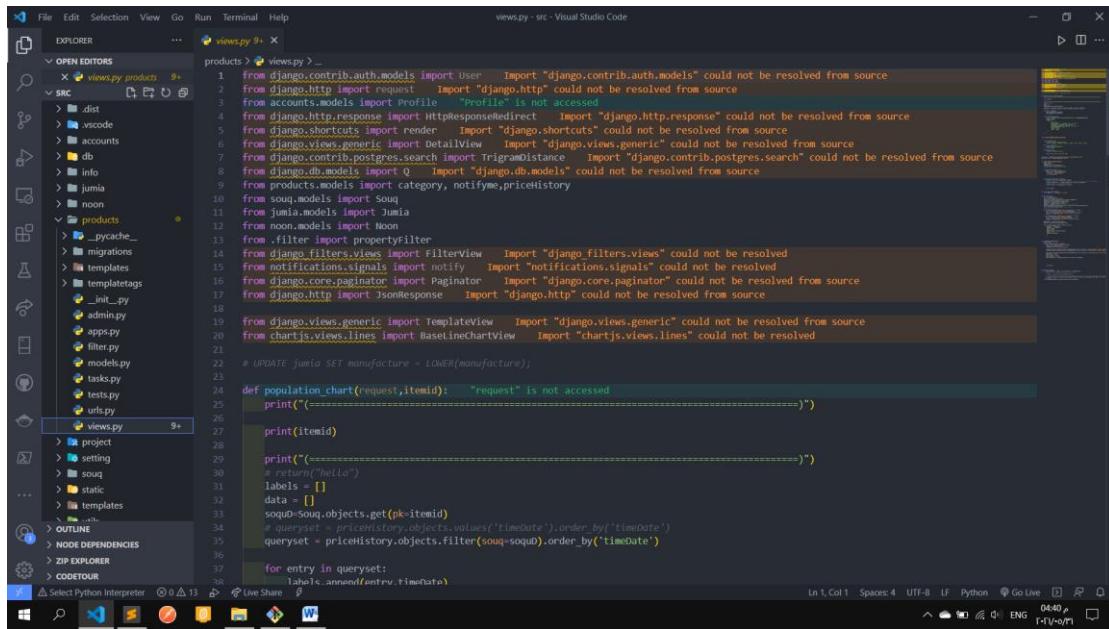
```

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=User.objects.get(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

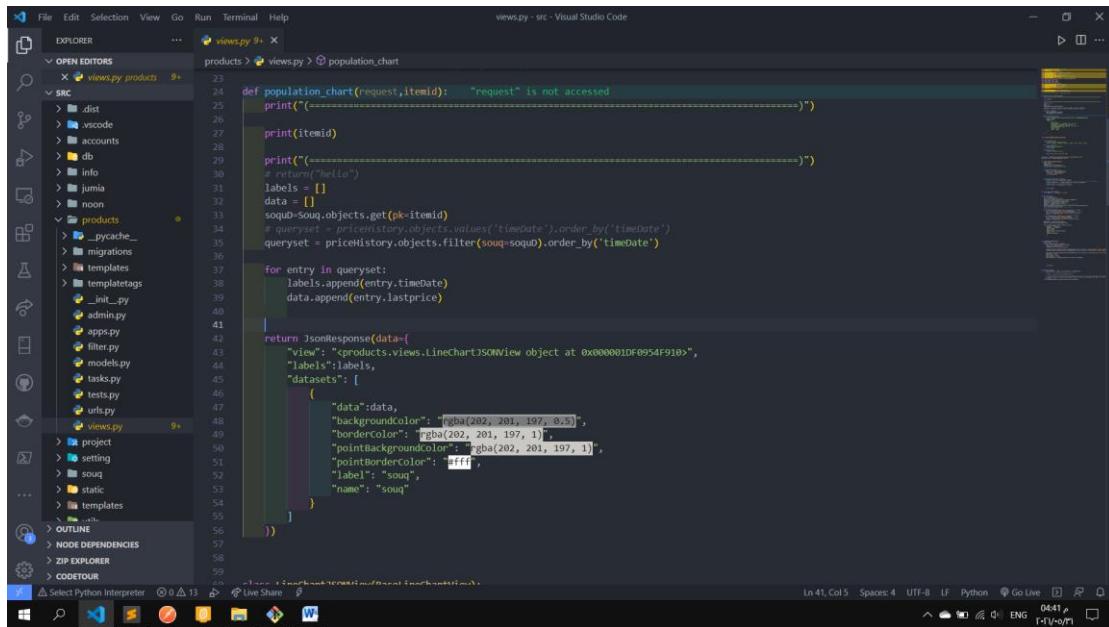


The screenshot shows the Visual Studio Code interface with the 'views.py' file open. The code editor displays several import statements from the Django framework, each followed by a red squiggle underlined error message indicating that the module or class cannot be resolved from source. The imports include User, django.http.request, django.http.response, django.shortcuts.render, django.views.generic.detailView, django.contrib.postgres.search.TrigramDistance, django.db.models.Q, django.db.models.category, django.db.models.notifyMe, django.db.models.priceHistory, django.contrib.auth.models.User, django.contrib.auth.models.Profile, django.http.HttpResponseRedirect, django.shortcuts.render, django.views.generic.detailView, django.contrib.postgres.search.TrigramDistance, django.db.models.Q, django.db.models.category, django.db.models.notifyMe, django.db.models.priceHistory, django.core.paginator.Paginator, django.core.paginator.JsonResponse, django.filters.views.FilterView, notifications.signals.notify, django.core.paginator.Paginator, django.http.JsonResponse, django.views.generic.TemplateView, chartjs.views.lines.BaselineChartView, and junia.SET.manufacture.

```

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 userprofile     "Profile" is not accessed
4  from django.http.response import HttpResponseRedirect     Import "django.http.response" could not be resolved from source
5  from django.shortcuts import render     Import "django.shortcuts" could not be resolved from source
6  from django.views.generic import DetailView     Import "django.views.generic" could not be resolved from source
7  from django.contrib.postgres.search import TrigramDistance     Import "django.contrib.postgres.search" could not be resolved from source
8  from django.db.models import Q      Import "django.db.models" could not be resolved from source
9  from souq.models import Souq
10 from junia.models import Junia
11 from noon.models import Noon
12 from products.models import Products
13 from products.models import Category
14 from products.models import NotifyMe
15 from products.models import PriceHistory
16 from products.models import Paginator
17 from django.core.paginator import Paginator     Import "django.core.paginator" could not be resolved from source
18 from django.http import JsonResponse     Import "django.http" could not be resolved from source
19 from django_filters.views import FilterView     Import "django_filters.views" could not be resolved
20 from notifications.signals import notify     Import "notifications.signals" could not be resolved
21 from django.core.paginator import Paginator     Import "django.core.paginator" could not be resolved from source
22 from django.http import JsonResponse     Import "django.http" could not be resolved from source
23 # UPDATE junia SET manufacture = LOWER(manufacture)
24
25 def population_chart(request,itemid):    "request" is not accessed
26     print("====")
27
28     print(itemid)
29
30     # return("Hello")
31     labels = []
32     data = []
33     souq=Souq.objects.get(pk=itemid)
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

```



The screenshot shows the Visual Studio Code interface with the 'views.py' file open. The code editor now displays the completed 'population_chart' function. The function starts with a comment indicating that 'request' is not accessed. It then prints the item ID and initializes lists for labels and data. It retrieves the Souq object for the specified item ID. It then queries the priceHistory table for entries related to the souq and orders them by time date. Finally, it returns a JSON response containing the labels and data for a line chart.

```

File Edit Selection View Go Run Terminal Help
products > views.py 9+ x
products > views.py > population_chart
def population_chart(request,itemid):    "request" is not accessed
print("====")
print(itemid)
# return("Hello")
labels = []
data = []
souq=Souq.objects.get(pk=itemid)
# queryset = priceHistory.objects.values('timeDate').order_by('timeDate')
queryset = priceHistory.objects.filter(souq=souq).order_by('timeDate')

for entry in queryset:
    labels.append(entry.timeDate)
    data.append(entry.lastPrice)

return JsonResponse(data=[{
    "view": "products.views.LineChartJSONView object at 0x000001DF0954F910",
    "labels":labels,
    "datasets": [
        {
            "data":data,
            "backgroundColor": "#gba(202, 201, 197, 0.5)",
            "borderColor": "#gba(202, 201, 197, 1)",
            "pointBackgroundColor": "#gba(202, 201, 197, 1)",
            "pointBorderColor": "#ffff",
            "label": "souq",
            "name": "souq"
        }
    ]
}])

```

```

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

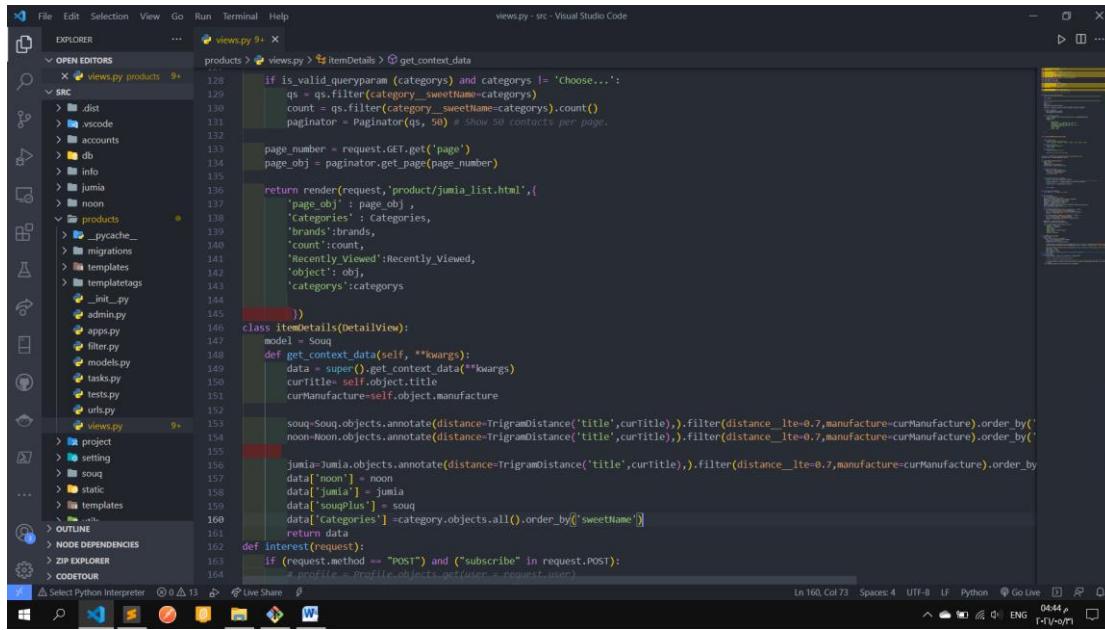
def is_valid_queryparam(param):
    return param != '' and param is not None

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(category) and category != 'choose...':
        qs = qs.filter(category_sweetName__contains=category)
        count = qs.filter(category_sweetName__contains=category).count()
        paginator = Paginator(qs, 50) # Show 50 contacts per page.

    ...

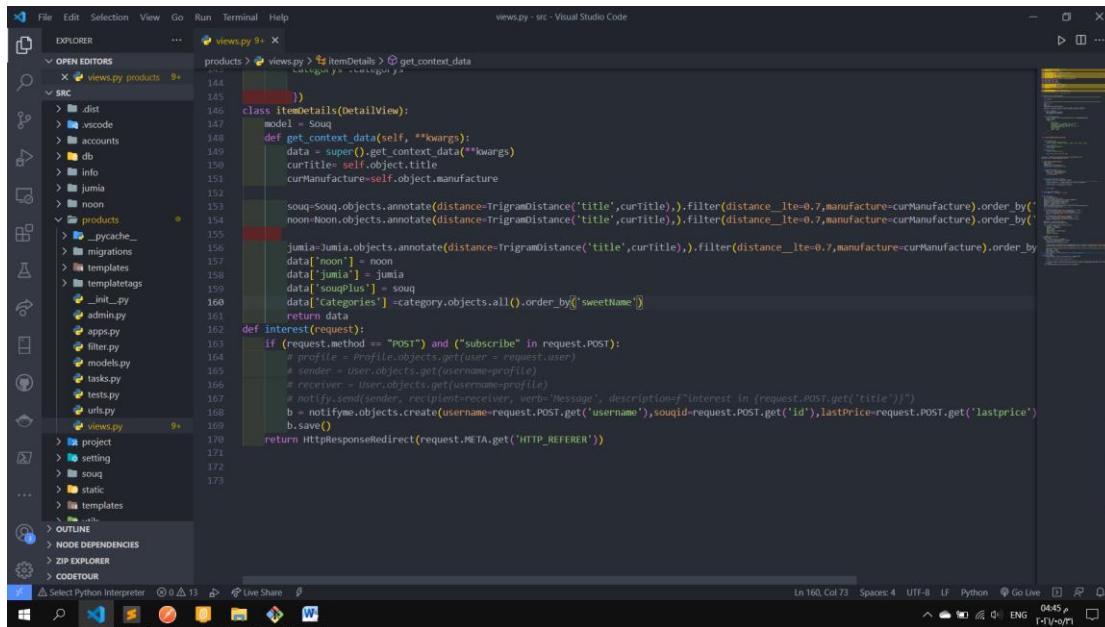
```



```

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

- Product/Jumia_list.html

The screenshot shows the Visual Studio Code interface with the file `jumia_list.html` open. The code is a Django template for a product listing page. It includes form groups for selecting a category and manufacturer, a search button, and a section for displaying products found. The code uses Bootstrap classes like `col-lg-3`, `col-md-8`, and `col-lg-9`. The sidebar on the left shows the project structure with files like `jumia_list.html`, `manu.html`, and `souq_liststar`. The bottom status bar shows tabs, file encoding, and other development tools.

```
<div class="shop">
    <div class="container">
        <div class="row">
            <div class="col-lg-3">
                <form>
                    <div class="form-group col-md-8">
                        <label for="category">Category</label>
                        <select id="category" class="form-control" name="category">
                            <option selected>Choose...</option>
                            {% for cat in Categories %}<br>
                                <option value="{{ cat }}>{{ cat }}</option>
                            {% endfor %}
                        </select>
                    </div>
                    <div class="form-group col-md-8">
                        <label for="brands">Brands</label>
                        <select id="brands" class="form-control col-md-12" name="manufacture">
                            <option selected>Choose...</option>
                            {% for cat in brands %}<br>
                                <option value="{{ cat.manufacture }}>{{ cat.manufacture }}</option>
                            {% endfor %}
                        </select>
                    </div>
                    <button type="submit" class="btn btn-primary">Search</button>
                </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>
                    <!-- Tab Content -->
                    <div class="container">
                        <div class="row mb-8">
                            <div class="col-lg-9 col-wd-9gdot5">
```

