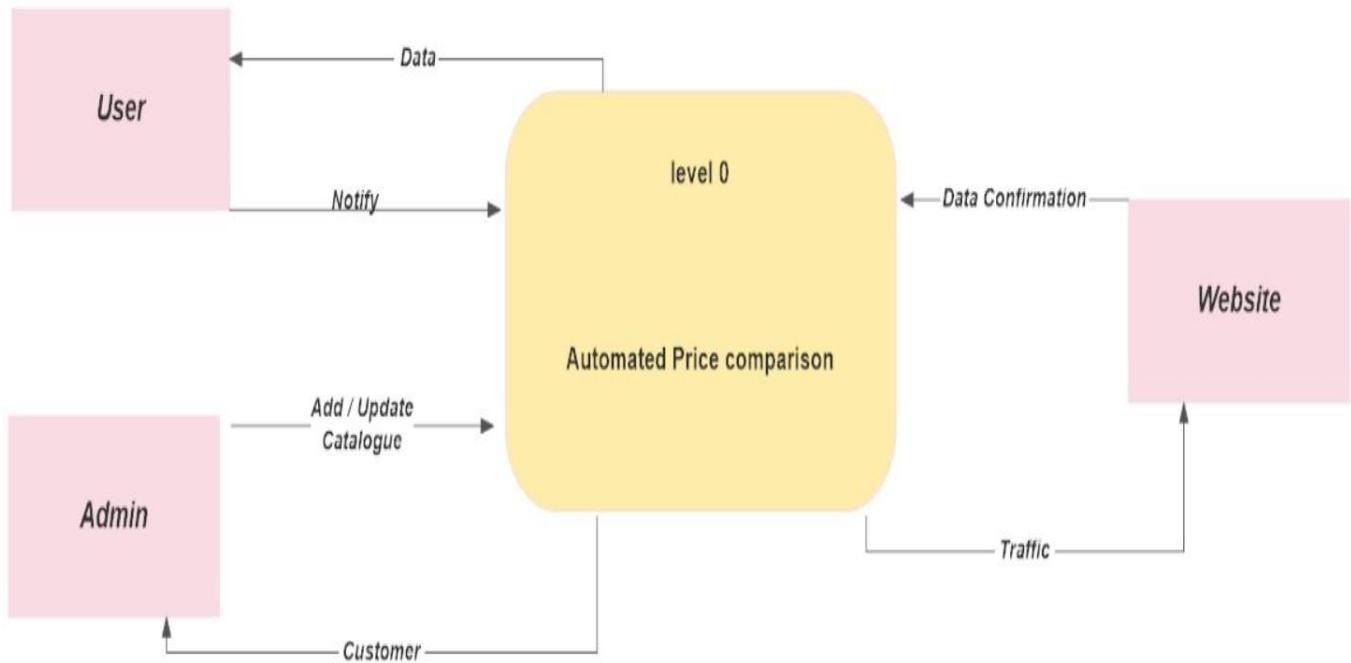


Chapter 3 : Diagrams and Screens

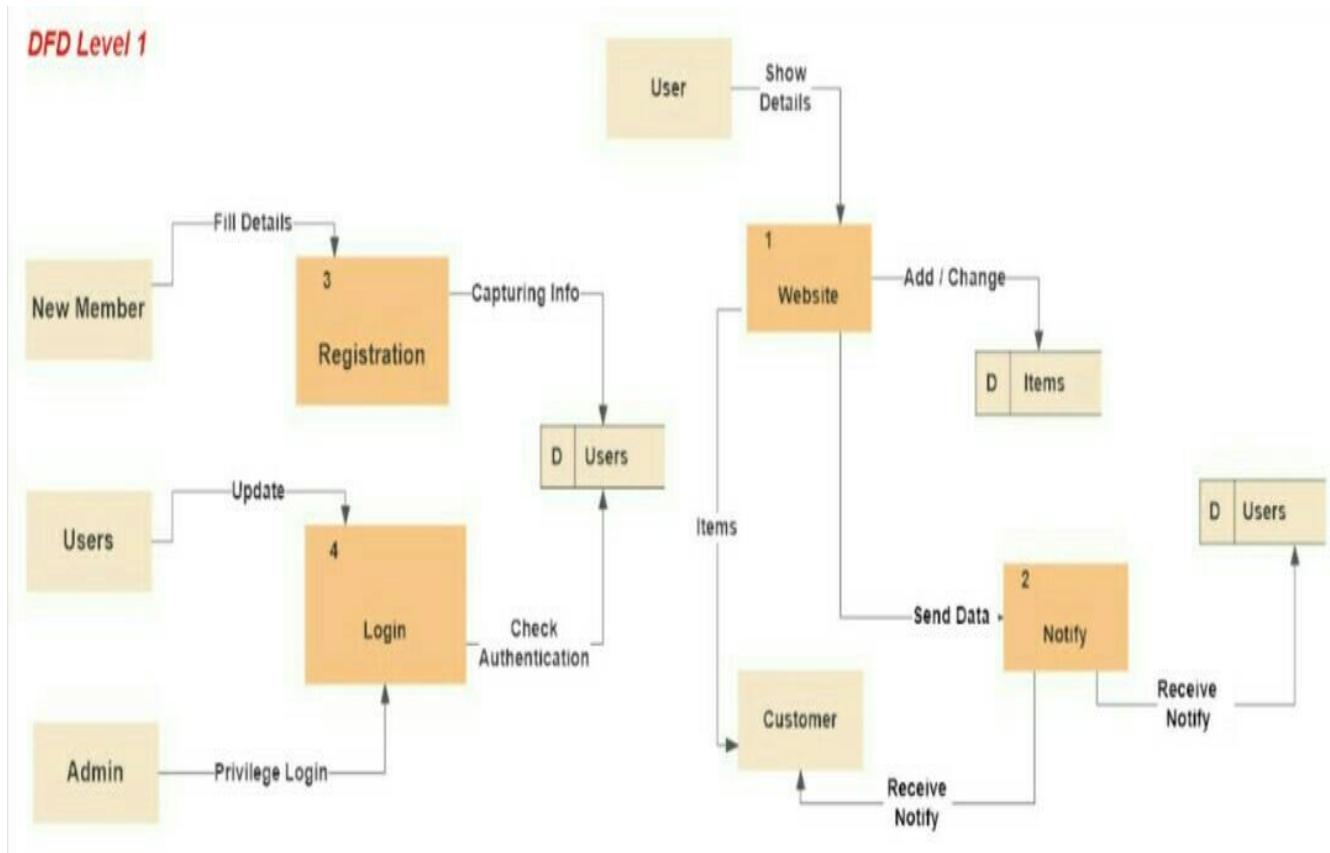
- Context Diagram
- DFD level 1
- DFD level 2
- Use case Model
- Sequence Diagram
- Activity Diagram
- Screens

Context Diagram :



The system is recognized as complete system "Automated Price Comparison ". Admin , users , website are the main actors for this system.

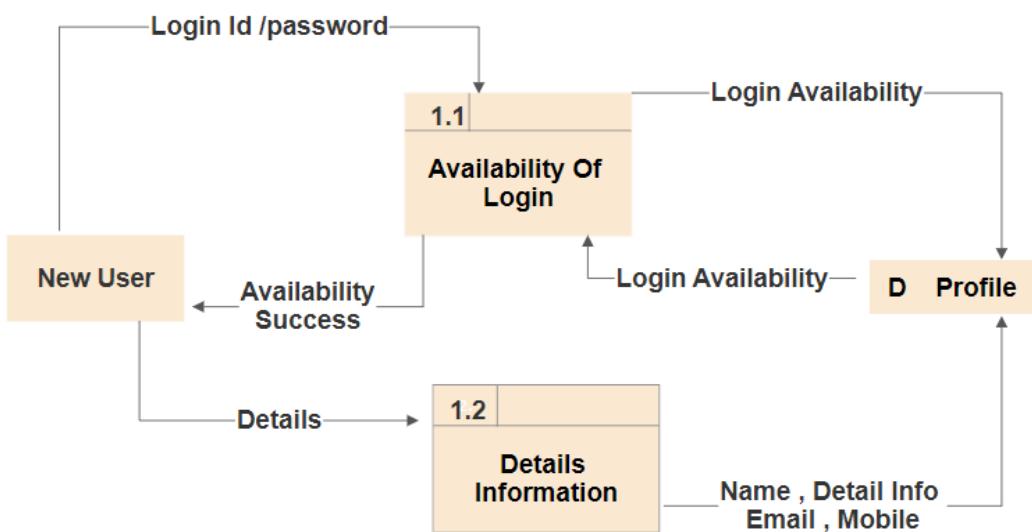
1. DFD Level 1



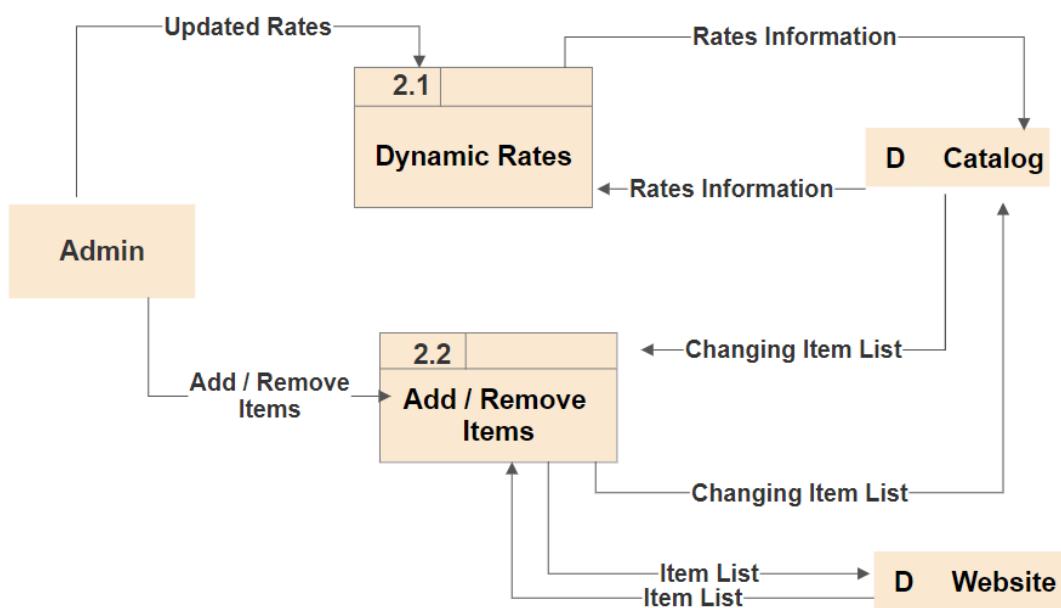
DFD level 2 divide into:

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

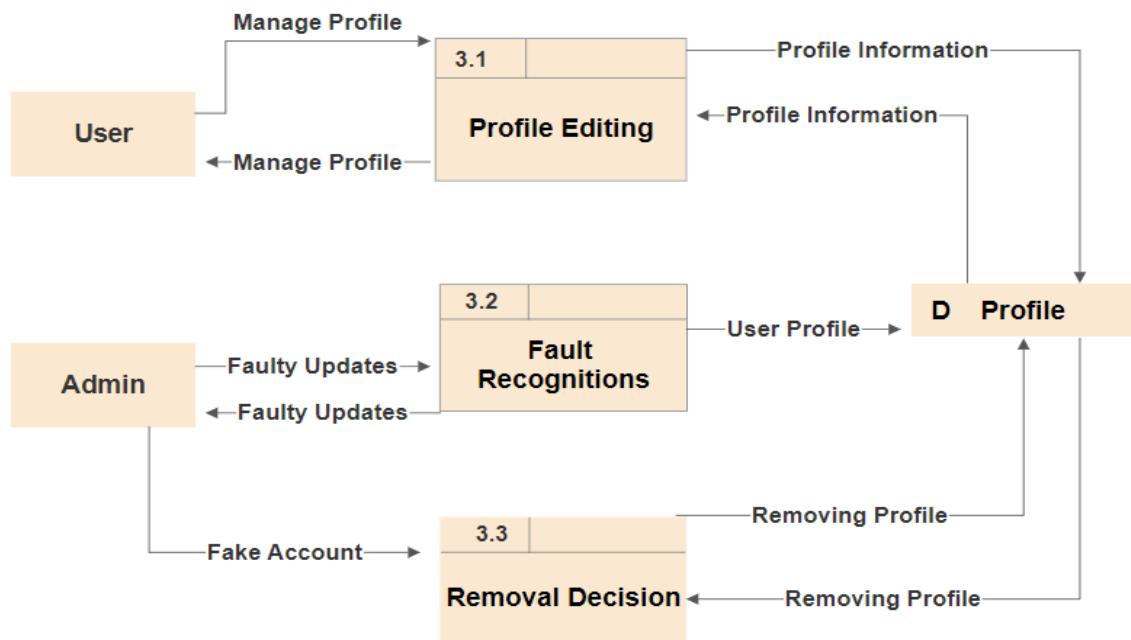
2. Registration



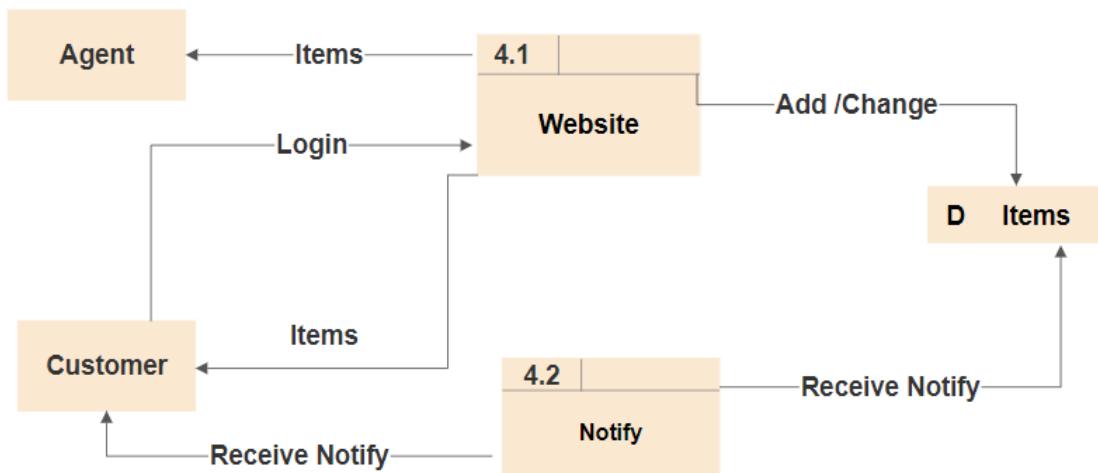
3. Maintenance



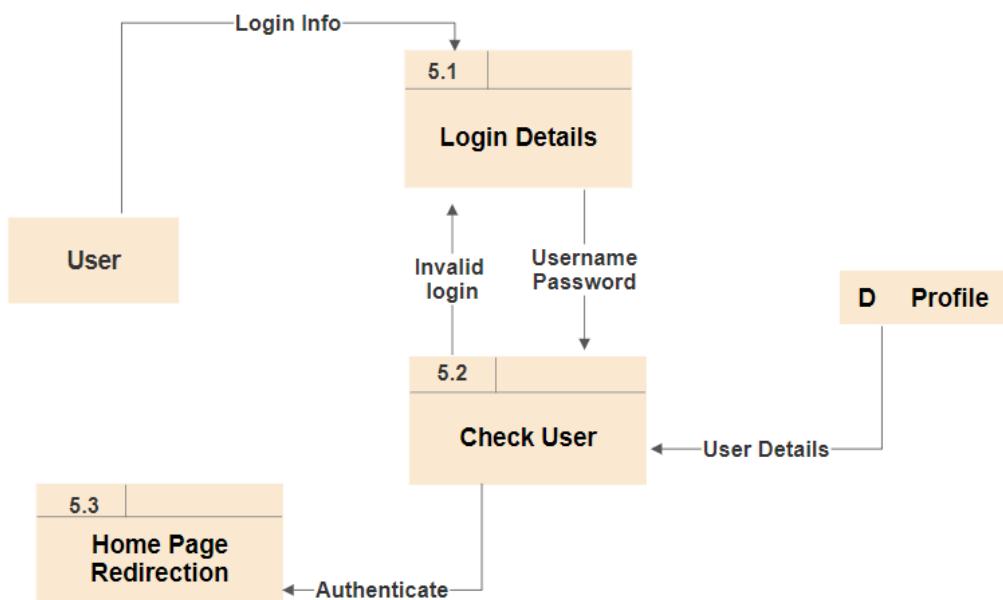
4. Profile Handling



5. Physical Transaction

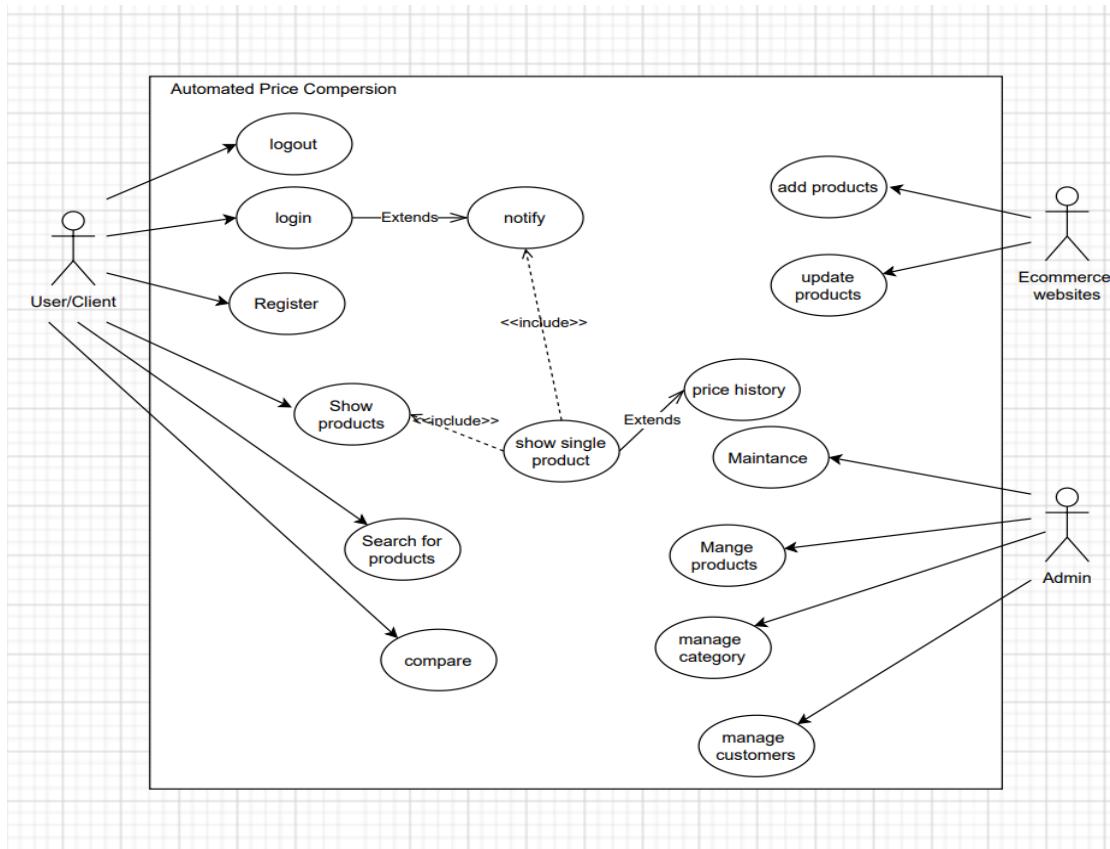


6. Login



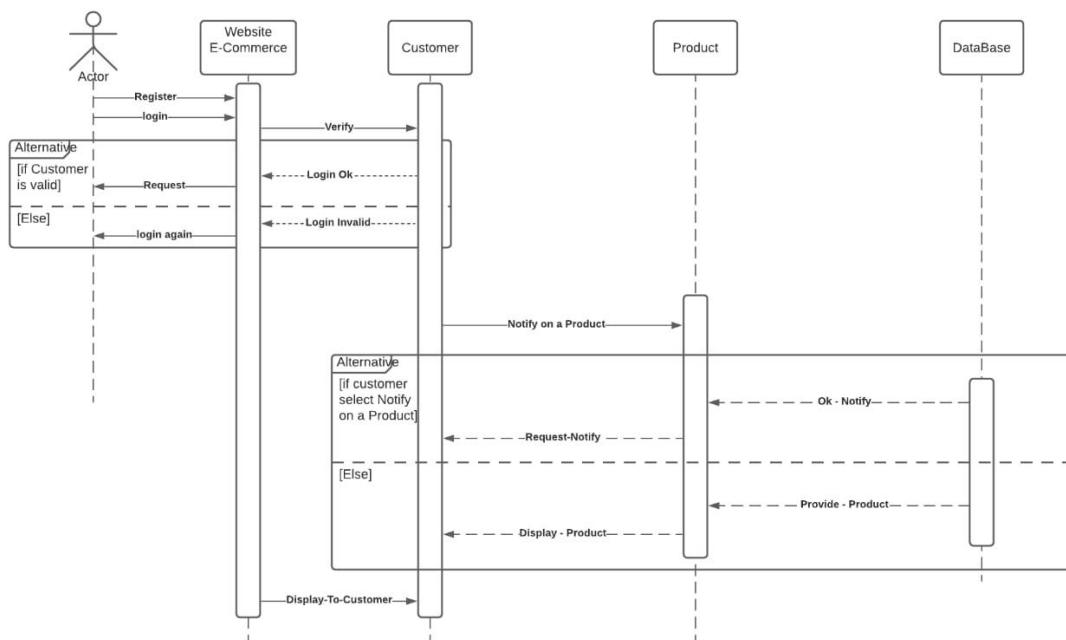
Use Case Model

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.



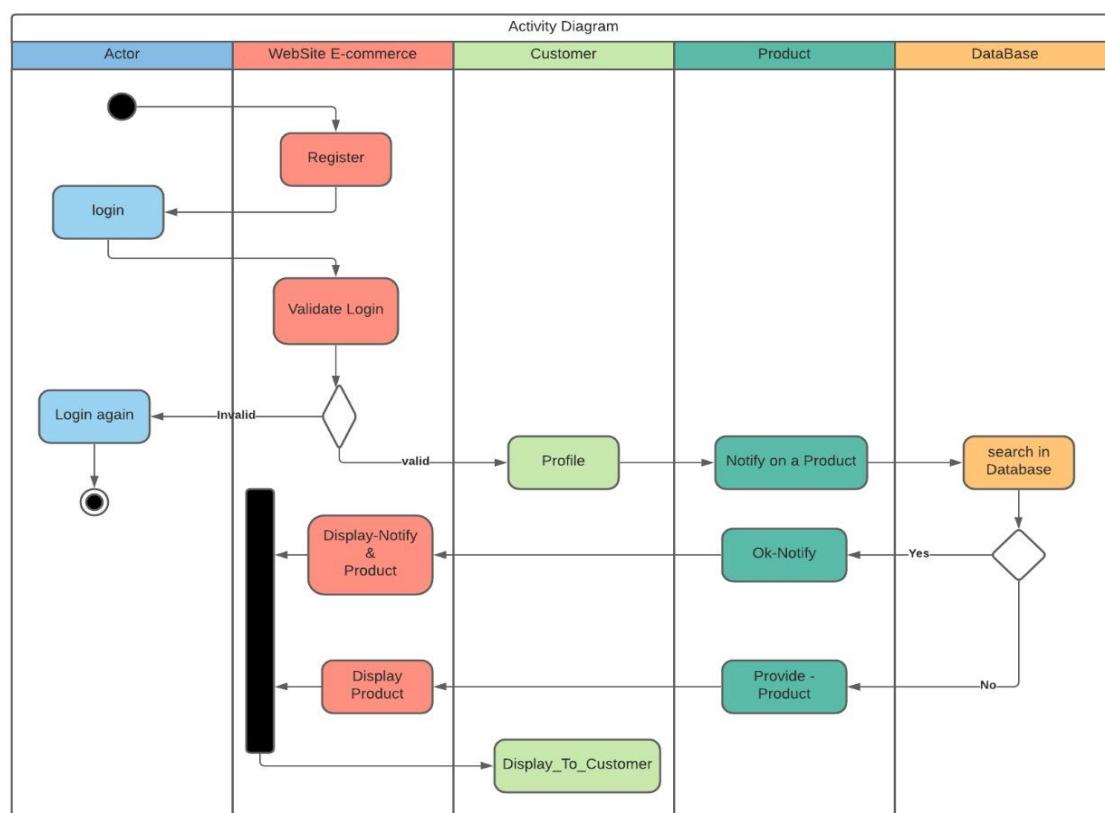
Sequence Diagram

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.



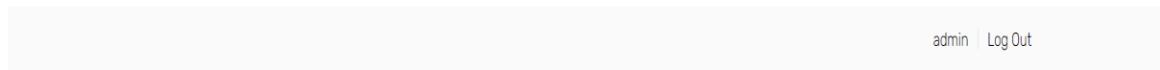
Activity Diagram

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 :

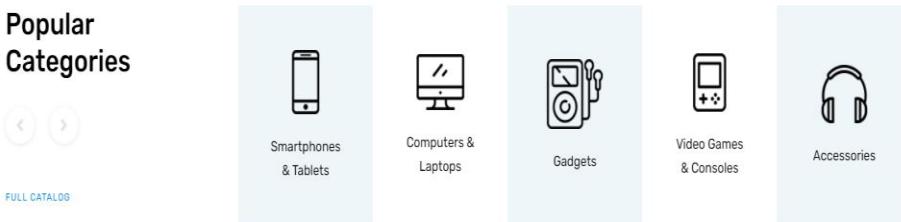
1. Search



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 a price of 12599.0EGP. At the bottom, there are buttons for "Hurry Up", page numbers "46 43 41", and a teal footer bar.