APC

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="brand">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 %>

```

```

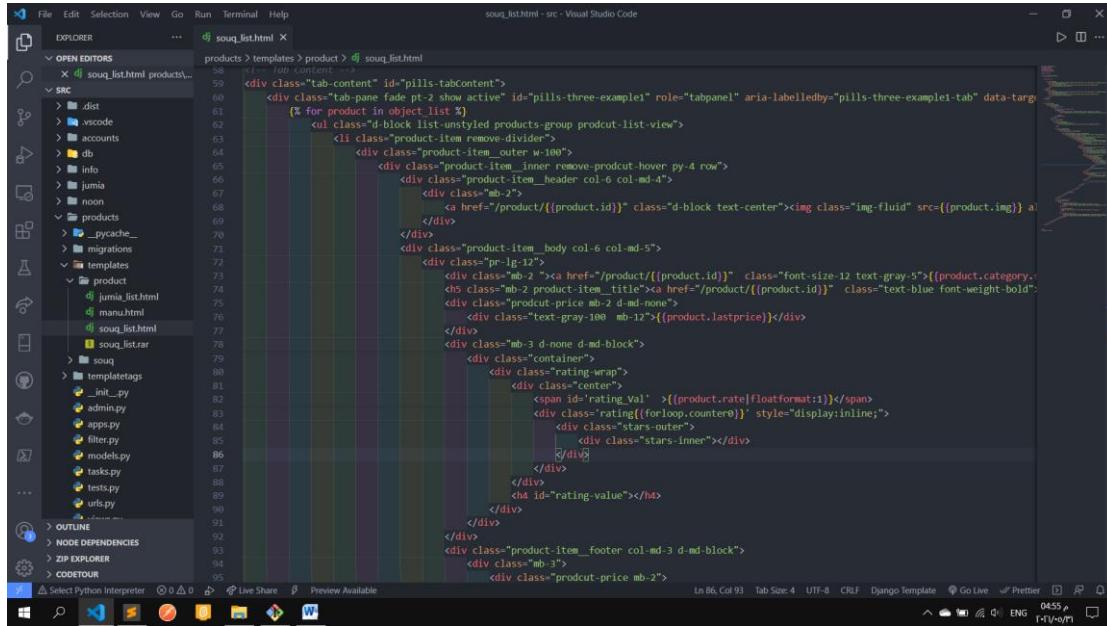
File Edit Selection View Go Run Terminal Help
EXPLORER ... souq_list.html
OPEN EDITORS products > templates > product > souq_list.html
SRC
> .dist
> vscode
> accounts
> db
> info
> jumia
> noon
> products
> __pycache__
> migrations
> templates
> product
  dj_jumia_list.html
  dj_manu.html
  dj_souq_list.html
  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

```

```

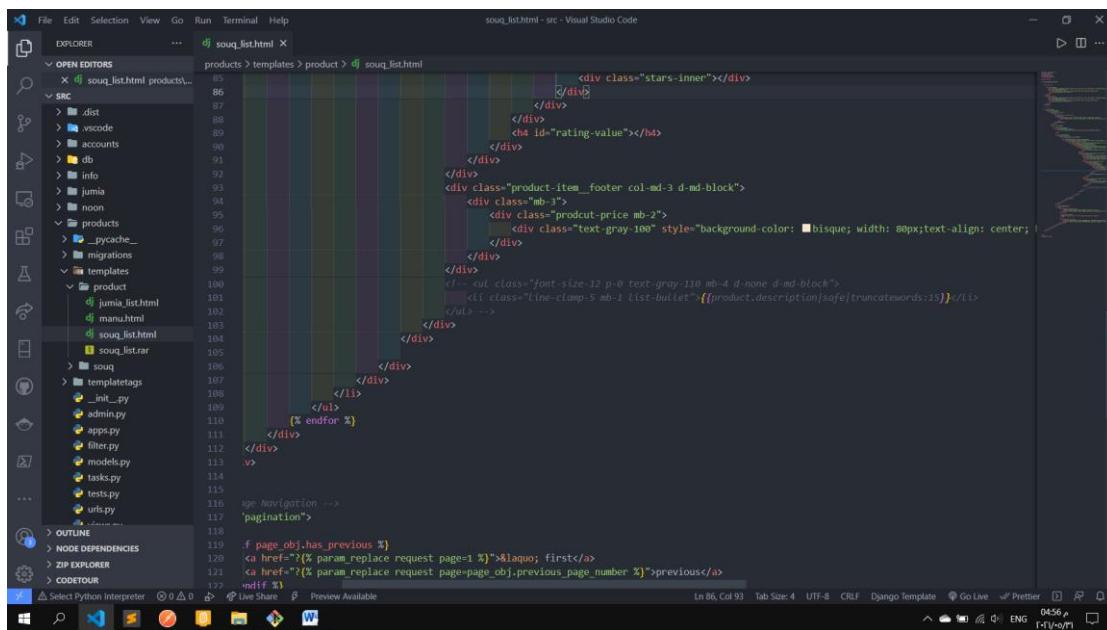
<% extends 'base.html' %>
<% load my_tags %>
<% load static %>
<% load bootstrap4 %>
<% load mafilters %>
<% block body %>
<div class="shop">
<div class="container">
<div class="row">
<div class="col-lg-3">
<form >
<% bootstrap_form filter_form %>
<% buttons %>
</form>
</div>
<div class="col-lg-9">
<!-- Shop Content -->
<div class="shop_content">
<div class="shop_bar clearfix">
<div class="shop_product_count"><span>{{count}} products found</span>

```



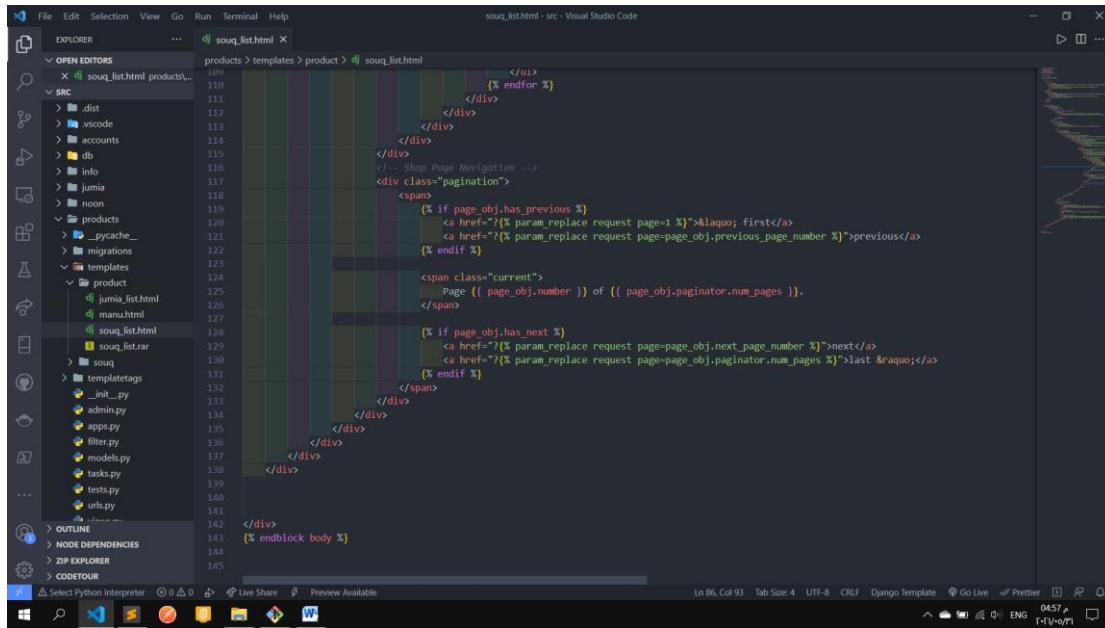
```

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}}
```

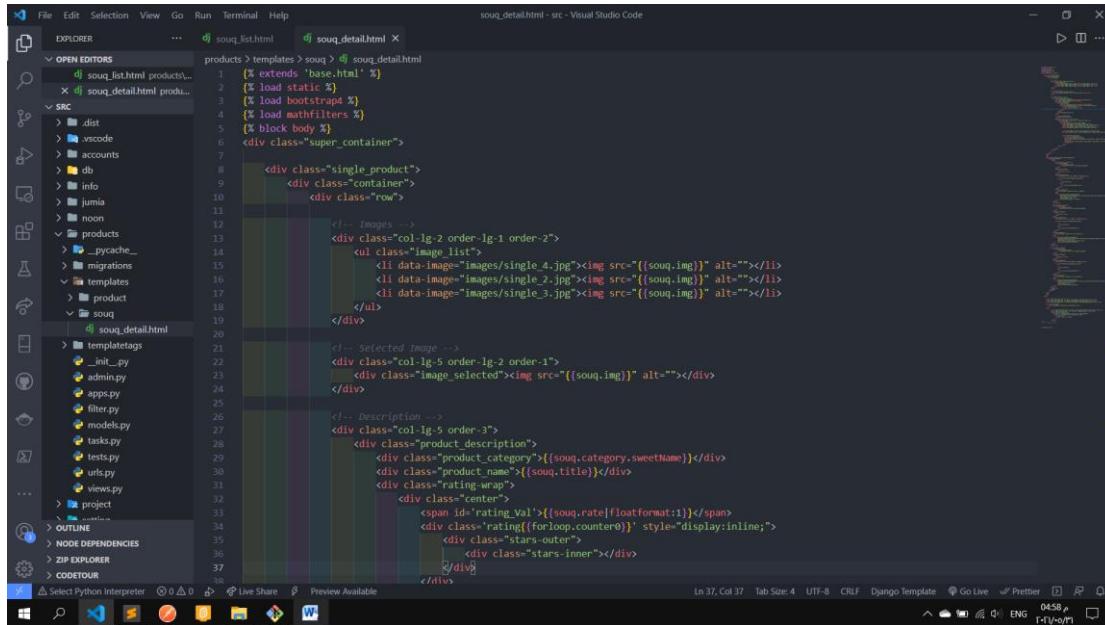


```

products > templates > product > souq_list.html
109     </ul>
110     [% endfor %]
111   </div>
112   </div>
113   </div>
114   </div>
115   </!-- Shop Page Navigation -->
116   <div class="pagination">
117     <span>
118       [% if page_obj.has_previous %]
119         <a href="?% param_replace request.page=1 %">&lquo; first;</a>
120         <a href="?% param_replace request.page=page_obj.previous_page_number %">>previous</a>
121       [% endif %]
122     </span>
123     <span class="current">
124       Page {{ page_obj.number }} of {{ page_obj.paginator.num_pages }}.
125     </span>
126     [% if page_obj.has_next %]
127       <a href="?% param_replace request.page=page_obj.next_page_number %">>next</a>
128       <a href="?% param_replace request.page=page_obj.paginator.num_pages %">>last &rquo;;</a>
129     [% endif %]
130   </div>
131   </div>
132   </div>
133   </div>
134   </div>
135   </div>
136   </div>
137   </div>
138   </div>
139   </div>
140   </div>
141   </div>
142   </div>
143   </div>
144   </div>
145   </div>
146   <% endblock body %>

```

- o Souq/Souq_detail.html



```

products > templates > souq > souq_detail.html
1   [% extends 'base.html' %]
2   [% load static %]
3   [% load bootstrap4 %]
4   [% load mathfilters %]
5   [% block body %]
6   <div class="super_container">
7     <div class="single_product">
8       <div class="container">
9         <div class="row">
10          <!-- Images -->
11          <div class="col-lg-2 order-lg-1 order-z">
12            <ul class="image_list">
13              <li data-image="images/single_4.jpg">
23      <div class="image_selected">
27      <div class="product_description">
28        <div class="product_category">{{souq.category.sweetName}}</div>
29        <div class="product_title">{{souq.title}}</div>
30        <div class="rating_wrap">
31          <div class="center">
32            <span id="rating_val">'{{souq.rate|floatformat:1}}</span>
33            <div class="rating" forloop.counter0>{{display_rating}}</div>
34          </div>
35        </div>
36      </div>
37    </div>
38  </div>

```

APC

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

- File Explorer (Left):** Shows the project structure under "SRC".
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - __pycache__
 - migrations
 - templates
 - product
 - souq
 - souq_detail.html
- Open Editors (Top):** Shows two files: "souq_list.html" and "souq_detail.html".
- Code Editor (Main Area):** Displays the "souq_detail.html" template file. The code includes Jinja2 templating syntax for product details, user authentication, and a subscribe button.
- Bottom Status Bar:** Shows "Ln 37, Col 37", "Tab Size: 4", "UTF-8", "CR/LF", "Django Template", "Go Live", and "Python Interpreter".
- Bottom Icons:** Standard Windows taskbar icons for file operations like Open, Save, Print, and Help.

```
</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}}>Buy Now</a>
</td>
</tr>
{% endfor %}
{% for product in jumia %}
<td class="item-img">
  
</td>
```

```
<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: #E67E22;">Jumia</h5>
</td>
<td>
    <a data-gtmid="product-buy|SouqLegen"
       productpath="/eg/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>
[% endif %]
```

```

    ...
    <% 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"
               target="_blank" rel="nofollow"
               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"
       target="_blank" rel="nofollow"
       href="{{product.url}}"
       class="btn btn-primary">Buy Now</a>
    </td>
<% endfor %>
</tbody>
</table>
</div>
<br>
<br>
</div>

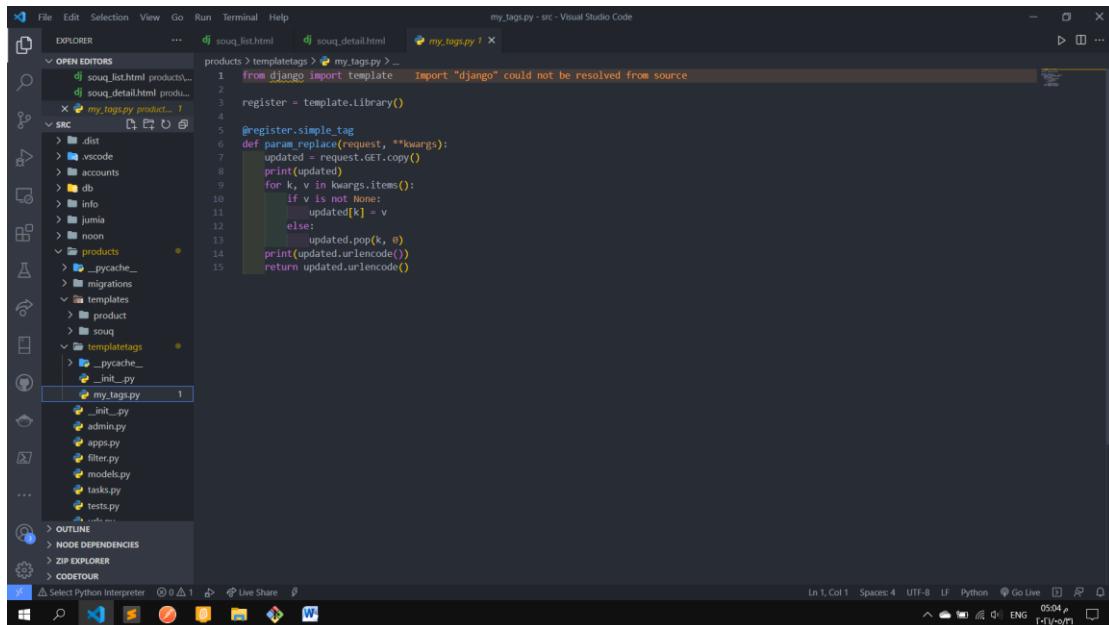
<!-- amcharts javascript sources -->
<script type="text/javascript" src="https://www.amcharts.com/lib/3/amcharts.js"></script>
<script type="text/javascript" src="https://www.amcharts.com/lib/3/serial.js"></script>
<script type="text/javascript" src="https://www.amcharts.com/lib/3/themes/patterns.js">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



```

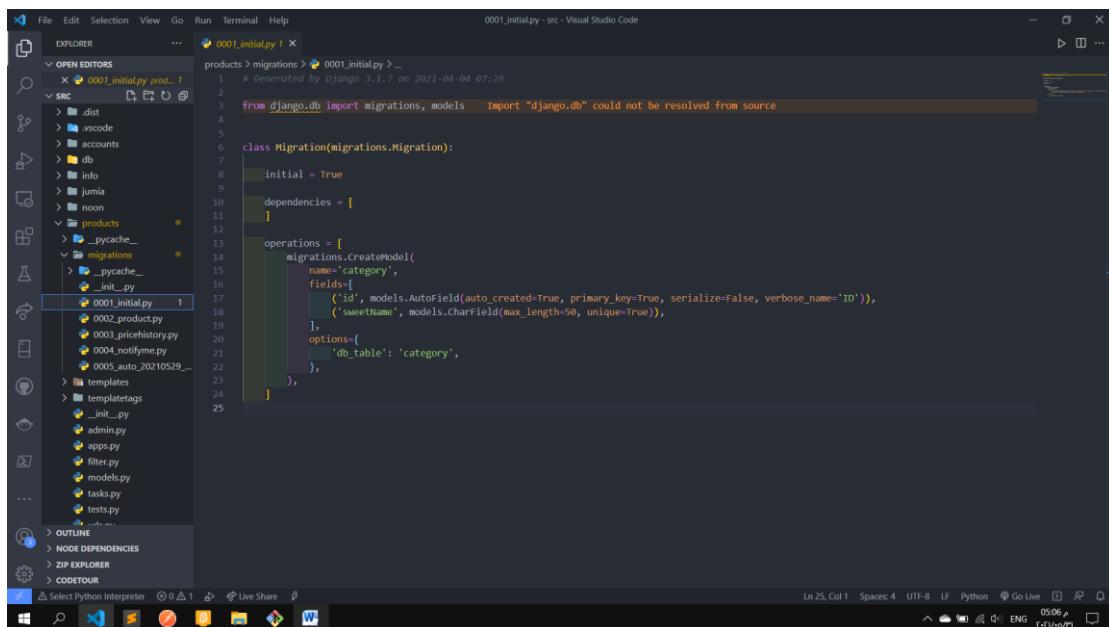
File Edit Selection View Go Run Terminal Help
my_tags.py - src - Visual Studio Code
EXPLORER ... dj souq_list.html dj souq_detail.html my_tags.py 1
OPEN EDITORS products > templatetags > my_tags.py ...
1 from django import template
2     import "django" could not be resolved from source
3 register = 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. The code imports the 'template' module from 'django'. It defines a 'register' variable of type 'Library'. A custom tag 'simple_tag' is registered using the '@register.simple_tag' decorator. This tag takes keyword arguments ('**kwargs') and creates a copy of the current GET request object. It then iterates over the provided keyword arguments, updating the request's parameters if they are not None. Finally, it encodes the updated query parameters back into a URL string.

11. Migrations

- o 0001_initial.py



```

File Edit Selection View Go Run Terminal Help
0001_initial.py - src - Visual Studio Code
OPEN EDITORS 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 ]

```

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. The code imports 'migrations' and 'models' from 'django.db'. It defines a single migration named 'Migration'. This migration is set to be the initial one ('initial = True'). It has no dependencies ('dependencies = []'). The 'operations' section contains a single 'CreateModel' operation. This operation creates a new model named 'Category'. It has two fields: 'id' (an auto-generated primary key) and 'sweetname' (a unique character field with a maximum length of 50). The migration is also assigned to the 'category' database table.

- 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='pricelistory',
            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'))
            ],
        ),
    ]

```

- 0004_notifyme.py

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

- File Explorer (Left):** Shows the project structure with the following files and folders:
 - 0004_notifyme.py** (selected)
 - products**:
 - migrations
 - __pycache__
 - templates
 - src**:
 - __init__.py
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - tests.py
- Code Editor (Center):** Displays the content of **0004_notifyme.py**. The code defines a `Migration` class with dependencies and operations.

```
1  # Generated by Django 3.1.7 on 2021-05-27 12:35.
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      dependencies = [
9          ('products', '0003_pricehistory'),
10     ]
11
12     operations = [
13         migrations.CreateModel(
14             name='notifyme',
15             fields=[
16                 ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
17                 ('username', models.CharField(max_length=200)),
18                 ('souqid', models.CharField(max_length=200)),
19                 ('lastPrice', models.CharField(max_length=200)),
20             ],
21         ),
22     ]
23 ]
```
- Bottom Status Bar:** Shows the current file is **0004_notifyme.py**, the source is **Visual Studio Code**, and the status bar includes Ln 23, Col 1, Spaces: 4, UTF-8, CR/LF, Python, Go Live, and system icons.

- 0005_auto_20210529_0605.py

Souq:

1. Models

```

models.py - souq - Visual Studio Code

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS SRC models.py
souq > models.py ... 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 > admin.py ... 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
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
e views.py 1
> static
> templates
> utils
> .gitignore
> celerybeat.pid
> .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

```

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
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
> tests.py
> views.py
> .gitignore
> celerybeat.pid
> .vscode
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter 0 1 Live Share
Ln 33, Col 6 Spaces: 4 UTF-8 LF Python Go Live

```

- o 0002_remove_souq_sku.py

```

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS ... 0002_remove_souq_sku.py - src - Visual Studio Code
souq > migrations > 0002_remove_souq_sku.py > ...
1 # Generated by Django 3.1.7 on 2021-04-03 16:12
2
3 from django.db import migrations    Import "django.db" could not be resolved from source
4
5
6 class Migration(migrations.Migration):
7     dependencies = [
8         ('souq', '0001_initial'),
9     ]
10
11     operations = [
12         migrations.RemoveField(
13             model_name='souq',
14             name='sku',
15         ),
16     ]
17
18

```

File Edit Selection View Go Run Terminal Help

EXPLORER OPEN EDITORS ... 0002_remove_souq_sku.py - src - Visual Studio Code

souq > migrations > 0002_remove_souq_sku.py > ...

1 # Generated by Django 3.1.7 on 2021-04-03 16:12

2

3 from django.db import migrations Import "django.db" could not be resolved from source

4

5

6 class Migration(migrations.Migration):

7 dependencies = [

8 ('souq', '0001_initial'),

9]

10

11 operations = [

12 migrations.RemoveField(

13 model_name='souq',

14 name='sku',

15),

16]

17

18

- o 0003_auto_20210403_1814.py

```

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS ... 0003_auto_20210403_1814.py - src - Visual Studio Code
souq > migrations > 0003_auto_20210403_1814.py > ...
1 # Generated by Django 3.1.7 on 2021-04-03 16:14
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     dependencies = [
8         ('souq', '0002_remove_souq_sku'),
9     ]
10
11     operations = [
12         migrations.AlterField(
13             model_name='souq',
14             name='rate',
15             field=models.FloatField(),
16         ),
17         migrations.AlterField(
18             model_name='souq',
19             name='souq_id',
20             field=models.TextField(),
21         ),
22     ]
23
24

```

File Edit Selection View Go Run Terminal Help

EXPLORER OPEN EDITORS ... 0003_auto_20210403_1814.py - src - Visual Studio Code

souq > migrations > 0003_auto_20210403_1814.py > ...

1 # Generated by Django 3.1.7 on 2021-04-03 16:14

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 dependencies = [

8 ('souq', '0002_remove_souq_sku'),

9]

10

11 operations = [

12 migrations.AlterField(

13 model_name='souq',

14 name='rate',

15 field=models.FloatField(),

16),

17 migrations.AlterField(

18 model_name='souq',

19 name='souq_id',

20 field=models.TextField(),

21),

22]

23

24

- o 0004_souq_category.py

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS 0004_souq_category.py 2
src > migrations > 0004_souq_category.py > ...
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" could not be resolved from source
5     import django.db.models.deletion
6     Import "django.db.models.deletion" could not be resolved from source
7
8 class Migration(migrations.Migration):
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

```

The screenshot shows the Visual Studio Code interface with the file 0004_souq_category.py open in the editor. The code defines a Django migration for adding a category field to the souq model. The migration specifies dependencies on the products app's initial migration and itself. The operations section adds a new field named 'category' to the 'souq' model, linking it to the 'category' field in the 'products' app.

- o 0005_souq_url.py

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS 0005_souq_url.py 1
src > migrations > 0005_souq_url.py > ...
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     Import "django.db" could not be resolved from source
5
6 class Migration(migrations.Migration):
7     dependencies = [
8         ('souq', '0004_souq_category'),
9     ]
10
11     operations = [
12         migrations.AddField(
13             model_name='souq',
14             name='url',
15             field=models.TextField(default=''),
16         ),
17     ]
18
19

```

The screenshot shows the Visual Studio Code interface with the file 0005_souq_url.py open in the editor. The code defines a Django migration for adding a url field to the souq model. The migration specifies dependencies on the souq app's previous migration. The operations section adds a new field named 'url' to the 'souq' model, setting its default value to an empty string.

- 0006_auto_20210404_1340.py

The screenshot shows the Visual Studio Code interface with a Django project open. The left sidebar displays the file structure under 'OPEN EDITORS'. The main editor window shows a Python file named '0006_auto_20210404_1340.py' containing migration code. The code defines a class 'Migration' with dependencies on 'souq' and '0005_souq_url'. It contains an operation to alter the 'souq' field in the 'manufacture' model. The status bar at the bottom indicates the file is 19 lines long, has 4 spaces, and is using UTF-8 encoding.