3. Popular Category



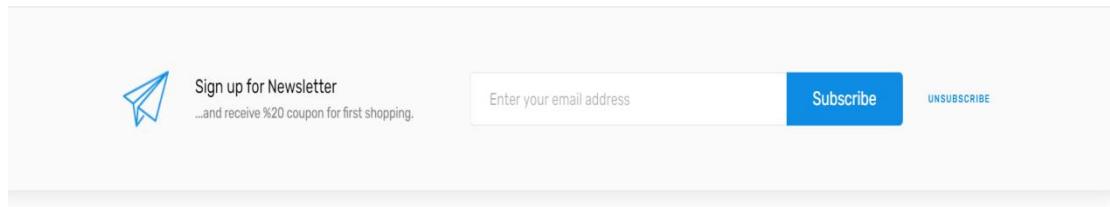
4. Hot Best Seller

Hot Best Sellers

New Product

Games Console Xbox One Wireless Controller 3.9 ★★★★☆ 700.0EGP	Games Console Xbox One S 500GB - White, 1 Wireless Controller with Fifa 17 and 1 Month EA Access 4.2 ★★★★☆ 11850.0EGP	Games Console Microsoft Xbox One Play and Charge Kit for Controller (xbox one) 4.3 ★★★★☆ 109.88EGP
Games Console Xbox One S 1TB Console Shadow of War Bundle 5.0 ★★★★★ 9000.0EGP	Games Console Xbox360E 5DX-00010-X/NSF-00002 With Kinect And One Wireless Controller - 250 GB , Black 2.5 ★★★★☆ 4350.0EGP	Games Console Xbox one wireless controller with play and charge kit 4.1 ★★★★☆ 706.0EGP

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%			

1.0

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, 13 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. Signin

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 fields. 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 ("Signup Now") interface. At the top right, there are links for "Home", "shop", and "Contact". The main title "Signup Now" is displayed prominently. The 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 is a note about password requirements: "Your password can't be too similar to your other personal information.", "Your password must contain at least 8 characters.", "Your password can't be a commonly used password.", and "Your password can't be entirely numeric.". A note below the "Password confirmation" field states: "Enter the same password as before, for verification." A large blue "signup" button is located 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 the following details:

- File Explorer (Left):** Shows the project structure under the 'accounts' folder:
 - __pycache_
 - migrations
 - templates
 - __init__.py
 - admin.py
 - apps.py
 - forms.py
 - models.py
 - tests.py
 - urls.py (selected)
 - views.py
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - soup
 - static
 - templates
 - utils
 - .gitignore
- Code Editor (Center):** The 'urls.py' file is open, showing the following code:

```
from django.urls import path
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'),
]
```
- Status Bar (Bottom):** Shows the current file as 'urls.py - src - Visual Studio Code', line count as 'Ln 1, Col 1', spaces as 'Spaces: 4', encoding as 'UTF-8', language as 'Python', and a timestamp of '03:01 PM'.

4. Forms

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

- File Explorer (Left):** Shows the project structure with files like accounts, migrations, templates, and views.py.
- Code Editor (Center):** Displays the file `forms.py` containing Python code for Django form classes. The code includes imports for django, models, User, and UserCreationForm. It defines three form classes: `UserCreateForm`, `UserForm`, and `Profileform`. The `UserCreateForm` and `UserForm` classes inherit from `ModelForm` and specify the `model` and `fields` for each.
- Status Bar (Bottom):** Shows the file path as "forms.py - src - Visual Studio Code", the line number as "Line 25, Col 52", and the status as "UTF-8 LF Python".

A red box highlights the first two lines of the code editor, which are causing an error:

```
1 from django import forms import "django" could not be resolved from source
2 from .models import Profile
```

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`), `migrations`, `templates`, and various Python files like `forms.py` and `models.py`. The `accounts` folder contains `__init__.py` and `admin.py`. The `src/accounts/apps.py` file is currently selected and has a red squiggle under the line `from django.apps import AppConfig`. A tooltip indicates the error: "Import "django.apps" could not be resolved from source". The status bar at the bottom shows the file path as `apps.py - src - Visual Studio Code` and the code editor shows the following code:

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

6. Views

The screenshot shows the Visual Studio Code interface with a Python file named `views.py` open. The code defines a `signup` view that handles POST requests to create a new user profile. It also defines a `profile` view that retrieves the user's profile based on their ID. The code uses Django's shortcuts, forms, and authentication modules. A code completion dropdown is visible at the top right, listing various imports and functions from the `django.shortcuts`, `django.forms`, and `django.contrib.auth` modules.

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

EXPLORER
OPEN EDITORS
views.py accounts 6
SRC
  □ dist
  □ vscode
  □ accounts
    □ pycache_
    □ migrations
    □ templates
      □ __init__.py
      □ admin.py
      □ apps.py
      □ forms.py
      □ models.py
      □ tests.py
      □ utils.py
    □ views.py 6
  □ db
  □ info
  □ jumia
  □ moon
  □ products
  □ project
  □ setting
  □ souq
  □ static
  □ templates
  □ utils
  □ .gitignore
  □ .gitattributes
  □ .gitignore
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOOL
Select Python Interpreter
Live Share
views.py 6
accounts > views.py ...
1  from django.shortcuts import get_object_or_404, redirect, render  import "django.shortcuts" could not be resolved from source
2  from .models import Profile
3  from .forms import UserForm, ProfileForm, UserCreateForm
4  from django.urls import reverse  import "django.urls" could not be resolved from source
5  from django.contrib.auth import authenticate, login  import "django.contrib.auth" could not be resolved from source
6  from django.contrib import messages  import "django.contrib" could not be resolved from source
7  from django.contrib.auth.models import User  import "django.contrib.auth.models" could not be resolved from source
8  from notifications.signals import notify  import "notifications.signals" could not be resolved from source
9  from products.models import category
10
11
12  # Create your views here.
13
14  def signup(request):
15      if request.method == 'POST':
16          signup_form = UserCreateForm(request.POST)
17          if signup_form.is_valid():
18              signup_form.save()
19              # return redirect(reverse('Login'))
20              username = signup_form.cleaned_data['username']
21              password = signup_form.cleaned_data['password']
22              user = authenticate(username=username, password=password)
23              login(request, user)
24              return redirect(reverse('accounts:profile'))
25
26      else:
27          signup_form = UserCreateForm()
28
29      return render(request, 'registration/signup.html', {'signup_form':signup_form})
30
31
32
33
34
35
36
37  def profile(request):
38      profile = Profile.objects.get(user = request.user)

L1, Col1  Spaces:4  UTF-8  LF  Python  Go Live  ENG  F1-F9/M  ↻
```

- Migrations [0001_initial.py]



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

- File Explorer:** On the left, it shows a tree view of the project structure. The `accounts` folder is expanded, showing subfolders `migrations`, `__pycache__`, and files like `__init__.py`, `models.py`, and `tests.py`.
- Code Editor:** The main area displays the file `0001_initial.py`. The code is a Django migration class named `Migration` that creates a `Profile` model with fields for ID, image, phone number, address, and a foreign key to the user model.
- Status Bar:** At the bottom, it shows "Ln 28, Col 1" and other standard status bar information.

```
0001_initial.py 3

accounts > migrations > 0001_initial.py > ...
1 # Generated by Django 3.1.5 on 2021-04-20 13:00
2
3 from django.conf import settings    Import "django.conf" could not be resolved from source
4 from django.db import migrations, models  Import "django.db" could not be resolved from source
5 import django.db.models.deletion  Import "django.db.models.deletion" could not be resolved from source
6
7
8 class Migration(migrations.Migration):
9
10     initial = True
11
12     dependencies = [
13         migrations.swappable_dependency(settings.AUTH_USER_MODEL),
14     ]
15
16     operations = [
17         migrations.CreateModel(
18             name='Profile',
19             fields=[
20                 ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
21                 ('image', models.ImageField(blank=True, null=True, upload_to='profile/')),
22                 ('phone_number', models.CharField(blank=True, max_length=16, null=True)),
23                 ('address', models.CharField(blank=True, max_length=50, null=True)),
24                 ('user', models.ForeignKey(on_delete=django.db.models.deletion.CASCADE, related_name='user_profile', to=settings.AUTH_USER_MODE
25             ],
26         ),
27     ],
28 ]
```

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 }}</button>
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="#">Hello Guest userone</a>
33          <a class="nav-link" href="#">Hello Guest userone</a>
34      <% endif %>
35  </div>
36
37  <a class="nav-link" href="#">Hello Guest userone</a>
38
39  <a class="nav-link" href="#">Hello Guest userone</a>

```

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

- File Explorer (Left):** Shows the project structure with files like `profile.html`, `accounts.py`, `migrations`, `profile.py`, and `views.py`.
- Code Editor (Center):** Displays the `profile.html` template file. The code includes Django template tags (`{% %}`) and HTML. It features a dropdown menu for notifications and a user navigation bar.
- Status Bar (Bottom):** Shows "Ln 4, Col 1" and other standard status bar information.

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

EXPLORER
OPEN EDITORS
SRC
accounts
  - profile.html
  - accounts.py
  - migrations
    - migrations.py
    - __init__.py
    - 0001_initial.py
  - templates
    - profile
      - profile_edit.html
      - profile.html
  - registration
  - __init__.py
  - admin.py
  - apps.py
  - forms.py
  - models.py
  - tests.py
  - urls.py
  - views.py
db
info
joomla
noon
products
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter
Live Share
Preview Available
Ln 4, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier
03:18, ENG F1-F4/Y/N
```

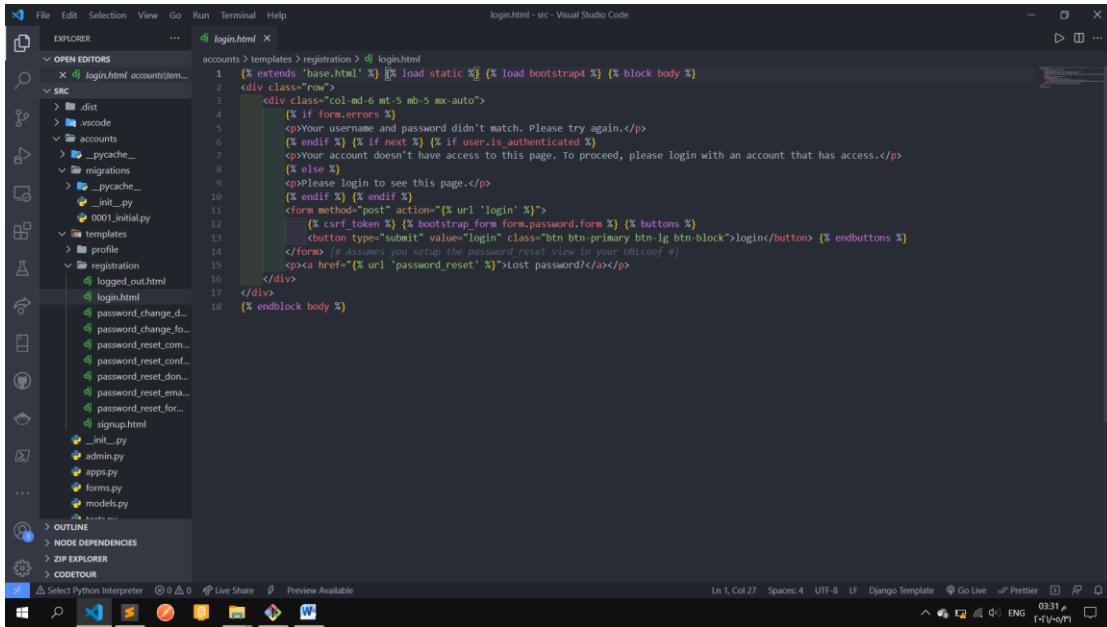
```
profile.html x
accounts > templates > profile > profile.html
10 11
12 13 <h5><a href="{% url 'accounts:profile_edit' %}">Edit Profile</a></h5>
14 15 </div>
16 17 <div style="margin-left: 30px; margin-top: 30px; display: flex; flex-flow: row-justify-content: start;">
18 19 <div style="width: 200px;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

- Registration/Logged_out.html

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** logged_out.html - src - Visual Studio Code
- Explorer View (Left):**
 - OPEN EDITORS: logged_out.html
 - SRC:
 - accounts
 - migrations
 - profile
 - registration
 - TEMPLATES:
 - logged_out.html
 - login.html
 - password_change_d...
 - password_change_fo...
 - password_reset.com...
 - password_reset.conf...
 - password_reset.don...
 - password_reset_email...
 - password_reset_for...
 - signup.html
 - models.py
 - admin.py
 - apps.py
 - forms.py
 - views.py
- Code Editor (Right):** The code for `logged_out.html` is displayed, which includes a link to `login.html` for logging back in.
- Bottom Status Bar:** Ln 4, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live 0330 ENG 11:11 AM

- o Registration/Login.html



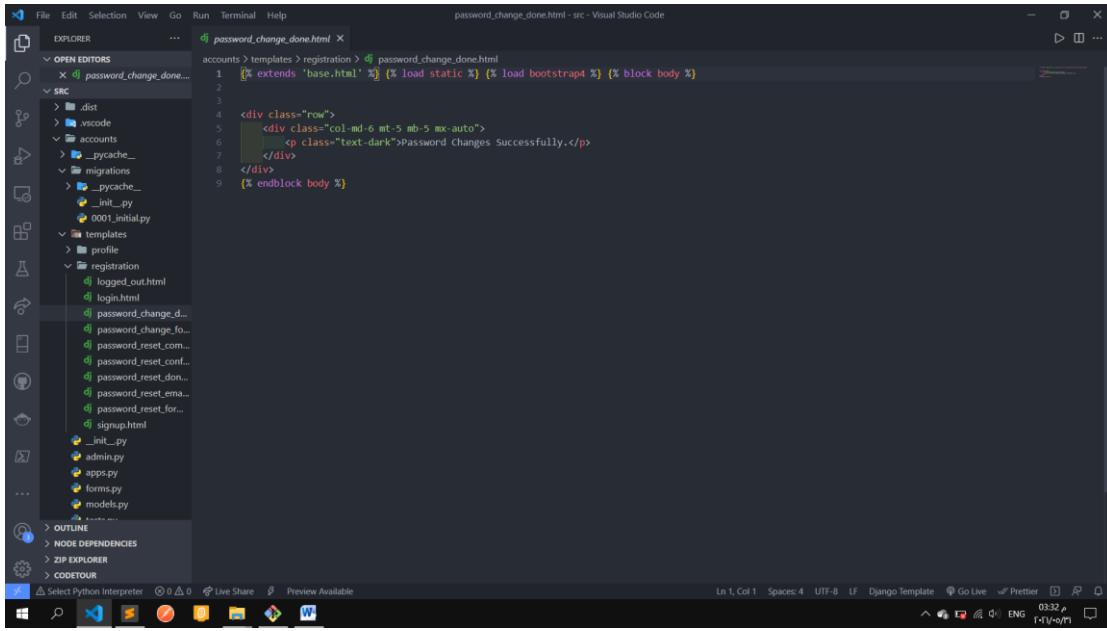
The screenshot shows the Visual Studio Code interface with the file `login.html` open in the editor. The code is a Django template for a login page. It extends the `base.html` template and includes static files and Bootstrap. It handles form errors and provides links for password reset and login.

```

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



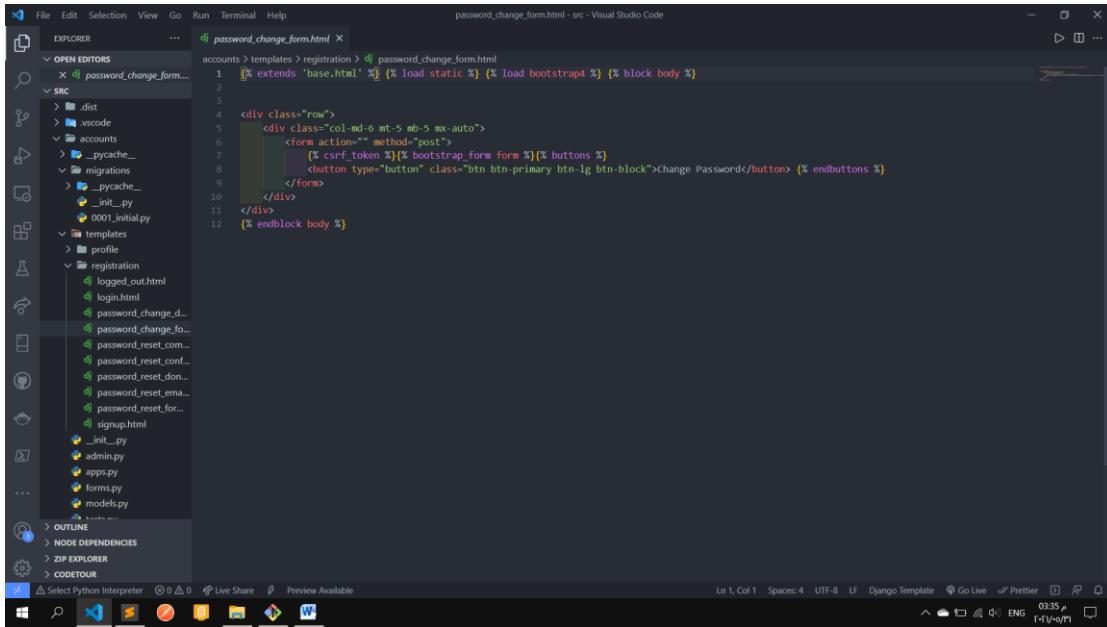
The screenshot shows the Visual Studio Code interface with the file `password_change_done.html` open in the editor. The code is a Django template for a password change confirmation page. It extends the `base.html` template and displays a success message.

```

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 > profile
registration > logged_out.html
> login.html
> password_change_d...
> password_change_f...
> password_change_com...
> password_reset_conf...
> password_reset_don...
> password_reset_email...
> password_reset_for...
> signup.html
> __init__.py
> admin.py
> apps.py
> forms.py
> models.py
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter 0 Live Share Preview Available Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:35 p

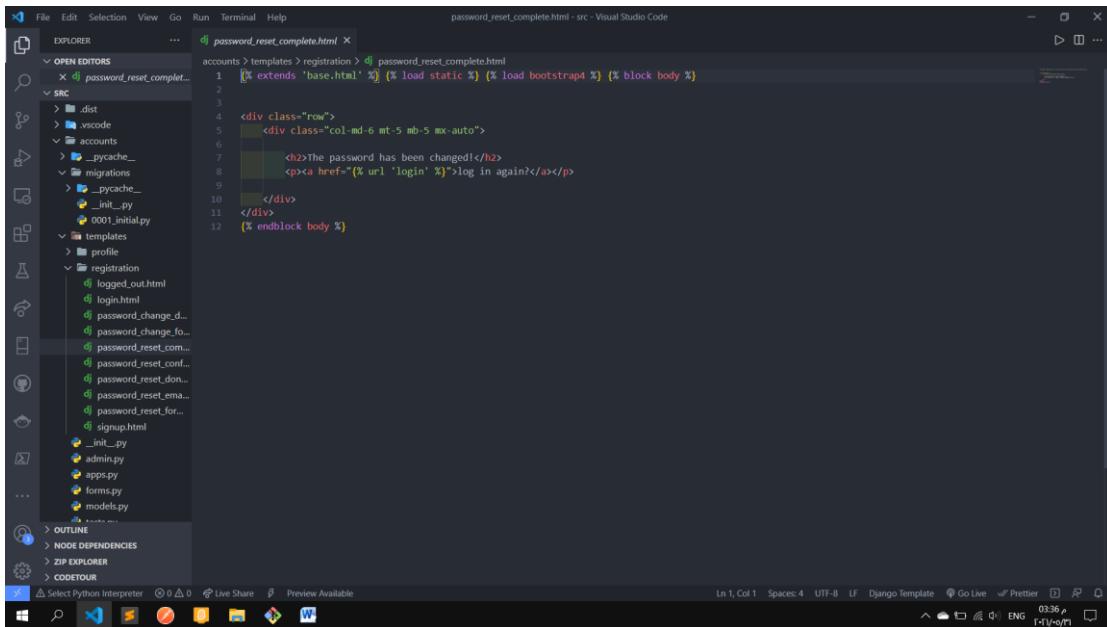
```

```

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 %]<% bootstrap_form Form %>[% buttons %]
8        <button type="button" class="btn btn-primary btn-lg btn-block">Change Password</button> [% endbuttons %]
9      </form>
10     </div>
11   </div>
12   [% 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 > profile
registration > logged_out.html
> login.html
> password_change_d...
> password_change_f...
> password_change_com...
> password_reset_conf...
> password_reset_don...
> password_reset_email...
> password_reset_for...
> signup.html
> __init__.py
> admin.py
> apps.py
> forms.py
> models.py
OUTLINE
NODE DEPENDENCIES
ZIP EXPLORER
CODETOUR
Select Python Interpreter 0 Live Share Preview Available Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 03:36 p

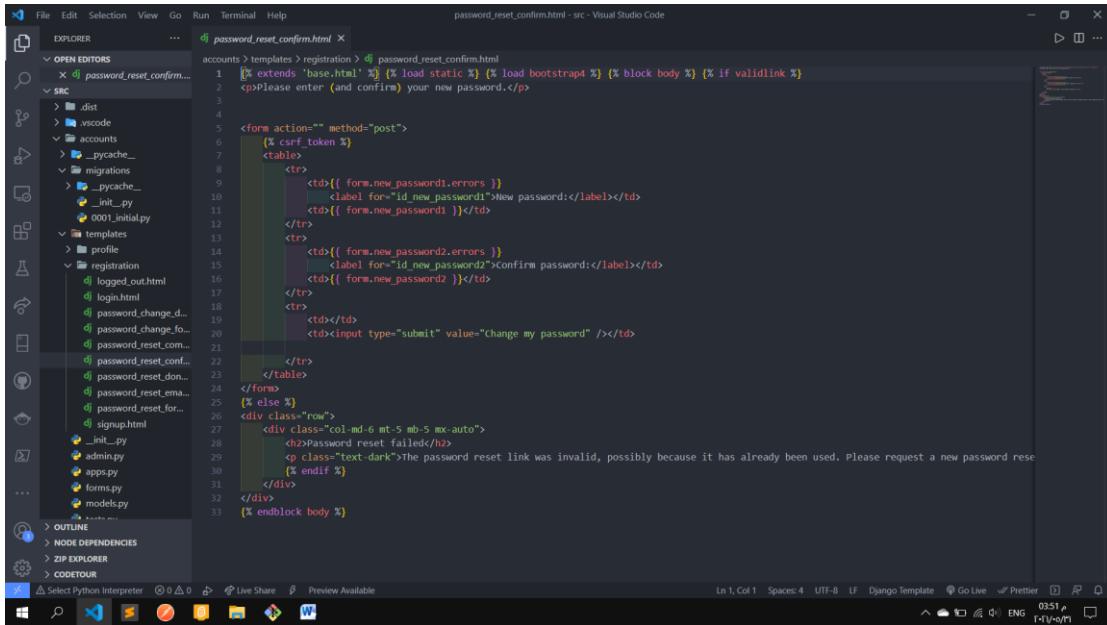
```

```

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      <h2>The password has been changed!</h2>
7      <p><a href="[% url 'login' %]">log in again!</a></p>
8    </div>
9  </div>
10  [% endblock body %]

```

- Registration/Password_reset_confirm.html



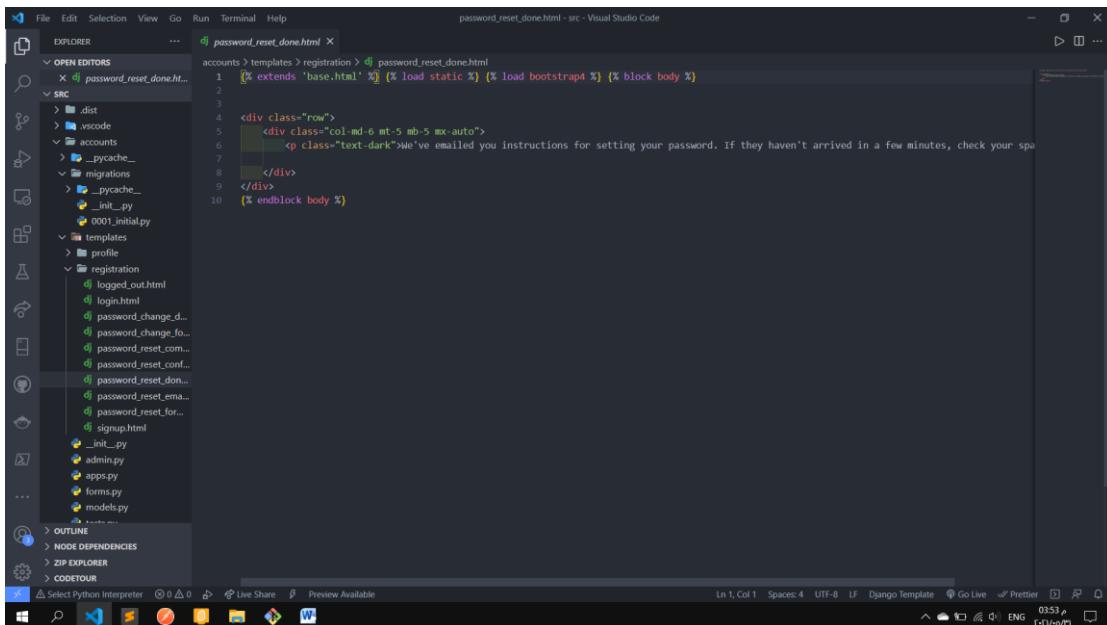
```

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

```

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