```
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

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

EXPLORER ... models.py x
OPEN EDITORS ...
SRC ...
> dist
> vscode
accounts
db
info
jumia
noon
products
project
setting ...
> __pycache__
migrations
templates
__init__.py
admin.py
apps.py
models.py 1
tests.py
urls.py
views.py
souq
static
templates
utils
utils
celerybeat.pid
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR

Select Python Interpreter ⚙️ 0 ⚙️ 1 🔍 Live Share 🔍

1 from django.db import models Import "django.db" could not be resolved from source
2
3 # Create your models here.
4
5
6 class Info(models.Model):
7     name=models.CharField(max_length=100)
8     logo=models.ImageField(upload_to='info')
9     description=models.TextField(max_length=300)
10    fb_link=models.URLField(max_length=200)
11    twitter_link=models.URLField(max_length=200)
12    instagram_link=models.URLField(max_length=200)
13    address=models.TextField(max_length=200)
14    phone_number=models.CharField(max_length=200)
15    email=models.EmailField(max_length=60)
16
17
18
19
20
21 def __str__(self):
22     return self.name
23
24
25
26 class Meta:
27     verbose_name = 'Info'
28     verbose_name_plural = 'infos'

Ln 1, Col 1 | Spaces: 4 | UTF-8 | LF | Python | Go Live | 05:25 | ENG | [1/10/20]
```

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
```

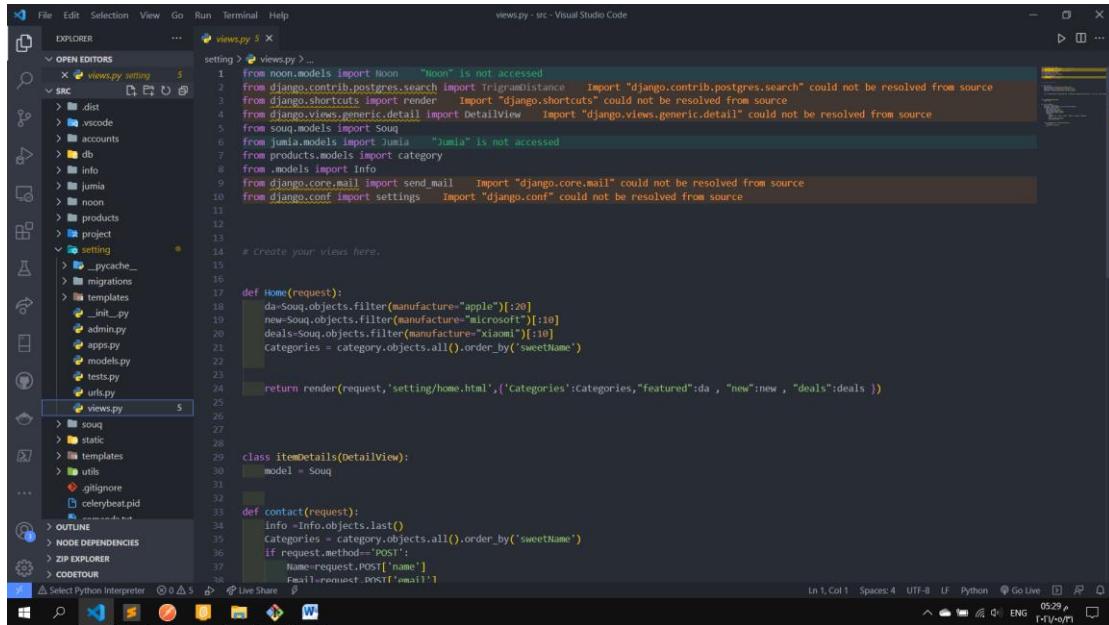
The screenshot shows the Visual Studio Code interface with the 'tests.py' file open in the editor. The code attempts to import 'TestCase' from 'django.test' but receives an error message indicating that 'django.test' cannot be resolved from source. The file is located in the 'src' directory, which also contains 'setting' and 'urls' sub-directories.

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
```

The screenshot shows the Visual Studio Code interface with the 'urls.py' file open in the editor. The code attempts to import 'path' from 'django.urls' but receives an error message indicating that 'django.urls' cannot be resolved from source. The file is located in the 'src' directory, which also contains 'setting' and 'views' sub-directories.

6. Views

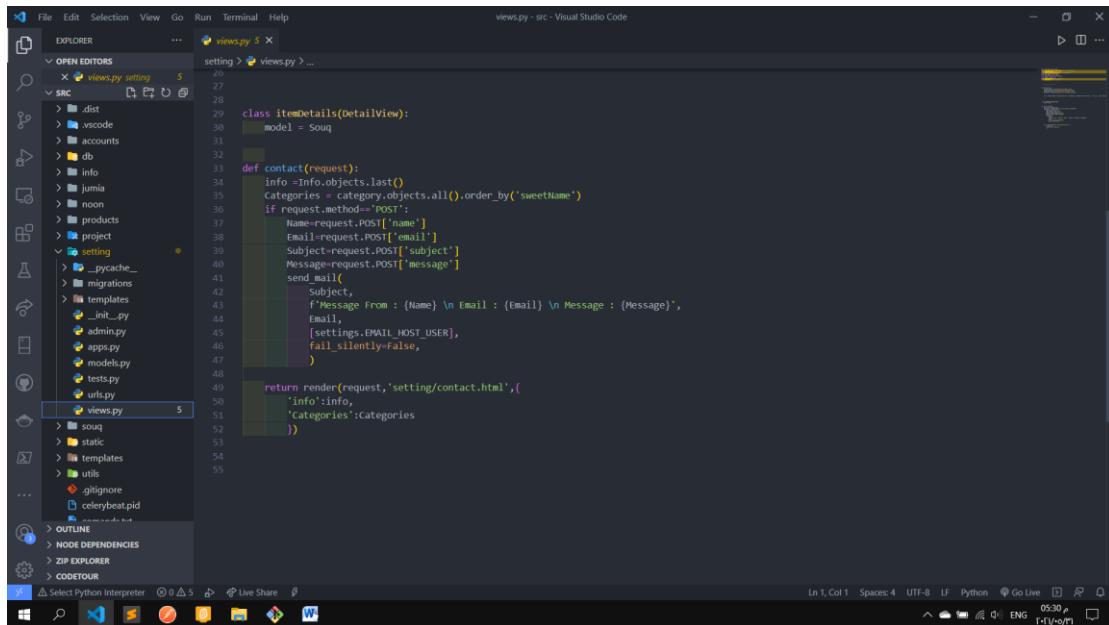


The screenshot shows the Visual Studio Code interface with the file `views.py` open. The code contains several syntax errors, which are highlighted in red and underlined. The errors are related to imports from modules like `moon`, `django.contrib.postgres.search`, `django.shortcuts`, `django.views.generic.detail`,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

```

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
11
12
13
14 # Create your views here.
15
16
17 def Home(request):
18     daSouq=objects.filter(manufacture='apple')[::20]
19     newSouq=objects.filter(manufacture='microsoft')[::10]
20     deals=Souq.objects.filter(manufacture='xiami')[::10]
21     Categories = category.objects.all().order_by('sweetName')
22
23     return render(request,'setting/home.html',{'Categories':Categories,"featured":da , "new":new , "deals":deals })
24
25
26
27
28
29 class itemDetails(DetailView):
30     model = Souq
31
32
33     def contact(request):
34         info =Info.objects.last()
35         Categories = category.objects.all().order_by('sweetName')
36         if request.method=="POST":
37             Name=request.POST['name']
38             Email=request.POST['email']
39             Subject=request.POST['subject']
40             Message=request.POST['message']
41             send_mail(
42                 subject,
43                 f'Message From : {Name} \n Email : {Email} \n Message : {Message}',
44                 Email,
45                 [settings.EMAIL_HOST_USER],
46                 fail_silently=False,
47             )
48
49     return render(request,'setting/contact.html',{
50         'info':info,
51         'Categories':Categories
52     })
53
54
55

```



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 are no longer present. The code defines two functions: `itemDetails` and `contact`. The `contact` function sends an email using the `send_mail` function.

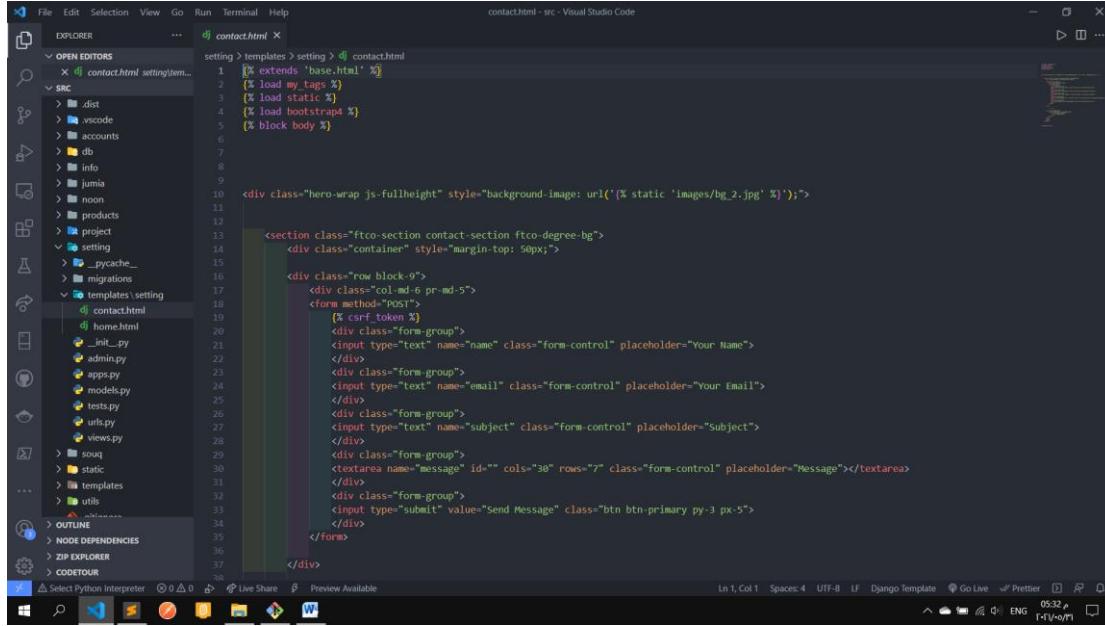
```

20
21
22
23
24
25
26
27
28
29 class itemDetails(DetailView):
30     model = Souq
31
32
33     def contact(request):
34         info =Info.objects.last()
35         Categories = category.objects.all().order_by('sweetName')
36         if request.method=="POST":
37             Name=request.POST['name']
38             Email=request.POST['email']
39             Subject=request.POST['subject']
40             Message=request.POST['message']
41             send_mail(
42                 subject,
43                 f'Message From : {Name} \n Email : {Email} \n Message : {Message}',
44                 Email,
45                 [settings.EMAIL_HOST_USER],
46                 fail_silently=False,
47             )
48
49     return render(request,'setting/contact.html',{
50         'info':info,
51         'Categories':Categories
52     })
53
54
55

```

7. Templates

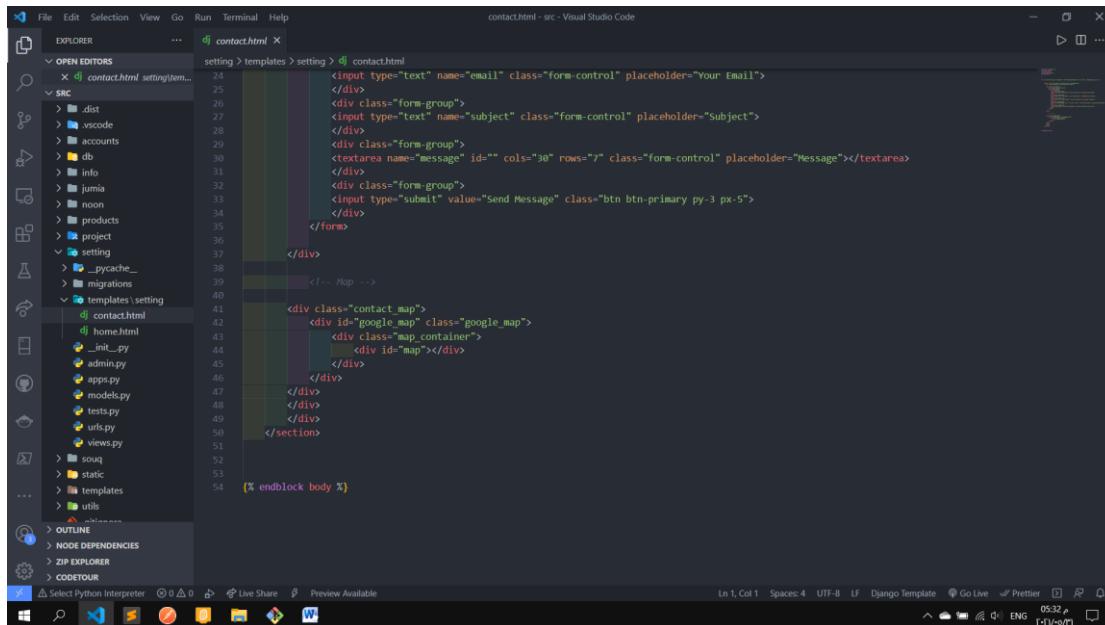
- o Setting/Contact.html



```

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

```

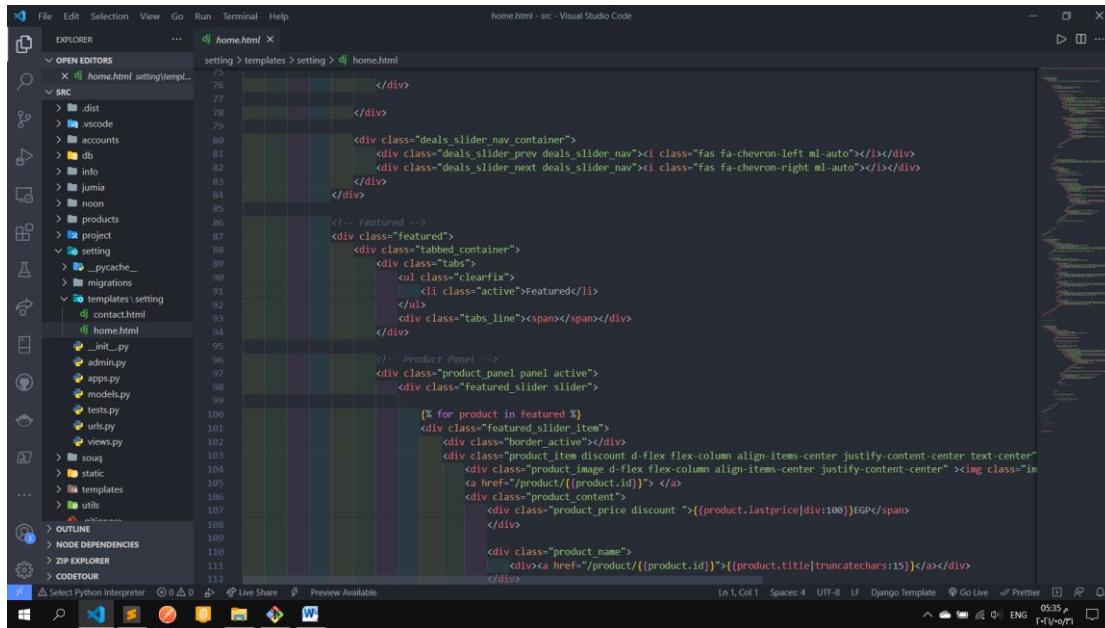
File Edit Selection View Go Run Terminal Help
OPEN EDITORS ... d| home.html x
setting > templates > setting > d| home.html
1 [% extends "base.html" %] (% load my_tags %) (% load static %) (% load bootstrap4 %) (% load mathfilters %) (% block body %)
2
3 <!-- Banner -->
4
5
6 <!-- Deals of the week -->
7
8 <div class="deals_featured">
9   <div class="container">
10    <div class="row">
11      <div class="col d-flex flex-lg-row flex-column align-items-center justify-content-start">
12        <!-- Deals -->
13
14        <div class="deals">
15          <div class="deals_title">Deals of the Week</div>
16          <div class="deals_slider_container">
17            <!-- Deal's Slider -->
18            <div class="owl-carousel owl-theme deals_slider">
19              <!-- Deals Item -->
20              {% for product in deals %}
21
22                <div class="owl-item deals_item">
23                  <div class="deals_image"></div>
24                  <div class="deals_content">
25                    <div class="deals_info_line d-flex flex-row justify-content-start">
26                      <div class="deals_item_category"><a href="#">{{product.category.sweetname}}</a></div>
27                    </div>
28                    <div class="deals_info_line d-flex flex-row justify-content-start">
29                      <div class="deals_item_name">{{product.title}}</div>
30                    </div>
31                    <div class="deals_item_price ml-auto">{{(product.lastprice|div:100)}|EGP}</div>
32                    <div class="center">
33                      <span id="rating_Val">{{product.rate|floatformat:1}}</span>
34                      <div class="rating"{{forloop.counter0|'style:inline-block'}}>{{forloop.counter0|'style:inline-block'}}</div>
35                    </div>
36
37
38
39
40
41
42
43
44
45
46
47
48
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51
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71

```

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS ... d| home.html x
setting > templates > setting > d| home.html
1 </div>
2 <div class="deals_item_price ml-auto">{{(product.lastprice|div:100)}|EGP}</div>
3 <div class="center">
4   <span id="rating_Val">{{product.rate|floatformat:1}}</span>
5   <div class="rating"{{forloop.counter0|'style:inline-block'}}>{{forloop.counter0|'style:inline-block'}}</div>
6 </div>
7 <div class="deals_timer d-flex flex-row align-items-center justify-content-start">
8   <div class="deals_timer_title_container">
9     <div class="deals_timer_title">Hurry Up</div>
10    <div class="deals_timer_subtitle">Offer ends in:</div>
11  </div>
12  <div class="deals_timer_content ml-auto">
13    <div class="deals_timer_box clearfix" data-target-time=">">
14      <div class="deals_timer_unit">
15        <div id="deals_timer_1_hr" class="deals_timer_hr"></div>
16        <span>hours</span>
17      </div>
18      <div class="deals_timer_unit">
19        <div id="deals_timer_1_min" class="deals_timer_min"></div>
20        <span>mins</span>
21      </div>
22      <div class="deals_timer_unit">
23        <div id="deals_timer_1_sec" class="deals_timer_sec"></div>
24        <span>secs</span>
25      </div>
26    </div>
27  </div>
28 </div>
29 <% endfor %>
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
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```



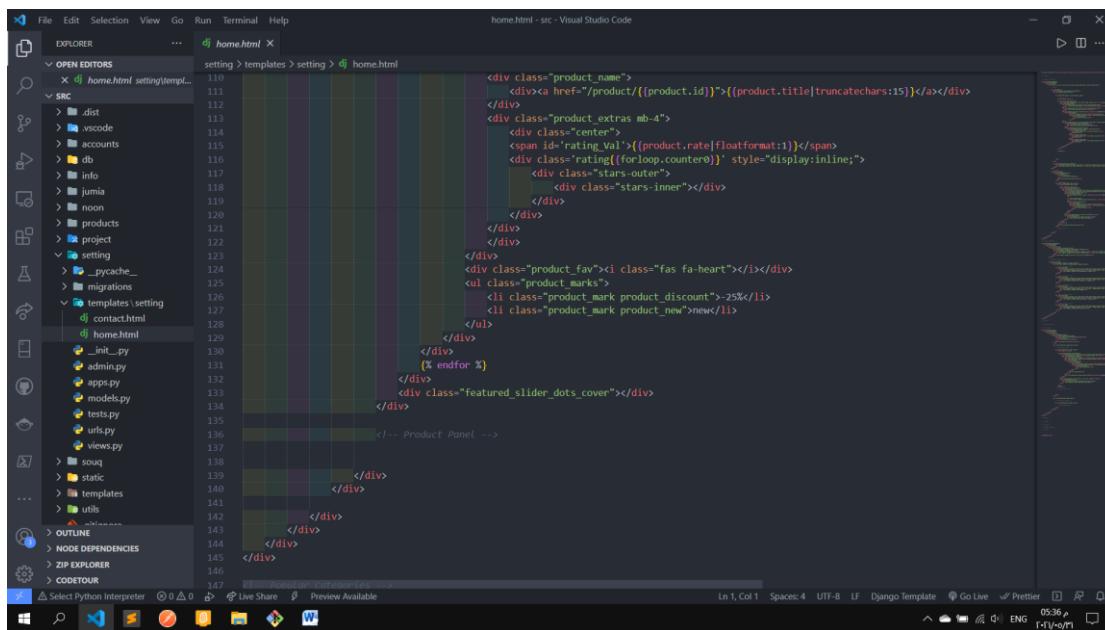
```

<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}}
    <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>

```

File Edit Selection View Go Run Terminal Help

OPEN EDITORS **home.html**

SRC

```

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 <!-- 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 <!-- OUTLINE -->
199 <!-- NODE DEPENDENCIES -->
200 <!-- ZIP EXPLORER -->
201 <!-- CODE TOUR -->

```

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

File Edit Selection View Go Run Terminal Help

OPEN EDITORS **home.html**

SRC

```

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 <!-- OUTLINE -->
199 <!-- NODE DEPENDENCIES -->
200 <!-- ZIP EXPLORER -->
201 <!-- CODE TOUR -->

```

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

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

EXPLORER ... home.html x
OPEN EDITORS setting > templates > setting > d) home.html
src
  > .git
  > vscode
  > accounts
  > db
  > info
  > noon
  > products
  > project
  > setting
    > __pycache__
    > migrations
    > templates > setting
      d) contact.html
      d) home.html
        _init_.py
        admin.py
        apps.py
        models.py
        tests.py
        urls.py
        views.py
    > souq
    > static
    > templates
    > utils
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter 0 0 ▾ Live Share ⌂ Preview Available
In 214 Col 7 Spaces:4 UTF-8 LF Django Template Go Live ⌂ Prettier ENG 0538_p F1-F9/YI
```

```
<!-- Popular Categories Item -->
<div class="owl-item">
  <div class="popular_category_d-flex flex-column align-items-center justify-content-center">
    <div class="popular_category_image"></div>
    <div class="popular_category_text">Accessories</div>
  </div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<div class="best_sellers">
  <div class="container">
    <div class="row">
      <div class="col">
        <div class="tabbed_container">
          <div class="tabs clearfix tabs-right">
            <div class="new_arrivals_title">Hot Best Sellers</div>
            <ul class="clearfix">
              <li class="active">New Product</li>
            </ul>
            <div class="tabs_line"><span></span></div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
<div class="bestsellers_panel panel active">
  <!-- Best Sellers Slider -->
  <div class="bestsellers_slider slider">
    {# For product in new #}
    <div class="bestsellers_item_discount">
      <div class="bestsellers_item_container d-flex flex-row align-items-center justify-content-start">
```

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 includes sections for best sellers, new arrivals, and a slider.
- Bottom Status Bar:** Shows file statistics: Line 248, Col 63; Spaces: 4; UTF-8; LF; Django Template; Go Live; Prettier.
- Bottom Icons:** Includes icons for Python Interpreter, Save, Undo, Redo, Live Share, Preview Available, and others.

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS setting > templates > setting > home.html
SRC
<div>
    <div> {{ product.rating }}</div>
    <div> {{ product.lastprice }}EGP</div>
</div>
<div> {{ product.active }}</div>
<ul>
    <li> {{ product.discount }}%</li>
    <li> {{ product.new }}</li>
</ul>
</div>
<div> {{ product.info }}</div>
<div> {{ product.slider }}</div>
</div>
<div> {{ product.body }}</div>

```

8. Migrations

- 0001_initial.py

```

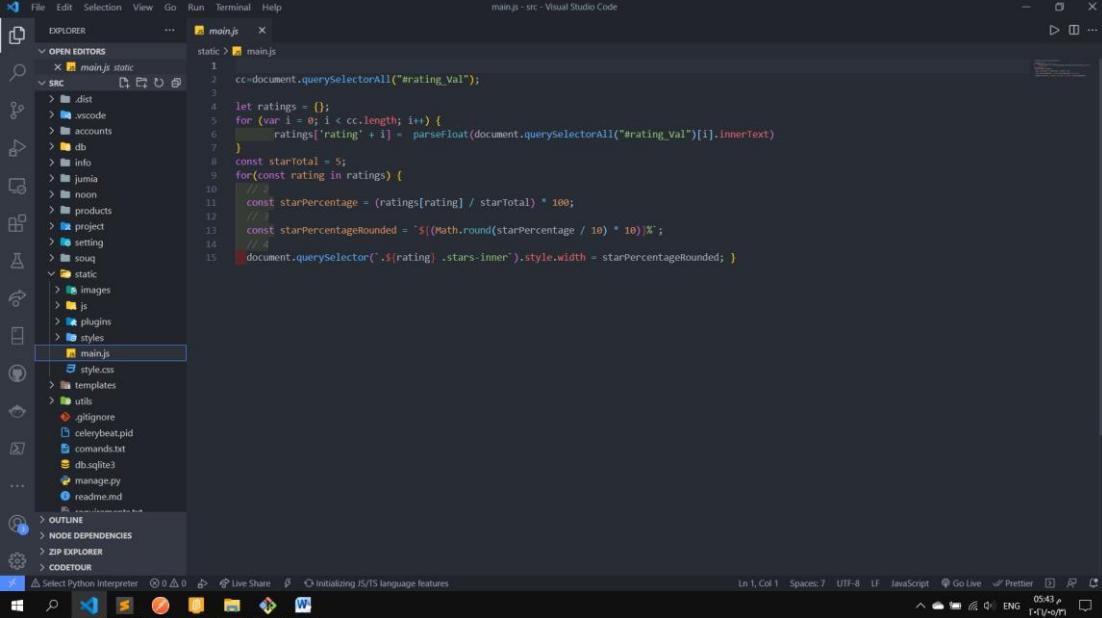
File Edit Selection View Go Run Terminal Help
OPEN EDITORS setting > migrations > 0001_initial.py
SRC
# Generated by Django 3.1.7 on 2021-05-27 09:43
from django.db import migrations, models
import django.db
import "django.db" could not be resolved from source

class Migration(migrations.Migration):
    initial = True
    dependencies = [
    ]
    operations = [
        migrations.CreateModel(
            name='Info',
            fields=[
                ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
                ('name', models.CharField(max_length=100)),
                ('logo', models.ImageField(upload_to='info/')),
                ('description', models.TextField(max_length=300)),
                ('address', models.TextField(max_length=200)),
                ('phone_number', models.CharField(max_length=200)),
                ('email', models.EmailField(max_length=60)),
            ],
            options={
                'verbose_name': 'Info',
                'verbose_name_plural': 'Infos',
            },
        ),
    ],

```

Static:

- 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

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 // ...

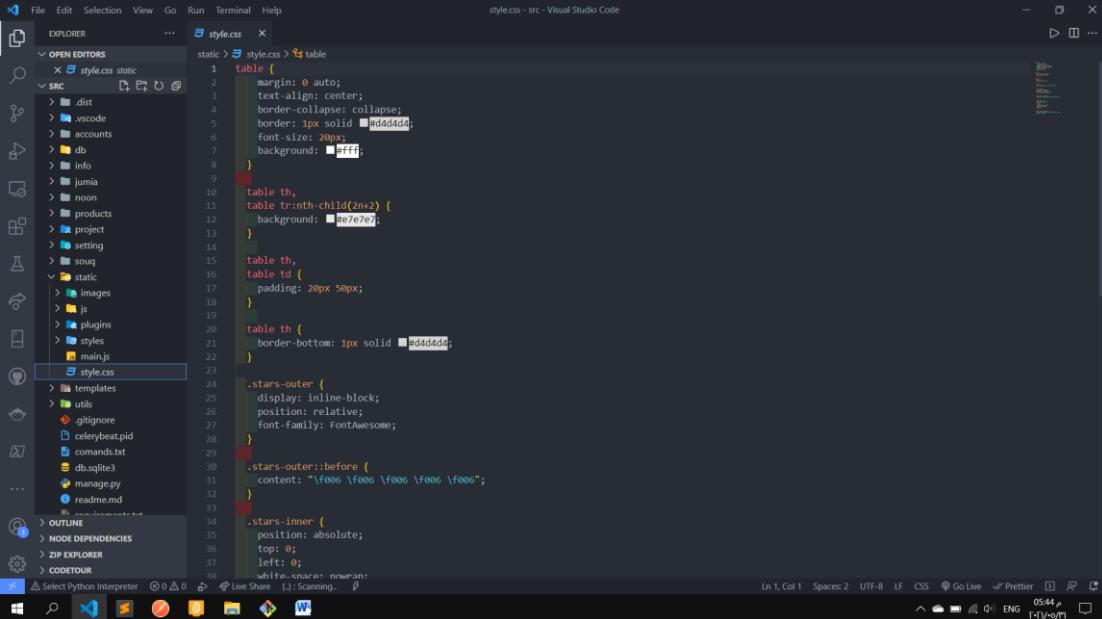
12 const starPercentageRounded = `\${(Math.round(starPercentage / 10) * 10)}%`;

13 // ...