```

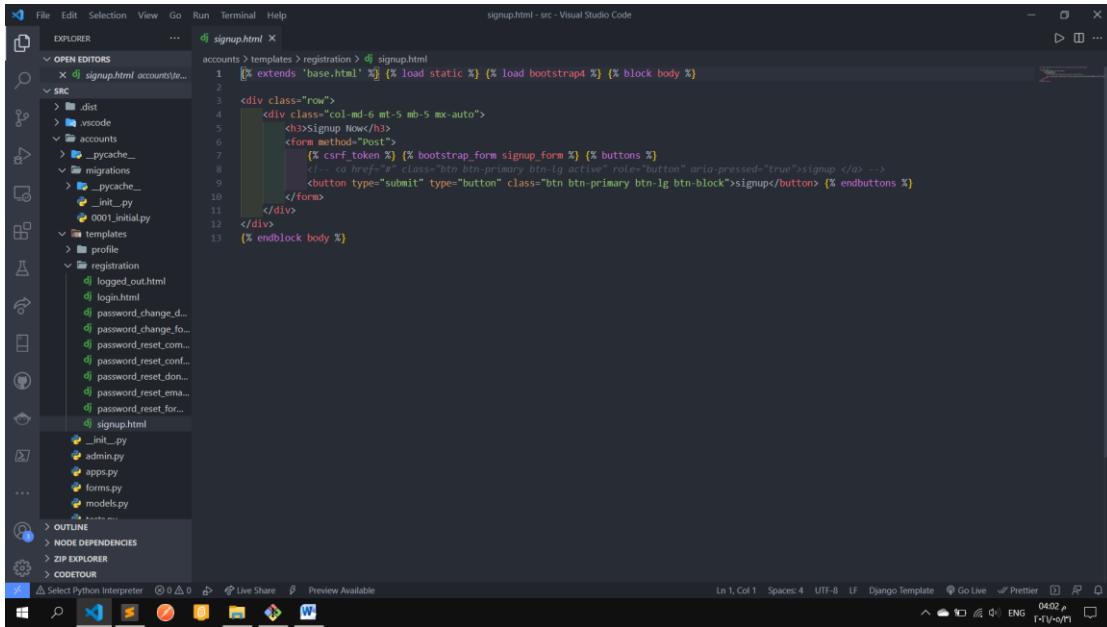
- o Registration/Password_reset_form.html

```

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

```

- Registration/Signup.html



```

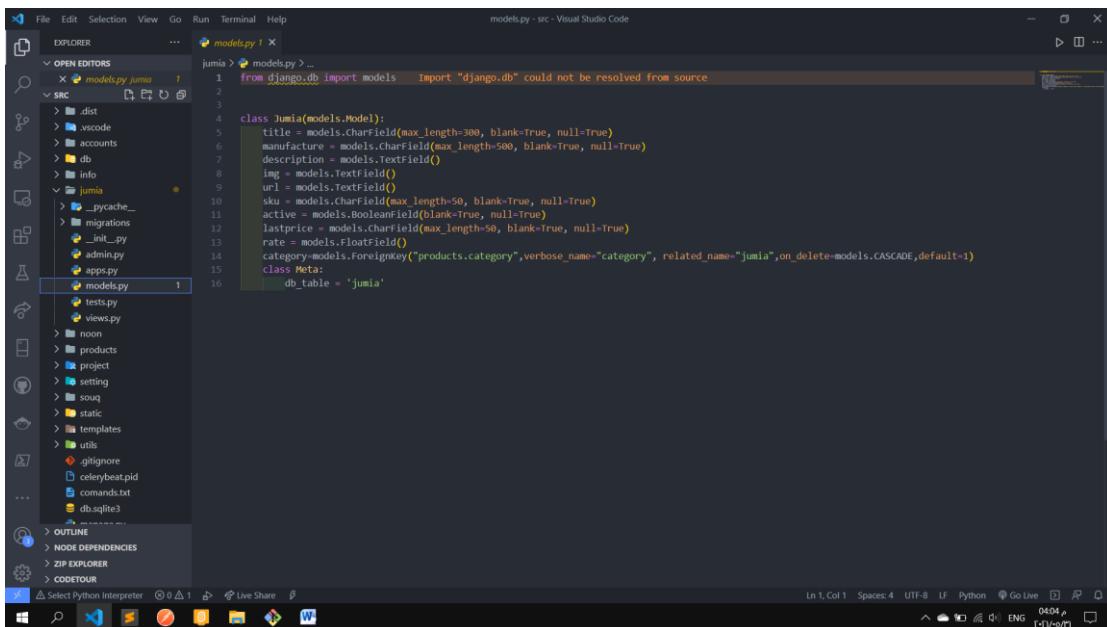
File Edit Selection View Go Run Terminal Help
EXPLORER ... signup.html X
OPEN EDITORS accounts > templates > registration > signup.html
1 [% extends 'base.html' %] [% load static %] [% load bootstrap4 %] [% block body %]
2
3 <div class="row">
4   <div class="col-md-6 mt-5 mb-5 mx-auto">
5     <h3>Signup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

```

The screenshot shows the Visual Studio Code interface with the 'signup.html' file open in the editor. The code is a Django template for a sign-up form. It includes imports for 'base.html', 'static', and 'bootstrap4'. The template uses Bootstrap 4 classes like 'col-md-6', 'mt-5', 'mb-5', and 'mx-auto'. It features a heading 'Signup Now', a form with a text input for 'username', and validation feedback. The file is located in the 'registration' directory of the 'accounts' app.

Jumia:

1. Models



```

File Edit Selection View Go Run Terminal Help
EXPLORER ... models.py X
OPEN EDITORS jumia > ...
models.py > ...
1 from django.db import models
2
3
4 class Jumia(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  category=models.ForeignKey("products.category",verbose_name="category", related_name="jumia",on_delete=models.CASCADE,default=1)
14
15 class Meta:
16   db_table = 'jumia'

```

The screenshot shows the Visual Studio Code interface with the 'models.py' file open in the editor. The code defines a 'Jumia' model using the 'models.Model' base class. It contains fields for 'title', 'manufacturer', 'description', 'img', 'url', 'sku', 'active', 'lastprice', and a many-to-one relationship named 'category' with the 'products.category' model. The 'category' field is defined with 'verbose_name="category"', 'related_name="jumia"', and 'on_delete=models.CASCADE'. The file is located in the 'jumia' app.

2. Admin

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

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

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

3. APPS

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

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

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

4. Tests

```

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

```

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

```

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

```

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

5. Views

```

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

```

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

```

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

```

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

6. Migrations

- o 0001_initial.py

```

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

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

class Migration(migrations.Migration):
    initial = True

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

    operations = [
        migrations.CreateModel(
            name='Jumia',
            fields=[
                ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
                ('title', models.CharField(blank=True, max_length=300, null=True)),
                ('manufacturer', models.CharField(blank=True, max_length=50, null=True)),
                ('description', models.TextField()),
                ('img', models.TextField()),
                ('url', models.TextField()),
                ('sku', models.CharField(blank=True, max_length=50, null=True)),
                ('active', models.BooleanField(blank=True, null=True)),
                ('lastprice', models.CharField(blank=True, max_length=50, null=True)),
                ('jumiaid', 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),
        ),
    ]

```

- 0003_remove_jumia_jumiaid.py

```
jumia > migrations > 0003_remove_jumia_jumiaid.py > ...
  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_1349'),
 10     ]
 11
 12     operations = [
 13         migrations.RemoveField(
 14             model_name='jumia',
 15             name='jumiaid',
 16         ),
 17     ]
 18
```

Noon:

1. Models

2. Admin

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

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

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

3. Apps

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

- File Explorer:** 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
EXPLORER tests.py 1 ...
OPEN EDITORS tests.py noon > tests.py
SRC > __pycache__ > __init__.py > admin.py > apps.py > models.py > tests.py 1
views.py
products
project
setting
souq
static
templates
utils
.gitignore
celerybeat.pid
commands.txt
db.sqlite3
...
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
Windows Taskbar icons
```

5. Views

```
File Edit Selection View Go Run Terminal Help
EXPLORER views.py 1 ...
OPEN EDITORS views.py noon > views.py
SRC > __pycache__ > __init__.py > admin.py > apps.py > models.py > tests.py > views.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 0 1 Live Share
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Go Live
Windows Taskbar icons
```

6. Migrations

- o 0001_initial.py

```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS 0001_initial.py 2
SRC
  moon > 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" 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='Moon',
              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='moon', to="products.category")),
              ],
              options={
                  'db_table': 'moon',
              },
          ),
      ],
  ]

```

Products:

1. Models

```

File Edit Selection View Go Run Terminal Help
models.py - src - Visual Studio Code
OPEN EDITORS models.py 1
SRC
  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)
      moon=models.ForeignKey("moon.moon",verbose_name="moon", related_name="moon",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
REXPLORER ... 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 0434.p

```

```

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
REXPLORER ... 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 0435.p

```

```

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

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

- File Explorer (Left):** The sidebar displays the project structure under "OPEN EDITORS".
 - src:** Contains .dist, vscode, accounts, db, info, jumia, noon, products, and templates.
 - products:** Contains __pycache__, migrations, templates, templatetags, admin.py, filter.py, models.py, tasks.py, test.py (highlighted with a blue selection bar), urls.py, and views.py.
 - project:** Contains setting, soug, static, and templates.
- Editor Area (Top):** The title bar says "tests.py - src - Visual Studio Code". The code editor shows the following Python code:

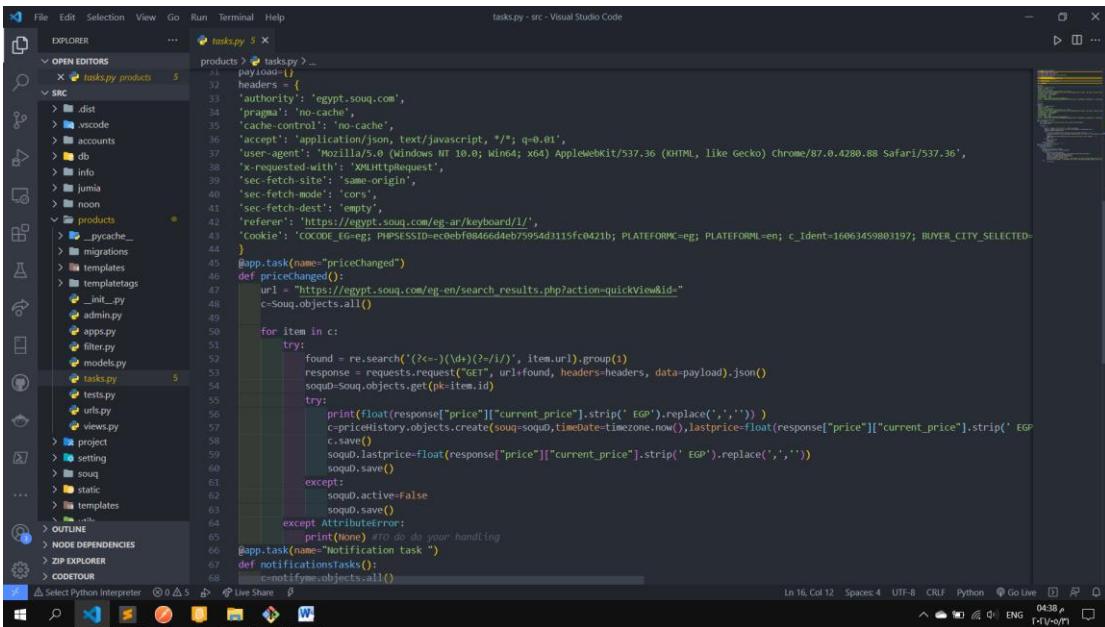
```
1  from django.test import TestCase
2
3  # Create your tests here.
4
```
- Bottom Status Bar:** Shows "Ln 1, Col 1", "Spaces: 4", "UTF-8", "LF", "Python", "Go Live", and icons for "Select Python Interpreter", "Live Share", and "File Status".
- Bottom Icons:** Standard Windows-style icons for file operations like Open, Save, Print, and Help.

7. Tasks

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

- File Explorer:** Shows the project structure under "OPEN EDITORS". The file "tasks.py" is open and has a red squiggle under "import requests".
- Code Editor:** Displays the content of "tasks.py". It includes imports for datetime, timezone, celery, accounts, project.celery, products, souq, notifications, django.core.mail, and requests. There are several errors highlighted with red squiggles, notably for celery, notifications, and requests.
- Status Bar:** Shows "tasks.py - src - Visual Studio Code" at the top, and "Ln 16 Col 12 Spaces: 4 UTT-B CRLF Python Go Live" at the bottom.

```
products > tasks.py > ...
1  from datetime import timezone
2  from celery import Celery  Import "celery" could not be resolved
3  from accounts.models import Profile
4  from project.celery import app
5  from products.models import notifyme, priceHistory
6  from souq.models import Souq
7  from notifications.signals import notify  Import "notifications.signals" could not be resolved
8  from django.contrib.auth.models import User  Import "django.contrib.auth.models" could not be resolved from source
9  from django.core.mail import send_mail  Import "django.core.mail" could not be resolved from source
10
11
12
13  import requests  Import "requests" could not be resolved from source
14
15
16  payload={}
17  headers = []
18  'authority': 'egypt.souq.com',
19  'pragma': 'no-cache',
20  'cache-control': 'no-cache',
21  'accept': 'application/json, text/javascript, */*; q=0.01',
22  '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',
23  'x-requested-with': 'XMLHttpRequest',
24  'sec-fetch-site': 'same-origin',
25  'sec-fetch-mode': 'cors',
26  'sec-fetch-dest': 'empty',
27  'referer': 'https://egypt.souq.com/eg-ar/keyboard/l1',
28  'cookie': 'CODE_FG=eg; PHPSESSID=ec0ebf084664eb7595d4311fc0421b; PLATEFORM=eg; PLATEFORM=en; c_Ident=16063459803197; BUYER_CITY_SELECTED=
29
30
31  import re
32
33  payload={}
34  headers = {
35  'authority': 'egypt.souq.com',
36  'pragma': 'no-cache',
37  'cache-control': 'no-cache',
38  'accept': 'application/json, text/javascript, */*; q=0.01',
39  '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',
40  'x-requested-with': 'XMLHttpRequest'}
```