14 document.querySelector(`#\${rating}.stars-inner`).style.width = starPercentageRounded;

15

- 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 > 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 }

```

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
22
23

```

- o Requirements

```

1 amp==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

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

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** requirements.txt - src - Visual Studio Code
- Left Sidebar (Explorer):**
 - OPEN EDITORS
 - requirements.txt
 - SRC
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - static
 - templates
 - utils
 - gitignore
 - celerybeat.pid
 - commands.txt
 - db.sqlite3
 - manage.py
 - readme.md
 - requirements.txt
 - scrapinglumify.py
 - scrapingnoon.py
- Center Area (Editor):** The content of the requirements.txt file is displayed:

```
jsonfield==3.1.0
 kombu==4.6.11
 lxm==4.6.3
 markupSafe==2.0.1
 mypy-extensions==0.4.3
 numpy==1.20.2
 pandas==1.2.4
 parsel==1.19.0
 pathspec==0.8.1
 pillow==8.2.0
 plumbum==1.7.0
 prometheus-client==0.8.0
 prompt-toolkit==3.0.18
 psycopg2==2.8.6
 pycodestyle==2.7.0
 pycparser==2.20
 pyee==3.1.0
 pipwin32==223
 pyppeteer==0.2.5
 pyquery==1.4.3
 python-crontab==2.5.1
 python-dateutil==2.8.1
 pytz==2021.1
 pywin32==300
 recordlinkage==0.14
 redis==3.5.3
 regex==2021.3.17
 requests==2.25.1
 requests-html==0.18.0
 rpyc==5.6.1
 scikit-learn==0.24.1
 six==1.16.2
 six==1.15.0
 soupsieve==2.3.1
 sqlparse==0.4.1
 swapper==1.1.2.post1
 thredpoolclt==2.1.0
```
- Bottom Status Bar:** Line 1, Col 1 | Spacers: 4 | UTF-8 | LF | pip requirements | Go Live | 0549 | ENG | F1|V0|M

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 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'UF', 'pip requirements', 'Go Live', and other system icons.

- **Scraping [Jumia]**

```

File Edit Selection View Go Run Terminal Help
scrapingJumia.py - src - Visual Studio Code
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 "sys" is not accessed
4 import sys
5
6 os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'project.settings')
7 django.setup()
8
9 from jumia.models import Jumia
10 from products.models import category
11
12 Categories = [
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": "vivo-realty-phones-tablets", "verbose": "VR"}, 
16     {"id": 4, "url": "mobile-phones", "verbose": "Mobile Phone"}, 
17     {"id": 5, "url": "tablets", "verbose": "Tablet"}, 
18     {"id": 6, "url": "laptops", "verbose": "Laptop Notebook"}, 
19     {"id": 7, "url": "computer-networking-switches", "verbose": "Network Switch"}, 
20     {"id": 8, "url": "computer-networking-routers", "verbose": "Routers"}, 
21     {"id": 9, "url": "computer-keyboards", "verbose": "Keyboards"}, 
22     {"id": 10, "url": "computer-components-computer-cases", "verbose": "Computer Casing"}, 
23     {"id": 11, "url": "mobile-phone-accessories-cables", "verbose": "Cables"}, 
24     {"id": 12, "url": "laptop-chargers-adapters", "verbose": "Laptop Charger"}, 
25     {"id": 13, "url": "mobile-phone-bluetooth-headsets", "verbose": "Headphones and Headsets"}, 
26     {"id": 14, "url": "mobile-phone-memory-cards", "verbose": "Memory Card"}, 
27     {"id": 15, "url": "mobile-accessories", "verbose": "Mobile Phone Accessories"}, 
28     {"id": 16, "url": "mobile-phone-accessories-power-banks", "verbose": "Power Banks"}, 
29     {"id": 17, "url": "tablet-accessories", "verbose": "Tablet Accessories"}, 
30     {"id": 18, "url": "smart-watches", "verbose": "Smart Watches"}, 
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     category = f"https://www.jumia.com.eg/{url}/page-{page}"
46     response = requests.request("GET", category, 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
56     # response = requests.request("GET", url, headers=headers).json()
57     # x=response['viewData'][0]['products']
58
59     # for items in x:
60         # sha-items["sha"]
61         # title-items["name"]
62         # image-url-items["image"]
63         # primary_link-items["url"]
64         # lastprice-items["prices"]["rawPrice"]
65         # manufacturer-items["brand"]
66         # x.fullDescriptiongetDescription(primary_link)
67         # x.fullDescription.getSubDescription(primary_link)
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```

```

scrapinglumia.py - src - Visual Studio Code

OPEN EDITORS
scrapinglumia.py 2
scrapinglumia.py > ...

src
scrapinglumia.py
jumia
noon
products
project
setting
souq
static
templates
utils
ignore
celerybeat.pid
commands.txt
db.sqlite3
manage.py
readme.md
requirements.txt
scrapinglumia.py 2
scrapingnoon.py

def dbSave(URL,id):
    i=0
    pages=1
    while getFullCategory(URL,page=pages):
        fulldata=getFullCategory(URL,page=pages)
        for item in fulldata:
            skuItems["sku"]
            title=item["name"]
            try:
                image_url=item["image"]
            except:
                image_url=None
            primary_link=item["url"]
            lastprice=item["prices"]["rawPrice"]
            manufacturer=item["brand"]
            fullDescription="em Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scattered it across the page, adjusting the spaces between the letters to make it look like readable English. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum."
            active=True
            rating=item["rating"]["average"]
            categoryObj=category.objects.get(pk=id)
            try:
                c=jumia.objects.create(sku=sku,title=title,manufacture=manufacturer,description=fullDescription,img=image_url,url=primary_link,
                c.save()
            except:
                pass
            print(i)
            i=i+1
        pages=pages+1
        print(pages)

for c in Categories:
    print(f"Scraping({c['verbose']} now")
    dbSave(c['url'],c['id'])

Ln 1, Col 1 Spaces: 4 UTF-8 CR/LF Python Go Live ⚡ 0552 ENG 🔍/🔍

```

❖ Scraping [Noon]

```

scrapingnoon.py - src - Visual Studio Code

OPEN EDITORS
scrapingnoon.py 2
scrapinglumia.py > ...

src
scrapinglumia.py
jumia
noon
products
project
setting
souq
static
templates
utils
ignore
celerybeat.pid
commands.txt
db.sqlite3
manage.py
readme.md
requirements.txt
scrapinglumia.py
scrapingnoon.py 2

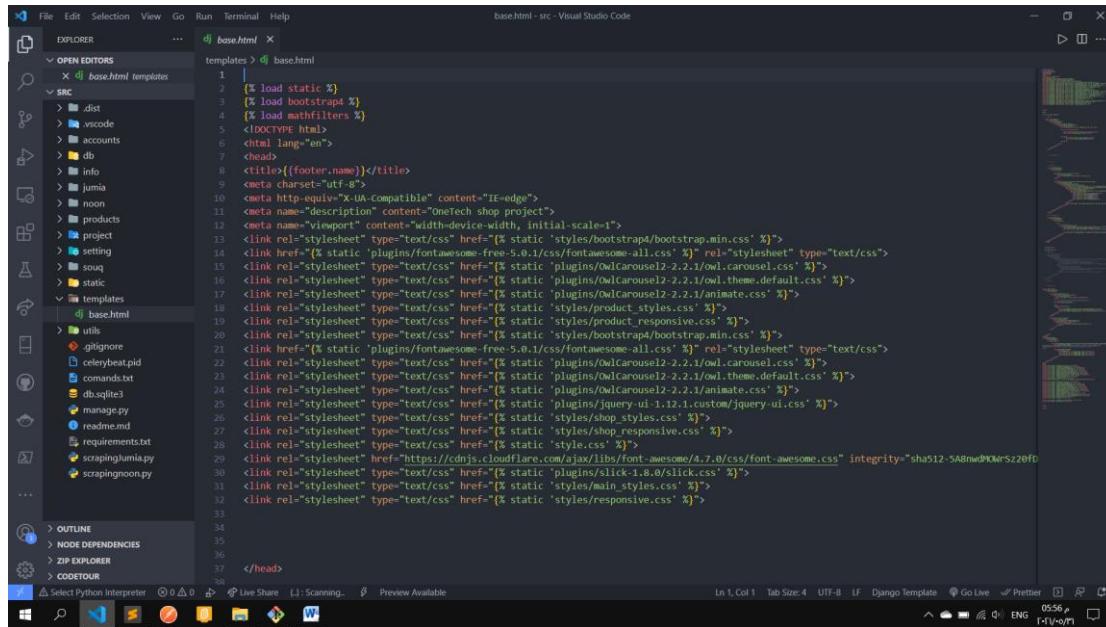
import requests
import os
import django
from noon.models import Noon
from products.models import category
Categories = [
    {"id": 1, "url": ["electronics-and-mobiles/video-games-10181"], "verbose": "Games Console"},
    {"id": 4, "url": ["virtual-reality-phones-tablets"], "verbose": "VR"},
    {"id": 5, "url": ["electronics-and-mobiles/mobiles-and-accessories"], "verbose": "Mobile Phone"},
    {"id": 8, "url": ["electronics-and-mobiles/computers-and-accessories"], "verbose": "Computers"},
    {"id": 23, "url": ["electronics-and-mobiles/wearable-technology"], "verbose": "Smart Watches"},
]
headers = {
    'authority': 'www.noon.com',
    'pragma': 'no-cache',
    'cache-control': 'no-cache, max-age=0, must-revalidate, no-store',
    'x-locale': 'en-eg',
    'x-content': 'mobile',
    'x-platform': 'web',
    'x-csrf': 'v2',
    'content-type': 'application/json',
    'accept': 'application/json, text/plain, */*',
    'user-agent': 'Mozilla/5.0 (iPhone; CPU iPhone OS 13_2_3 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/13.0.3 Mobile/15E148 S',
    'sec-fetch-site': 'same-origin',
    'sec-fetch-mode': 'cors',
    'sec-fetch-dest': 'empty',
    'referer': 'https://www.noon.com/egypt-en/electronics-and-mobiles/mobiles-and-accessories/mobiles-20905/apple',
    'accept-language': 'en-US,en;q=0.9,ar;q=0.8',
}
def getFullCategory(url=['electronics-and-mobiles/wearable-technology'],page=1):
    url=url[0]
    url=f"https://www.noon.com/{url}/curated/search?search="

Ln 1, Col 1 Spaces: 4 UTF-8 CR/LF Python Go Live ⚡ 0553 ENG 🔍/🔍

```


Templates:

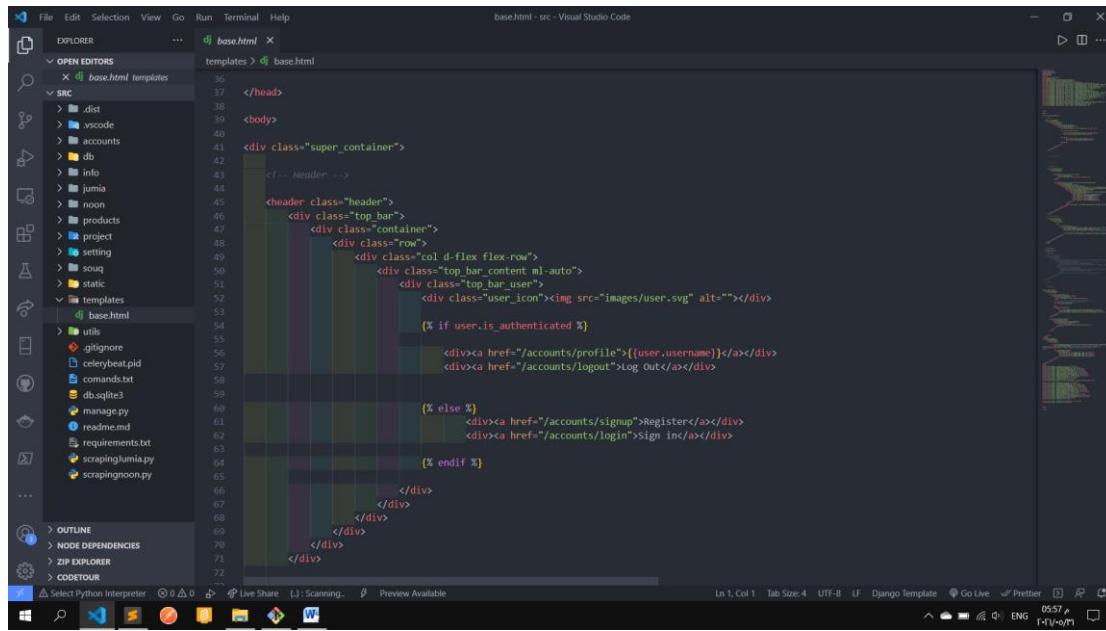
- Base.html



```

<!DOCTYPE html>
<html lang="en">
    <head>
        <title>{{ footer.name }}</title>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="description" content="OneTech shop project">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <link rel="stylesheet" type="text/css" href="{% static 'styles/bootstrap/bootstrap.min.css' %}">
        <link href="{% static 'plugins/fontawesome-free-5.0.1/css/fontawesome-all.css' %}" rel="stylesheet" type="text/css">
        <link rel="stylesheet" type="text/css" href="{% static 'plugins/owlCarousel2-2.2.1/owl.carousel.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'plugins/owlCarousel2-2.2.1/owl.theme.default.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'plugins/owlCarousel2-2.2.1/animate.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'styles/product_styles.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'styles/product_responsive.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'styles/bootstrap/bootstrap.min.css' %}">
        <link href="{% static 'plugins/fontawesome-free-5.0.1/css/fontawesome-all.css' %}" rel="stylesheet" type="text/css">
        <link rel="stylesheet" type="text/css" href="{% static 'plugins/owlCarousel2-2.2.1/owl.carousel.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'plugins/owlCarousel2-2.2.1/owl.theme.default.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'plugins/owlCarousel2-2.2.1/animate.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'plugins/jquery-ui-1.12.1.custom/jquery-ui.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'styles/shop_styles.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'styles/shop_responsive.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'style.css' %}">
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.css" integrity="sha512-SABmed0MzZ2zf0" type="text/css">
        <link rel="stylesheet" type="text/css" href="{% static 'plugins/slick-1.8.0/slick.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'styles/main_styles.css' %}">
        <link rel="stylesheet" type="text/css" href="{% static 'styles/responsive.css' %}">
    </head>