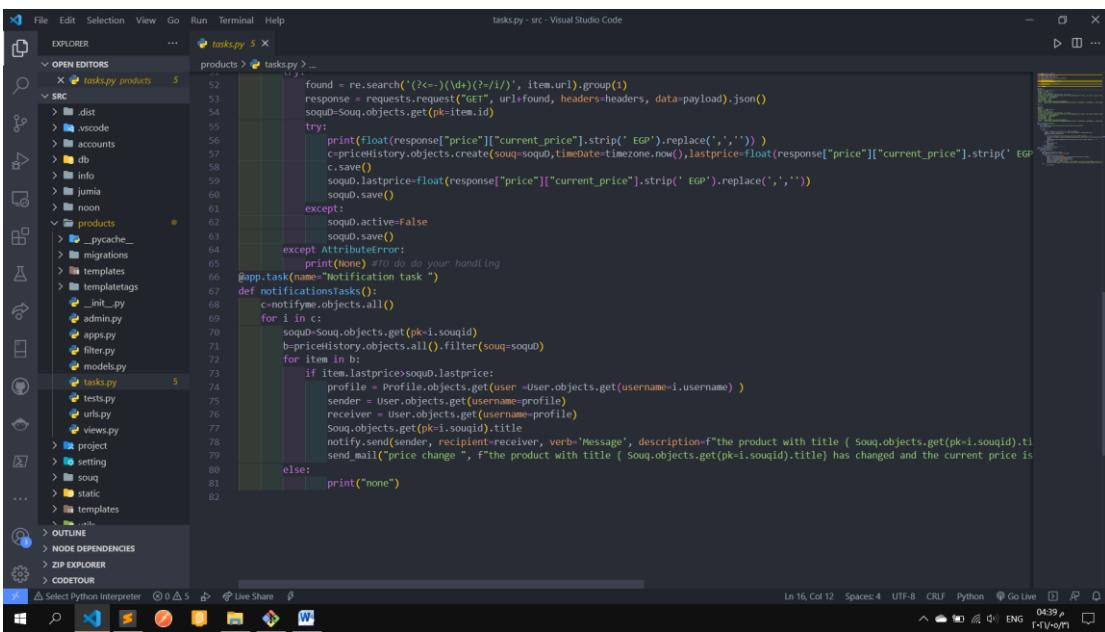
```

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="
    c Souq.objects.all()

    for item in c:
        try:
            found = re.search('(<=)(\d+)(?=/i)', item.url).group(1)
            response = requests.request("GET", url+found, headers=headers, data=payload).json()
            souqu = Souq.objects.get(pk=item.id)
            try:
                print(float(response["price"]["current_price"].strip(" EGP").replace(",","")))
                c.pricehistory.objects.create(souq=souqu, timedata=timezone.now(), lastprice=float(response["price"]["current_price"].strip(" EGP").replace(",","")))
                souqu.lastprice=float(response["price"]["current_price"].strip(" EGP").replace(",",""))
                souqu.save()
            except:
                souqu.active=False
                souqu.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+)(?=/i)', item.url).group(1)
response = requests.request("GET", url+found, headers=headers, data=payload).json()
souqu = Souq.objects.get(pk=item.id)
try:
    print(float(response["price"]["current_price"].strip(" EGP").replace(",","")))
    c.pricehistory.objects.create(souq=souqu, timedata=timezone.now(), lastprice=float(response["price"]["current_price"].strip(" EGP").replace(",","")))
    souqu.lastprice=float(response["price"]["current_price"].strip(" EGP").replace(",",""))
    souqu.save()
except:
    souqu.active=False
    souqu.save()
except AttributeError:
    print("none") #do do your handling
@app.task(name="Notification task ")
def notificationsTasks():
    c=notifyme.objects.all()
    for i in c:
        souqu=Souq.objects.get(pk=i.souqid)
        b=pricehistory.objects.all().filter(souq=souqu)
        for item in b:
            if item.lastprice>souqu.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 a Visual Studio Code window with the following details:

- File Explorer:** Shows the project structure with files like `views.py`, `models.py`, `filters.py`, and `tests.py`.
- Code Editor:** The `views.py` file is open, displaying code related to Django models and views. Several lines of code are underlined with red squiggly lines, indicating syntax errors:
 - Line 1: `from django.contrib.auth.models import User`
 - Line 2: `from django.http import request`
 - Line 3: `from accounts.models import Profile`
 - Line 4: `"Profile" is not accessed`
 - Line 5: `from django.shortcuts import render`
 - Line 6: `"djang.shortcuts" could not be resolved from source`
 - Line 7: `from django.contrib.postgres.search import TrigramDistance`
 - Line 8: `"django.contrib.postgres.search" could not be resolved from source`
 - Line 9: `from django.db.models import Q`
 - Line 10: `"django.db.models" could not be resolved from source`
 - Line 11: `from products.models import category, notifyme, priceHistory`
 - Line 12: `from souq.models import Souq`
 - Line 13: `from jumia.models import Jumia`
 - Line 14: `from noon.models import Noon`
 - Line 15: `from .filter import propertyFilter`
 - Line 16: `from django_filters.views import FilterView`
 - Line 17: `"django_filters.views" could not be resolved`
 - Line 18: `from notifications.signals import notify`
 - Line 19: `"notifications.signals" could not be resolved`
 - Line 20: `from django.core.paginator import Paginator`
 - Line 21: `"django.core.paginator" could not be resolved from source`
 - Line 22: `from django.http import JsonResponse`
 - Line 23: `"django.http" could not be resolved from source`
 - Line 24: `from django.views.generic import Templateview`
 - Line 25: `"django.views.generic" could not be resolved from source`
 - Line 26: `from chartjs.views.lines import Baselinechartview`
 - Line 27: `"chartjs.views.lines" could not be resolved`
- Status Bar:** Shows the current file is `views.py - 9+`, the line number is 1, column 1, and the status bar includes "Spaces: 4", "UTF-8", "LF", "Python", "Go Live", and "0440 ↗".

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

- File Explorer (Left):** Shows the project structure with files like `views.py`, `products`, `migrations`, `templates`, and `models.py`.
- Code Editor (Center):** Displays Python code for a chart view. The code imports `LineChartJSONView` from `products` and defines a `population_chart` function. It retrieves data from the database, filters it by time, and returns a JSON response with labels and datasets.
- Status Bar (Bottom):** Shows the file path as `views.py - src - Visual Studio Code`, and the current position as `Ln 41, Col 5`.

```

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
146     class itemDetails(detailView):
147         model = Souq
148         def get_context_data(self, **kwargs):
149             data = super().get_context_data(**kwargs)
150             curTitle= self.object.title
151             curManufacture=self.object.manufacture
152
153             souq=Souq.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
154                 '-distance')
155             noon=Noon.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
156                 '-distance')
157             jumia=Jumia.objects.annotate(distance=TrigramDistance('title',curTitle)).filter(distance_lte=0.7,manufacture=curManufacture).order_by(
158                 '-distance')
159             data['noon'] = noon
160             data['jumia'] = jumia
161             data['souqplus'] = souq
162             data['Categories'] = category.objects.all().order_by('sweetName')
163             return data
164
165     def interest(request):
166         if (request.method == "POST") and ("subscribe" in request.POST):
167             # profile = Profile.objects.get(user = request.user)
168             # sender = User.objects.get(username=profile)
169             # receiver = User.objects.get(username=profile)
170             # notifyfy = Notifyfy(sender, recipient=receiver, verb='message', description=f"interest in {request.POST.get('title')}")
171             # b = notifyfy.objects.create(username=request.POST.get('username'),souqid=request.POST.get('id'),lastPrice=request.POST.get('lastprice'))
172             # b.save()
173
174         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             # notifyfy = Notifyfy(sender, recipient=receiver, verb='message', description=f"interest in {request.POST.get('title')}")
170             # b = notifyfy.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 in the editor. The code is a Django template for a product listing page. It includes form groups for selecting categories and brands, 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="brand">Brands</label>
                        <select id="brand" 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">
```

```

products > templates > product > jumia_list.html
1   <!-- Tab Content -->
2   <div class="container">
3     <div class="row mb-8">
4       <div class="col-12 col-md-9">
5         <div class="tab-pane fade pt-2 show active" id="pills-three-example1" role="tabpanel" aria-labelledby="pills-three-example1-tab">
6           {% for product in page_obj %}
7             <ul class="list-unstyled products-group product-list-view">
8               <li class="product-item remove-divider">
9                 <div class="product-item_outer w-100">
10                <div class="product-item_inner remove-product-hover py-4 row">
11                  <div class="product-item_header col-6 col-md-4">
12                    <a href="/product/{{product.id}}>" class="d-block text-center">
15                    <div class="pr-lg-12">
16                      <div class="mb-2 "><a href="/product/{{product.id}}>" class="font-size-12 text-gray-5">{{product.title}}</a>
17                      <div class="mb-2 product-item_title"><a href="/product/{{product.id}}>" class="text-blue font-weight-bolder">{{product.title}}</a>
18                      <div class="product-price mb-2 d-md-block">
19                        <div class="text-gray-100 mb-12">{{product.lastprice}}</div>
20                      </div>
21                      <div class="mb-3 d-none d-md-block">
22                        <div class="rating-wrap">
23                          <div class="center">
24                            <span id="rating_val">{{product.rate|Floatformat:1}}</span>
25                            <div class="rating" style="display:inline;">
26                              <div class="stars-outer">
27                                <div class="stars-inner"></div>
28                              </div>
29                            </div>
30                            <div id="rating-value"></div>
31                          </div>
32                        </div>
33                      </div>
34                    </div>
35                  </div>
36                </div>
37              </li>
38            {% endfor %}
39          </ul>
40        </div>
41      </div>
42    </div>
43  </div>
44  <div class="product-item_footer col-md-3 d-md-block">
45    <div class="mb-3">
46      <div class="product-price mb-2">
47        <div class="text-gray-100" style="background-color: #f5f5f5; width: 80px;text-align: center; padding: 5px;">{{page_obj}}

```

```

products > templates > product > jumia_list.html
101  </div>
102  </div>
103  </div>
104  </div>
105  </div>
106  </div>
107  </div>
108  </div>
109  </div>
110  </div>
111  </div>
112  </div>
113  </div>
114  </div>
115  </div>
116  </div>
117  </div>
118  </div>
119  </div>
120  </div>
121  </div>
122  </div>
123  </div>
124  </div>
125  </div>
126  </div>
127  </div>
128  </div>
129  </div>
130  <!-- Shop Page Navigation -->
131  <div class="pagination">
132    <span>
133      {% if page_obj.has_previous %}
134        <a href="{% param_replace request.page=1 %}">&larr; first</a>
135        <a href="{% param_replace request.page=page_obj.previous_page_number %}">previous</a>
136      {% endif %}
137    </span>
138  </div>

```

```

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

```

- Product/manu.html

```

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

```

- Product/Souq_list.html

```

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

```

```

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

```

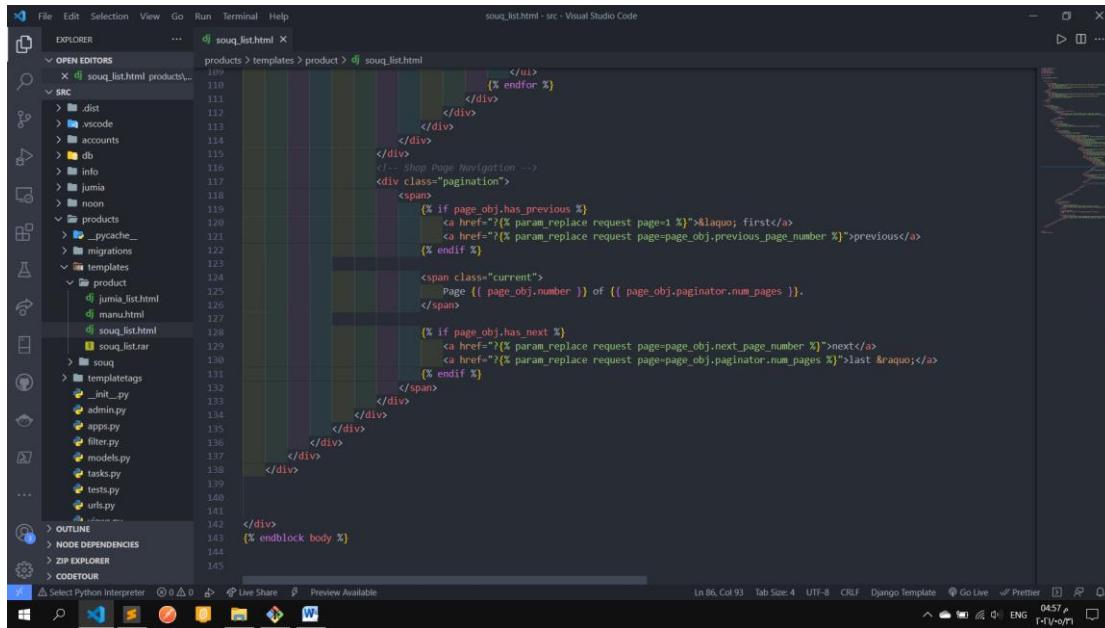
```

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

```

products > templates > product > souq_list.html
85   <div class="stars-inner"></div>
86   </div>
87   <div id="rating-value"></div>
88 </div>
89 </div>
90 <div class="product-item__footer col-md-3 d-md-block">
91   <div class="product-price mb-2">
92     <div class="text-gray-100" style="background-color: #f0f0f0; width: 80px; text-align: center;">
93       {{product.price}}
94     </div>
95   </div>
96 </div>
97 </div>
98 </div>
99 </div>
100 </li>
101 <div class="font-size-12 p-0 text-gray-100 mb-4 d-md-block">
102   <ul class="list-group list-group-flush">
103     <li class="line-clamp-5 mb-1 list-bullet">{{product.description|safe|truncatewords:15}}</li>
104   </ul>
105 </div>
106 </div>
107 </div>
108 </li>
109 [% endif %]
110 </div>
111 </div>
112 </div>
113 <div>
114   <div>
115     <div>
116       <div>
117         <div>
118           &#x2022; page_obj.has_previous %}
119           <a href="?% param_replace request.page=1 %">&laquo; first</a>
120           <a href="?% param_replace request.page=page_obj.previous_page_number %">previous</a>
121         </div>
122       </div>
123     </div>
124   </div>
125 </div>
126 </div>
127 </div>
128 </div>

```

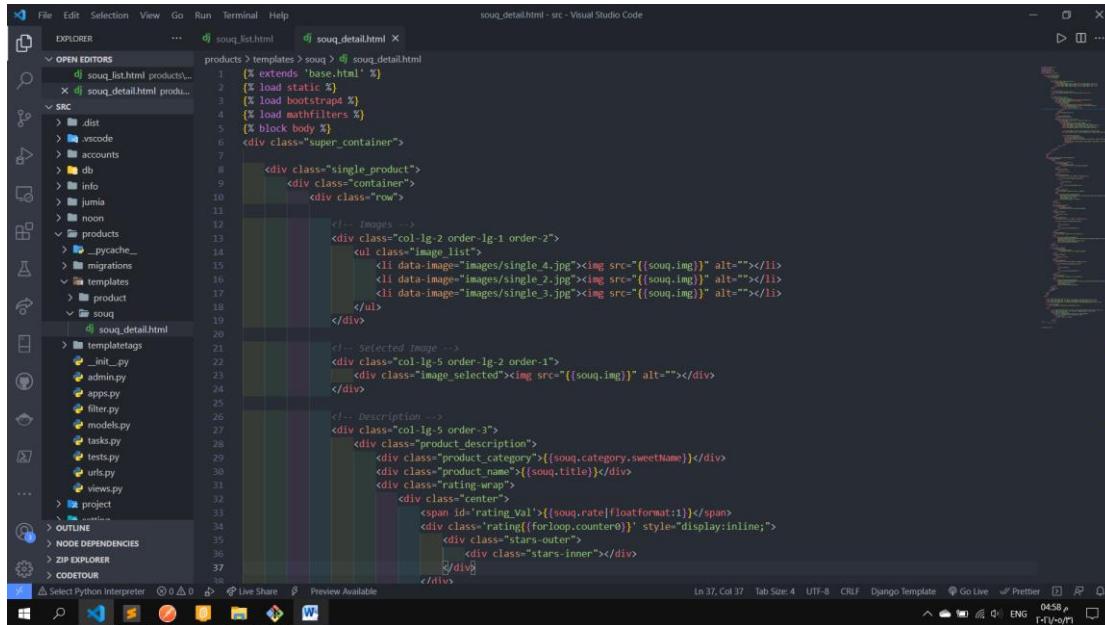


```

File Edit Selection View Go Run Terminal Help
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.rst
    > 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
Line 86, Col 93 Tab Size: 4 UTF-8 CRLF Django Template Go Live Prettier 0457.p

```

- o Souq/Souq_detail.html



```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS products > templates > souq > souq_detail.html
SRC
  > .dist
  > vscode
  > accounts
  > db
  > info
  > jumia
  > noon
  > products
    > __pycache__
    > migrations
    > templates
      > product
        souq_list.html
        souq_detail.html
    > souq
    > templatetags
      __init__.py
      admin.py
      apps.py
      filter.py
      models.py
      tasks.py
      tests.py
      views.py
  > project
  > OUTLINE
  > NODE DEPENDENCIES
  > ZIP EXPLORER
  > CODETOUR
Select Python Interpreter 0 0 Live Share Preview Available
Line 37, Col 37 Tab Size: 4 UTF-8 CRLF Django Template Go Live Prettier 0458.p

```

APC

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

- File Explorer (Left):** Shows the project structure under "SRC". Key files include `souq_list.html`, `souq_detail.html`, `product_interest.html`, `products.py`, `__init__.py`, `admin.py`, `apps.py`, `filter.py`, `models.py`, `tasks.py`, `tests.py`, `urls.py`, and `views.py`.
- Open Editors (Top):** Displays two files: `souq_list.html` and `souq_detail.html`.
- Code Editor (Main Area):** The `souq_detail.html` file is open, showing Django template code. It includes sections for product details, user authentication, and a form for product interest.
- 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-style icons for file operations like Open, Save, Find, and Print.

```

souq_detail.html - src - Visual Studio Code

File Edit Selection View Go Run Terminal Help
OPEN EDITORS products > templates > souq > souq_detail.html
src
  > dist
  > vscode
  > accounts
  > db
  > info
  > jumia
  > noon
  > products
    > __pycache__
    > migrations
    > templates
      > product
      > souq
        > souq_detail.html
  > templatetags
    > __init__.py
  admin.py
  apps.py
  filter.py
  models.py
  tasks.py
  tests.py
  urls.py
  views.py
> project
  > __init__.py
  > settings.py
  > urls.py
  > wsgi.py
  > static
    > media
      > images
        > souq
        > souq_detail.html
  > staticfiles
    > collectstatic
    > migrate
    > runserver
    > startapp
    > startproject
  > node_modules
  > zip_explorer
  > codetour
  Select Python Interpreter
  Live Share
  Preview Available
  Line 77, Col 13 Tab Size: 4 UTF-8 CRLF Django Template Go Live Prettier
  05:01 PM ENG (UTC+0)

```

```

<td class="item-img">
  
</td>
<td class="item-name">
  {{product.title}}
</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: #rgb(64, 64, 228); ">Souq</h5>
</td>
<td>
  <a data-gtmid="product-buy|Souq|eglen"
     productpath="/eg/en/off-cliff-cotton-contrast-side-stripe-drawstringelastic-waist-slimfit-sweatpants-for-men-bl"
     target="_blank" rel="nofollow"
     href="{{product.url}}"
     class="btn btn-primary">Buy Now</a>
</td>
</tr>
  {% endfor %}
  {% for product in jumia %}
    <td class="item-img">
      
    </td>
    <td class="item-name">
      {{product.title}}
    </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: #rgb(212, 88, 30); ">Jumia</h5>
    </td>
    <td>
      <a data-gtmid="product-buy|Souq|eglen"
         productpath="/eg/en/off-cliff-cotton-contrast-side-stripe-drawstringelastic-waist-slimfit-sweatpants-for-men-black"
         target="_blank" rel="nofollow"
         href="https://www.jumia.com.eg/{{product.url}}"
         class="btn btn-primary">Buy Now</a>
    </td>
  </tr>
  {% endfor %}

```

```

souq_detail.html - src - Visual Studio Code

File Edit Selection View Go Run Terminal Help
OPEN EDITORS products > templates > souq > souq_detail.html
src
  > dist
  > vscode
  > accounts
  > db
  > info
  > jumia
  > noon
  > products
    > __pycache__
    > migrations
    > templates
      > product
      > souq
        > souq_detail.html
  > templatetags
    > __init__.py
  admin.py
  apps.py
  filter.py
  models.py
  tasks.py
  tests.py
  urls.py
  views.py
> project
  > __init__.py
  > settings.py
  > urls.py
  > wsgi.py
  > static
    > media
      > images
        > souq
        > souq_detail.html
  > staticfiles
    > collectstatic
    > migrate
    > runserver
    > startapp
    > startproject
  > node_modules
  > zip_explorer
  > codetour
  Select Python Interpreter
  Live Share
  Preview Available
  Line 77, Col 13 Tab Size: 4 UTF-8 CRLF Django Template Go Live Prettier
  05:01 PM ENG (UTC+0)

```

```

<td class="item-img">
  
</td>
<td class="item-name">
  {{product.title}}
</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: #rgb(212, 88, 30); ">Jumia</h5>
</td>
<td>
  <a data-gtmid="product-buy|Souq|eglen"
     productpath="/eg/en/off-cliff-cotton-contrast-side-stripe-drawstringelastic-waist-slimfit-sweatpants-for-men-black"
     target="_blank" rel="nofollow"
     href="https://www.jumia.com.eg/{{product.url}}"
     class="btn btn-primary">Buy Now</a>
</td>
</tr>
  {% endfor %}
  {% for product in jumia %}
    <td class="item-img">
      
    </td>
    <td class="item-name">
      {{product.title}}
    </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: #rgb(212, 88, 30); ">Jumia</h5>
    </td>
    <td>
      <a data-gtmid="product-buy|Souq|eglen"
         productpath="/eg/en/off-cliff-cotton-contrast-side-stripe-drawstringelastic-waist-slimfit-sweatpants-for-men-black"
         target="_blank" rel="nofollow"
         href="https://www.jumia.com.eg/{{product.url}}"
         class="btn btn-primary">Buy Now</a>
    </td>
  </tr>
  {% endfor %}

```

```

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

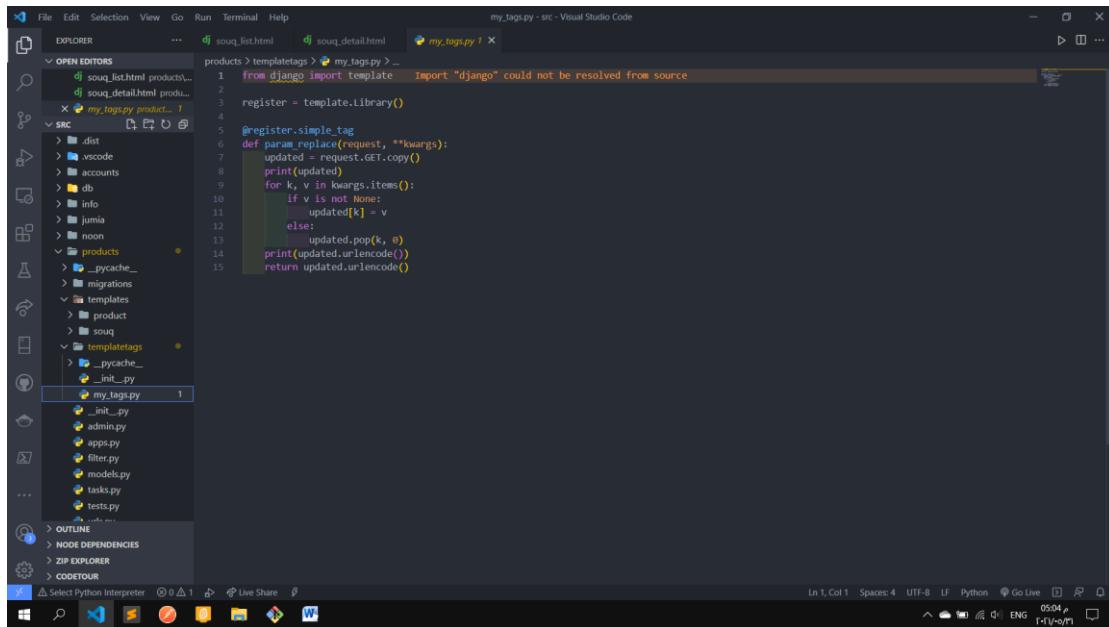
<!-- amcharts javascript sources -->
<script type="text/javascript" src="https://www.amcharts.com/lib/3/amcharts.js"></script>
<script type="text/javascript" src="https://www.amcharts.com/lib/3/serial.js"></script>
<script type="text/javascript" src="https://www.amcharts.com/lib/3/themes/patterns.js">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



```

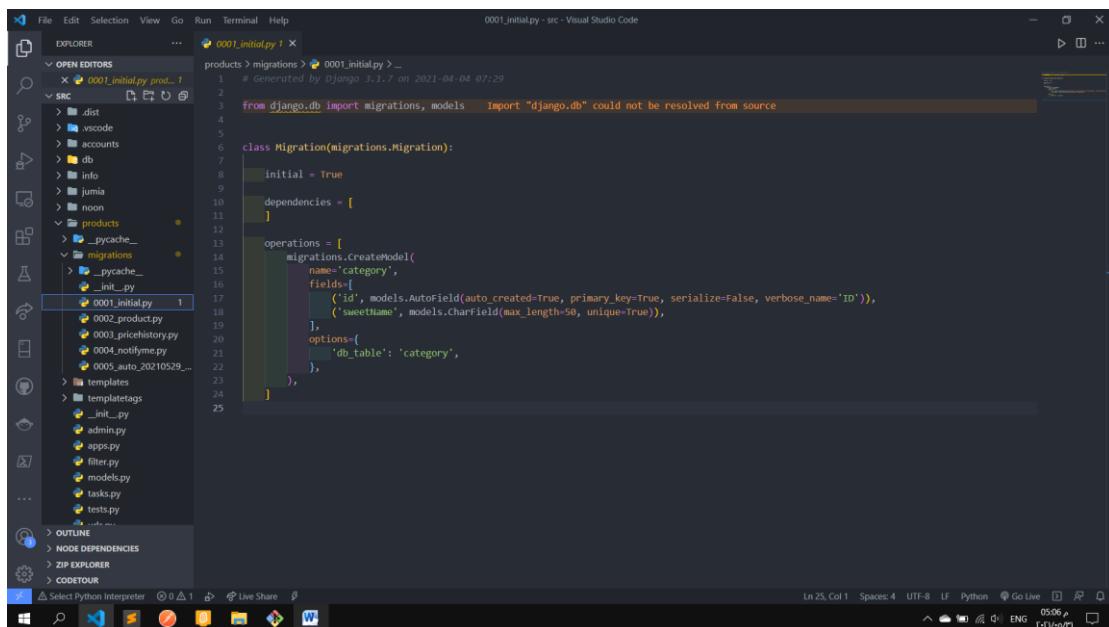
File Edit Selection View Go Run Terminal Help
my_tags.py - src - Visual Studio Code
EXPLORER ... dj souq_list.html dj souq_detail.html my_tags.py 1
OPEN EDITORS products > templatetags > my_tags.py ...
1 from django import template
2     import "django" could not be resolved from source
3 register = 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. The tag's implementation takes a 'request' object and a keyword argument dictionary 'kwargs'. It creates a copy of the request's GET parameters, prints the original parameters, and then iterates over the keyword arguments. If a value is not None, it adds a new parameter to the copied object with the same key and value. Otherwise, it removes the key from the copied object. Finally, it prints the encoded URL of the modified parameters and returns it.