```



```

<body>
    <div class="super_container">
        <!-- Header -->
        <header class="header">
            <div class="top_bar">
                <div class="container">
                    <div class="row">
                        <div class="col d-flex flex-row">
                            <div class="top_bar_content ml-auto">
                                <div class="top_bar_user">
                                    <div class="user_icon"></div>
                                    {% if user.is_authenticated %}
                                        <div><a href="/accounts/profile">{{ user.username }}</a></div>
                                        <div><a href="/accounts/logout">Logout</a></div>
                                    {% else %}
                                        <div><a href="/accounts/signup">Register</a></div>
                                        <div><a href="/accounts/login">Sign In</a></div>
                                    {% endif %}
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </header>
        <div class="main_content">
            <div class="container">
                <div class="row">

```

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

- File Explorer (Left):** Shows the project structure with folders like `base.html templates`, `src`, and files such as `base.html`, `db.sqlite3`, `manage.py`, `README.md`, and several Python files.
- Code Editor (Center):** Displays the `base.html` template file. The code includes HTML structure for a header, search bar, and a dropdown menu for categories. A cursor is visible near the end of the file.
- Status Bar (Bottom):** Shows the current file is `base.html - src - Visual Studio Code`. It also displays the line number (108), column number (Col 15), tab size (4), encoding (UTF-8), and other settings like `Django Template`.

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

- File Explorer (Left):** Shows the project structure with files like `base.html`, `base.html templates`, and `templates`.
- Code Editor (Center):** Displays the `base.html` template code. The code includes navigation bars, a main content area, and a newsletter section. A tooltip for the `fa fa-chevron-down` class is visible over the "Contact" link.
- Terminal (Bottom Left):** Shows the command `Select Python Interpreter`.
- Status Bar (Bottom):** Shows the current file is `base.html - src - Visual Studio Code`, with line 136, column 14, tab size 4, and UTF-8 encoding.

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

- File Explorer (Left):** Shows the project structure with files like `base.html`, `base.html.templates`, `db.sqlite3`, `manage.py`, `requirements.txt`, and `scrapinghmlia.py`.
- Editor (Center):** Displays the `base.html` template file. The code includes footer sections with contact information, social media links, and a category list.
- Bottom Status Bar:** Shows the current file is `base.html - src - Visual Studio Code`, with line 136, column 14, tab size 4, and UTF-8 encoding.
- Bottom Icons:** Includes icons for Python Interpreter, Share, Scan, Preview Available, Go Live, CodeTuner, and Preferences.

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

- File Explorer:** Shows a tree view of files and folders. The 'templates' folder contains 'base.html'. Other visible files include 'base.html.templates', 'src', 'utils', 'gitignore', 'celerybeat.pid', 'commands.txt', 'db.sqlite3', 'manage.py', 'readme.md', 'requirements.txt', 'scrapinglumia.py', and 'scrapingnoon.py'.
- Code Editor:** The main editor area displays the 'base.html' template code. The code includes sections for footer links, a footer list, copyright information, and logos. A status bar at the bottom indicates the file is at line 206, column 19, with a tab size of 4, UTF-8 encoding, and a Django template context.
- Activity Bar:** At the bottom, there are icons for Python Interpreter, Live Share, Scanning, Preview Available, Go Live, and a prettier button.

APC

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

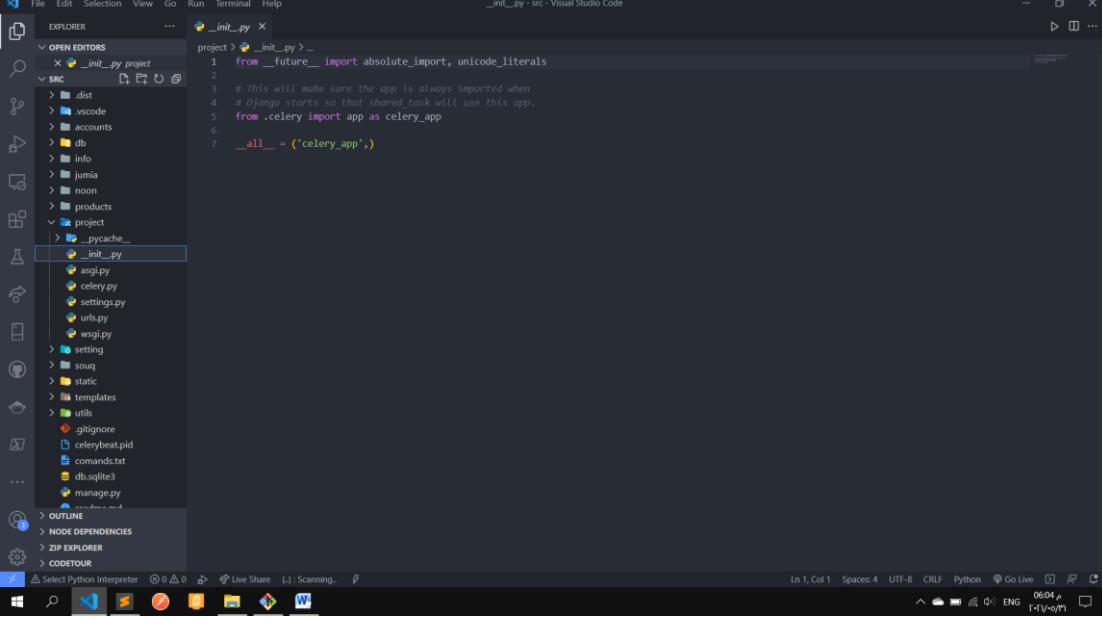
- File Explorer (Left):** Shows the project structure with files like `base.html`, `base.html.templates`, `utils`, `gitignore`, `celerybeat.pid`, `commands.txt`, `db.sqlite3`, `manage.py`, `readme.md`, `requirements.txt`, `scrappingham.py`, and `scrapingnoon.py`.
- Open Editors (Top):** Displays the `base.html` file.
- Code Editor (Main):** The `base.html` template is displayed, containing HTML and CSS code. It includes a logo section with four items and a script section with multiple static file imports.
- 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
 - SRC
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - static
 - templates
 - base.html
 - 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:

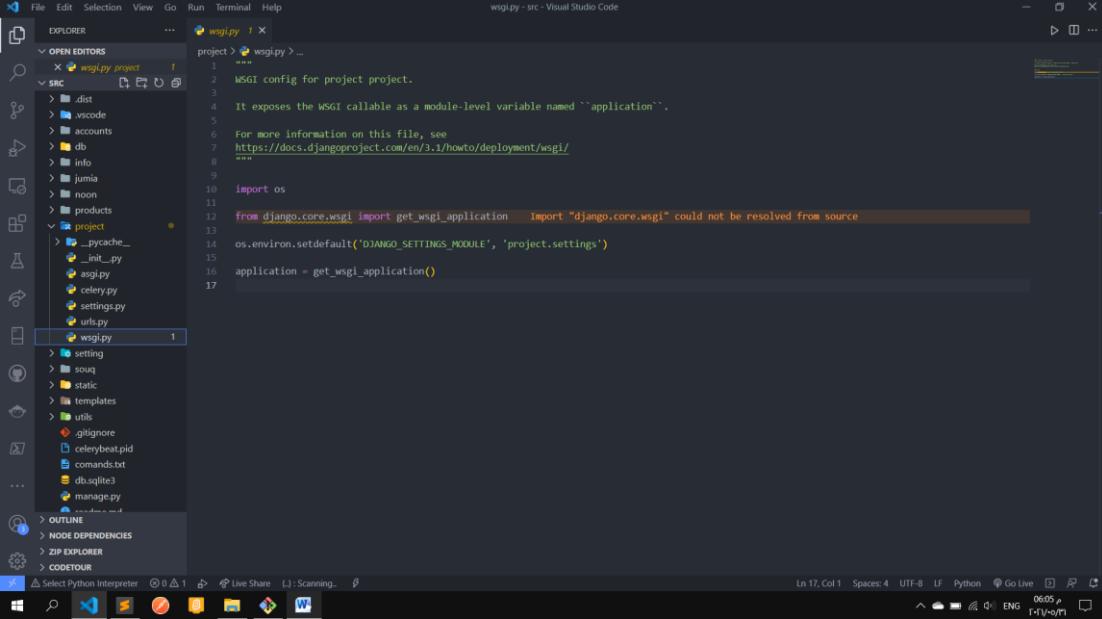
1. __init__.py



```
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 imports `absolute_import` and `unicode_literals` from `__future__`. It then defines a `celery_app` variable by importing it from the `celery` module. Finally, it lists `'celery_app'` under the `__all__` variable.

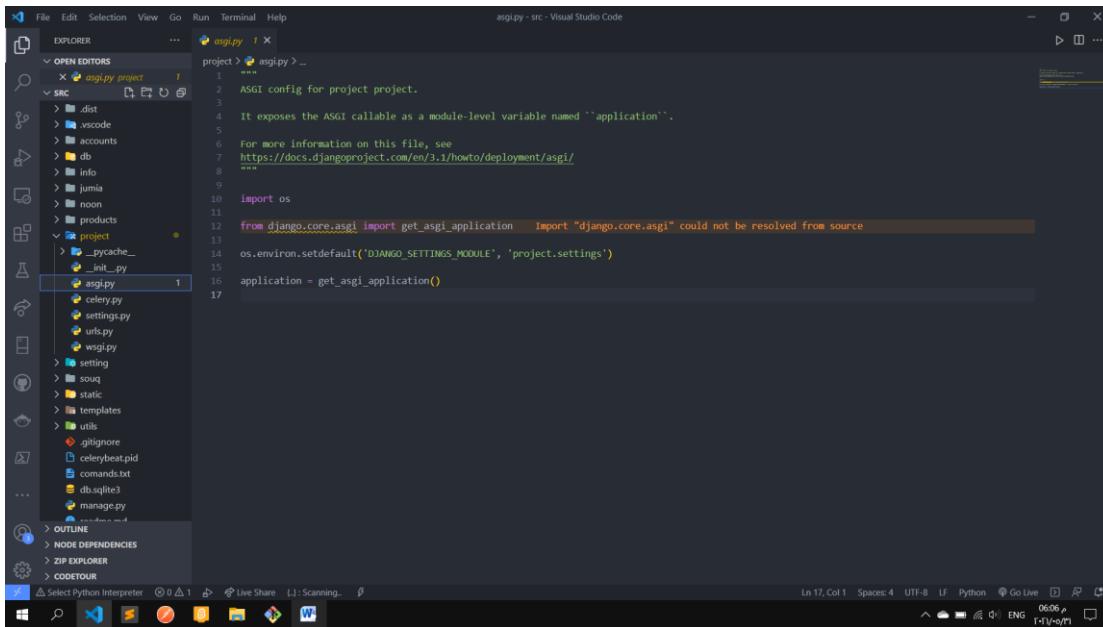
2. wsgi.py



```
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 contains a multi-line comment block. It imports `get_wsgi_application` from `django.core.wsgi`. It then sets the `DJANGO_SETTINGS_MODULE` environment variable to `'project.settings'` and finally calls `get_wsgi_application()`.

3. asgi.py



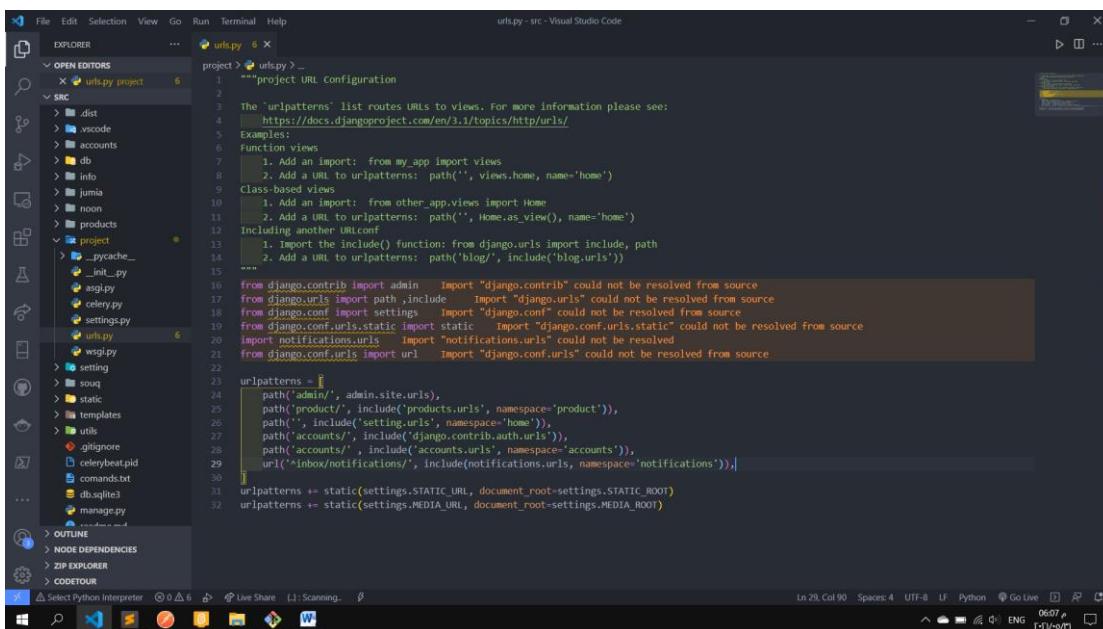
The screenshot shows the Visual Studio Code interface with the 'asgi.py' file open in the editor. The code defines an ASGI callable named 'application' using the 'get_asgi_application' function from 'django.core.asgi'. It also sets the environment variable 'DJANGO_SETTINGS_MODULE' to 'project.settings'. The code editor has syntax highlighting and a status bar at the bottom indicating the file is 17 lines long.

```

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 'urls.py' file open in the editor. The code defines a URL configuration for the 'blog' application, including class-based views for home pages and URLs for the admin panel. It uses the 'include' function to include other URL patterns. The code editor has syntax highlighting and a status bar at the bottom indicating the file is 32 lines long.

```

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 ... urls.py 6 celery.py 1 ...
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()

```

The screenshot shows the Visual Studio Code interface with the 'celery.py' file open. The file contains code to set up a Celery application. A red squiggle under the word 'celery' in the first line indicates that the import statement cannot be resolved. The code also includes configuration for Celery to use the Django settings and autodiscover tasks.

6. Settings

```

File Edit Selection View Go Run Terminal Help
settings.py - src - Visual Studio Code
EXPLORER OPEN EDITORS ... settings.py ...
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 ]

```

The screenshot shows the Visual Studio Code interface with the 'settings.py' file open. This file defines the Django project's settings, including the base directory, secret key, and a list of installed applications. It also includes comments about quick-start development settings and security warnings.

APC

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

- File Explorer (Left):** Shows the project structure with files like `settings.py`, `urls.py`, `wsgi.py`, and `celery.py`.
- Code Editor (Center):** Displays the `settings.py` file content.
- Status Bar (Bottom):** Shows "Ln 1, Col 1" and other system information.

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

EXPLORER ... settings.py x
OPEN EDITORS project > settings.py > ...
SRC
  - dict
  - vscode
  - accounts
  - db
  - info
  - jumia
  - noon
  - products
  - project
    - _pycache_
      - __init__.py
      - asgi.py
      - celery.py
      - settings.py
      - urls.py
      - wsgi.py
    - setting
    - souq
    - static
    - templates
    - utils
      - __init__.py
      - gitignore
      - celerybeat.pid
      - commands.txt
      - db.sqlite3
      - manage.py
    - OUTLINE
    - NODE DEPENDENCIES
    - ZIP EXPLORER
    - CODEDITOR
Select Python Interpreter 0 0 0 Live Share (-) Scanning... Python Go Live
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python ENG [H1/0/0] 06:10 p

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
91 # Database
92 # https://docs.djangoproject.com/en/3.1/ref/settings/#databases
93
94 DATABASES = {
95     'default': {
96         'ENGINE': 'django.db.backends.postgresql_psycopg2',
97         'NAME': 'ABC0',
98         'USER': 'postgres',
99         'PASSWORD': 'dama20499',
100        'HOST': '127.0.0.1',
101        'PORT': '5432'
102    }
103 }
```

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS ... project > settings.py > ...
SRC
  > settings.py project
    > __init__.py
    > asgi.py
    > celery.py
    > settings.py
      > settings.py
        # Database
        # https://docs.djangoproject.com/en/3.1/ref/settings/#databases
        DATABASES = {
            'default': {
                'ENGINE': 'django.db.backends.postgresql_psycopg2',
                'NAME': 'ACDO',
                'USER': 'postgres',
                'PASSWORD': 'diana20499',
                'HOST': '127.0.0.1',
                'PORT': '5432'
            }
        }
        # Password validation
        # https://docs.djangoproject.com/en/3.1/ref/settings/#auth-password-validation
        AUTH_PASSWORD_VALIDATORS = [
            {
                'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
            },
            {
                'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
            },
            {
                'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
            },
            {
                'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
            }
        ]
        # Internationalization
        # https://docs.djangoproject.com/en/3.1/topics/i18n/
LANGUAGE_CODE = 'en-us'
TIME_ZONE = 'UTC'
USE_I18N = True
USE_L10N = True
USE_TZ = True
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/3.1/howto/static-files/
STATIC_URL = '/static/'
STATICFILES_DIRS = [
    BASE_DIR / "static",
    "/var/www/static/",
]
MEDIA_URL = '/media/'
EMAIL_BACKEND = 'django.core.mail.backends.smtp.EmailBackend'
EMAIL_HOST = 'smtp.gmail.com'
EMAIL_HOST_USER = 'djibrco@gmail.com'
EMAIL_HOST_PASSWORD = 'sbzzdgakymttypsw'
EMAIL_USE_TLS = True
EMAIL_PORT = '587'
CELERY_BROKER_URL = 'redis://localhost:6379'

```

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS ... project > settings.py > ...
SRC
  > settings.py project
    > __init__.py
    > asgi.py
    > celery.py
    > settings.py
      > settings.py
        # Database
        # https://docs.djangoproject.com/en/3.1/ref/settings/#databases
        DATABASES = {
            'default': {
                'ENGINE': 'django.db.backends.postgresql_psycopg2',
                'NAME': 'ACDO',
                'USER': 'postgres',
                'PASSWORD': 'diana20499',
                'HOST': '127.0.0.1',
                'PORT': '5432'
            }
        }
        # Password validation
        # https://docs.djangoproject.com/en/3.1/ref/settings/#auth-password-validation
        AUTH_PASSWORD_VALIDATORS = [
            {
                'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
            },
            {
                'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
            },
            {
                'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
            },
            {
                'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
            }
        ]
        # Internationalization
        # https://docs.djangoproject.com/en/3.1/topics/i18n/
LANGUAGE_CODE = 'en-us'
TIME_ZONE = 'UTC'
USE_I18N = True
USE_L10N = True
USE_TZ = True
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/3.1/howto/static-files/
STATIC_URL = '/static/'
STATICFILES_DIRS = [
    BASE_DIR / "static",
    "/var/www/static/",
]
MEDIA_URL = '/media/'
EMAIL_BACKEND = 'django.core.mail.backends.smtp.EmailBackend'
EMAIL_HOST = 'smtp.gmail.com'
EMAIL_HOST_USER = 'djibrco@gmail.com'
EMAIL_HOST_PASSWORD = 'sbzzdgakymttypsw'
EMAIL_USE_TLS = True
EMAIL_PORT = '587'
CELERY_BROKER_URL = 'redis://localhost:6379'

```

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

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 st... https://	272461422300	true	45000		
2	19448	Atari Mario Includes Accessor... atari	em ipsum is st... https://	2725610768758	true	24700		
3	19450	Retro Mini TV Handheld Famili... other	em ipsum is st... https://	2724675748202	true	53100		
4	19451	Retro Classic Game Console ... other	em ipsum is st... https://	2724615380151	true	58000		
5	19452	GameSir V2X AimSwitch Gam... gamesir	em ipsum is st... https://	2725610125148	true	250000		
6	19453	Wooden Pattern Decal Skin C... memoria	em ipsum is st... https://	2724209618676	true	19400		
7	19457	Console and 2 Controller Doc... other	em ipsum is st... https://	2724297837481	true	49900		
8	19458	DELUXE CONSOLE Case Mat... pdp	em ipsum is st... https://	272474891945	true	49900		
9	19460	Silicone Cover For Playstation... other	em ipsum is st... https://	2724448204447	true	6900		
10	19461	For PlayStation 4 PS4 - 4 Cont... other	em ipsum is st... https://	2724312757121	true	59900		
11	19467	Xbox One Wireless Controller	microsoft	em ipsum is st... https://	2724285419125	true	70000	
12	19468	Sony PlayStation 4 pro 1 TB ... sony	em ipsum is st... https://	2724556199251	true	105000		
13	19469	PVP Station Light 3000	pvp	em ipsum is st... https://	2724541600076	true	17200	
14	19470	Q6 Handheld Game Console a... other	em ipsum is st... https://	2724710173448	true	19800		
15	19472	Sony Playstation 4 Slim 500 G... sony	em ipsum is st... https://	2724669287135	true	680000		

4. Category

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	London Phoners

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:** Shows recent actions and my actions.
- Bottom status bar:** Displays system icons, battery level (0622), and language (ENG).

6. Notifications

The screenshot shows the Django admin interface for notifications:

- Left sidebar:** Lists the same models as the main dashboard.
- Center content:** A table titled "Select notification to change" showing two notifications for the "admin" user at the "info" level. The columns are: Action, RECIPIENT, ACTOR, LEVEL, TARGET, UNREAD, and PUBLIC.
- Right sidebar:** Contains filters for:
 - 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 status bar:** Displays system icons, battery level (0623), and language (ENG).

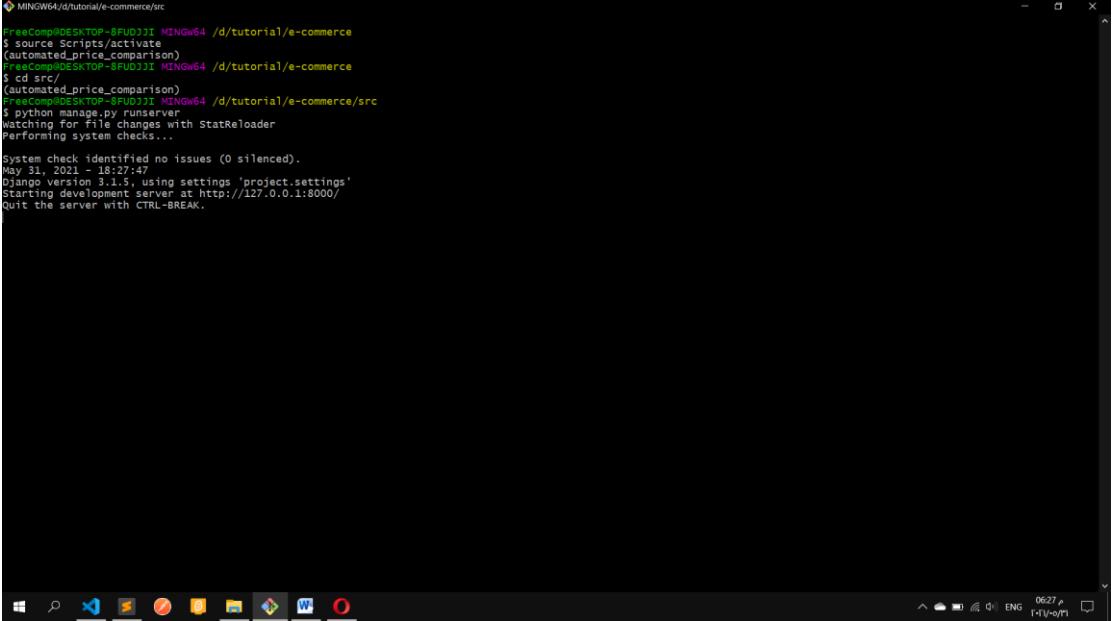
7. Periodic Tasks

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

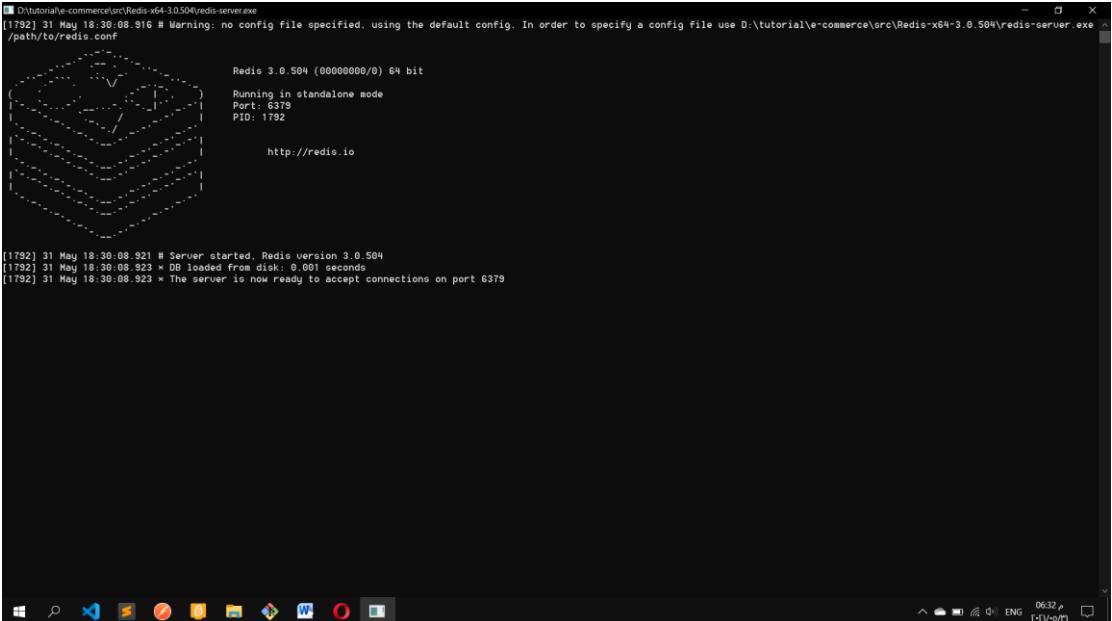
9. Local Server



```
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 number 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 10:41 AM.