11. Migrations

- o 0001_initial.py



```

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

```

The screenshot shows the Visual Studio Code interface with the '0001_initial.py' file open in the editor. The file is part of a Django migration. It starts with a comment indicating it was generated by Django 3.1.7 on April 4, 2021, at 07:29. It imports 'migrations' and 'models' from 'django.db'. The class 'Migration' is defined, setting 'initial' to True and defining an empty list for dependencies. The 'operations' list 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 character field with a maximum length of 50 and uniqueness). The model is defined with the database table name 'category'.

- 0002_product.py

```

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

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

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

```

- 0003_pricehistory.py

```

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

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

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

```

- o 0004_notifyme.py

```

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

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

```

- o 0005_auto_20210529_0605.py

```

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

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

```

Souq:

1. Models

```

models.py - souq - Visual Studio Code

File Edit Selection View Go Run Terminal Help
EXPLORER OPEN EDITORS ...
SRC models.py souq ...
models.py ...
souq > models.py ...
1 from django.db import models Import "django.db" could not be resolved from source
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.TextField(default="")
10    ean = models.CharField(max_length=50, blank=True, null=True)
11    active = models.BooleanField(blank=True, null=True)
12    lastprice = models.CharField(max_length=50, blank=True, null=True)
13    souqid = models.TextField()
14    rate = models.FloatField()
15    category=models.ForeignKey("products.category",verbose_name="category", related_name="souq",on_delete=models.CASCADE,default=1)
16
17 class Meta:
18     db_table = 'souq'

```

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 ...
souq > admin.py ...
1 from django.contrib import admin Import "django.contrib" could not be resolved from source
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

The screenshot shows the Visual Studio Code interface with a Python Django project open. The Explorer sidebar on the left displays the project structure, including a 'views.py' file under the 'src/souq' folder. The 'views.py' file contains the following code:

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

A red squiggle underline is under the first line of code, indicating a syntax error. The status bar at the bottom shows 'Ln 1, Col 1' and other details like 'Spaces: 4', 'UTF-8', 'Python', and 'Go Live'.

6. Migrations

- o 0001_initial.py

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

- File Explorer (Left):** Shows the project structure under the 'SRC' folder:
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - __pycache__
 - migrations
 - __pycache__
 - __init__.py
 - 0001_initial.py (selected)
 - 0002_remove_souq_sk...
 - 0003_auto_20210403...
 - 0004_souq_category.py
 - 0005_souq_urly.py
 - 0006_auto_20210404...
 - admin.py
 - apps.py
 - models.py
 - souq_detail.html
 - OUTLINE
 - NODE DEPENDENCIES
 - ZIP EXPLORER
 - CODETOOL

Editor Area (Center): The code editor displays the content of the selected migration file, '0001_initial.py'. The code defines a single migration class 'Migration' with an initial state and no dependencies. It creates a model 'souq' with fields for id, sku, title, manufacturer, description, img,ean, active, lastprice, souqid, and rate.

```
0001_initial.py | x
File Edit Selection View Go Run Terminal Help 0001_initial.py - src - Visual Studio Code

OPEN EDITORS
SRC
  0001_initial.py 1 > migrations > 0001_initial.py > Migration
    Generated by Django 3.1.7 on 2021-04-03 13:42

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

    class Migration(migrations.Migration):
        initial = True
        dependencies = [
        ]
        operations = [
            migrations.CreateModel(
                name='souq',
                fields=[
                    ('id', models.AutoField(auto_created=True, primary_key=True, serialize=False, verbose_name='ID')),
                    ('sku', models.CharField(blank=True, max_length=50, null=True)),
                    ('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()),
                    ('ean', 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)),
                    ('souqid', models.IntegerField()),
                    ('rate', models.IntegerField()),
                ],
                options={
                    'db_table': 'souq',
                },
            ),
        ],
    ]
```

Bottom status bar: Line 33, Col 6 | Spaces: 4 | UTF-8 | LF | Python | Go Live | 05:19 | ENG | D:\Django\Py

- 0002_remove_souq_sku.py

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

- File Explorer:** On the left, it shows the project structure under the 'src' folder:
 - souq > migrations > 0002_remove_seq_sku.py
 - 0002_remove_seq_sku.py (selected)
 - 0003_auto_20210403... (disabled)
 - 0004_souq_category.py
 - 0005_souq_url.py
 - 0006_auto_20210404... (disabled)
 - __init__.py
 - admin.py
 - apps.py
 - models.py
 - souq_detail.html
- Code Editor:** The main area displays the Python code for the 'migrations' module.

```
from django.db import migrations

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

- 0003_auto_20210403_1814.py

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

- Title Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help, 0003_auto_20210403_1814.py - src - Visual Studio Code
- Explorer Bar (Left):**
 - OPENED EDITORS: 0003_auto_20210403_1814.py
 - SRC
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - __pycache__
 - migrations
 - __pycache__
 - _init_.py
 - 0001_initial.py
 - 0002_remove_souq_sk...
 - 0003_auto_20210403_...
 - 0004_souq_category.py
 - 0005_souq_url.py
 - 0006_auto_20210404_...
 - _init_.py
 - admin.py
 - apps.py
 - models.py
 - souq_detail.html
- Code Editor (Main Area):**

```
souq > migrations > 0003_auto_20210403_1814.py - ...
  ... # Generated by Django 3.1.7 on 2021-04-03 16:14

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

  class Migration(migrations.Migration):
      dependencies = [
          ('souq', '0002_remove_souq_sku'),
      ]
      operations = [
          migrations.AlterField(
              model_name='souq',
              name='rate',
              field=models.FloatField(),
          ),
          migrations.AlterField(
              model_name='souq',
              name='souqId',
              field=models.TextField(),
          ),
      ],
  
```
- Bottom Status Bar:** Ln 24, Col 1 | Spaces: 4 | UTF-8 | LF | Python | Go Live | Select Python Interpreter | Live Share

- o 0004_souq_category.py

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

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

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

- o 0005_souq_url.py

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

- Title Bar:** 0005_souq_urlpy - src - Visual Studio Code
- File Explorer (Left):**
 - OPEN EDITORS: 0005_souq_urlpy
 - SRC
 - dist
 - vscode
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - setting
 - souq
 - __pycache__
 - migrations
 - __pycache__
 - __init__.py
 - 0001_initial.py
 - 0002_remove_souq_sk...
 - 0003_auto_20210403...
 - 0004_souq_category.py
 - 0005_souq_urlpy
 - 0006_auto_20210404...
 - admin.py
 - apps.py
 - models.py
 - souq_detail.html
 - OUTLINE, NODE DEPENDENCIES, ZIP EXPLORER, CODETOUR
 - Bottom Bar: Select Python Interpreter, Live Share, Ln 19 Col 1, Spaces: 4, UTF-8, LF, Python, Go Live, and various system icons.

- o 0006_auto_20210404_1340.py

```

File Edit Selection View Go Run Terminal Help
0006_auto_20210404_1340.py - src - Visual Studio Code

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

```

File Explorer:

- OPEN EDITORS: 0006_auto_20210404_1340.py
- SRC:
 - > dist
 - > vscode
 - > accounts
 - > db
 - > info
 - > jumia
 - > noon
 - > products
 - > project
 - > setting
 - > souq
 - > __pycache__
 - > migrations
 - > __pycache__
 - > _init_.py
 - > 0001_initial.py
 - > 0002_remove_souq_sk...
 - > 0003_auto_20210403_...
 - > 0004_souq_category.py
 - > 0005_souq_url.py
 - 0006_auto_20210404_1340.py
- ... (Windows taskbar icons)

Bottom status bar: Ln 19, Col 1 | Spaces: 4 | UTF-8 | LF | Python | Go Live | 0525

Settings:

1. Models

```

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

EXPLORER OPEN EDITORS ...
models.py ...
setting > models.py ...
1 from django.db import models
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'


```

File Explorer:

- OPEN EDITORS: models.py
- SRC:
 - > dist
 - > vscode
 - > accounts
 - > db
 - > info
 - > jumia
 - > noon
 - > products
 - > project
 - > setting
 - > __pycache__
 - > migrations
 - > templates
 - > __init__.py
 - > admin.py
 - > apps.py
 - models.py
 - tests.py
 - urls.py
 - views.py
 - > souq
 - > static
 - > utils
 - > .gitignore
 - > celerybeat.pid
- ... (Windows taskbar icons)

Bottom status bar: Ln 1, Col 1 | Spaces: 4 | UTF-8 | LF | Python | Go Live | 0525

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
```

This 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 the module 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
```

This 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 the module cannot be resolved from source. The file is located in the 'src' directory, which also contains 'setting' and 'views' sub-directories.

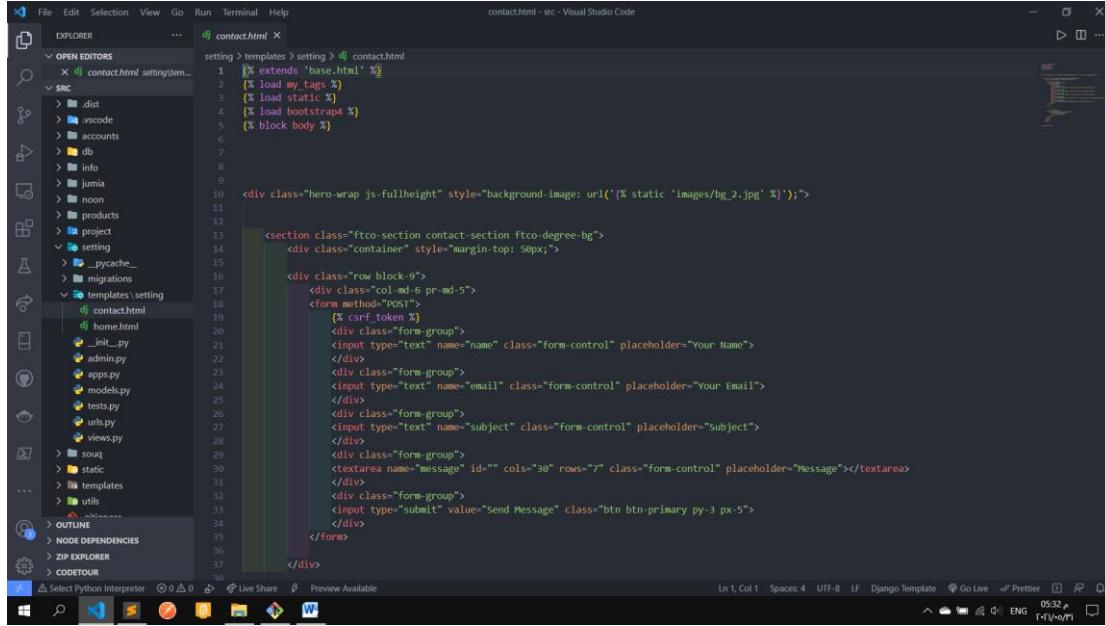
6. Views

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

- File Explorer (Left):** Shows the project structure with files like `views.py`, `setting.py`, `migrations`, `templates`, and `models.py`.
- Code Editor (Center):** Displays the `views.py` file content. The code defines a class `itemDetails` that extends `DetailView`. It includes a `get` method to retrieve the last item from the database and a `post` method to handle contact form submissions. The `post` method extracts name, email, and message from the request, creates a `Message` object, and sends an email using the `send_mail` function.
- Status Bar (Bottom):** Shows the current file is `views.py`, the line number is 55, and the column number is 4. It also displays the Python language version, live share status, and other system information.

7. Templates

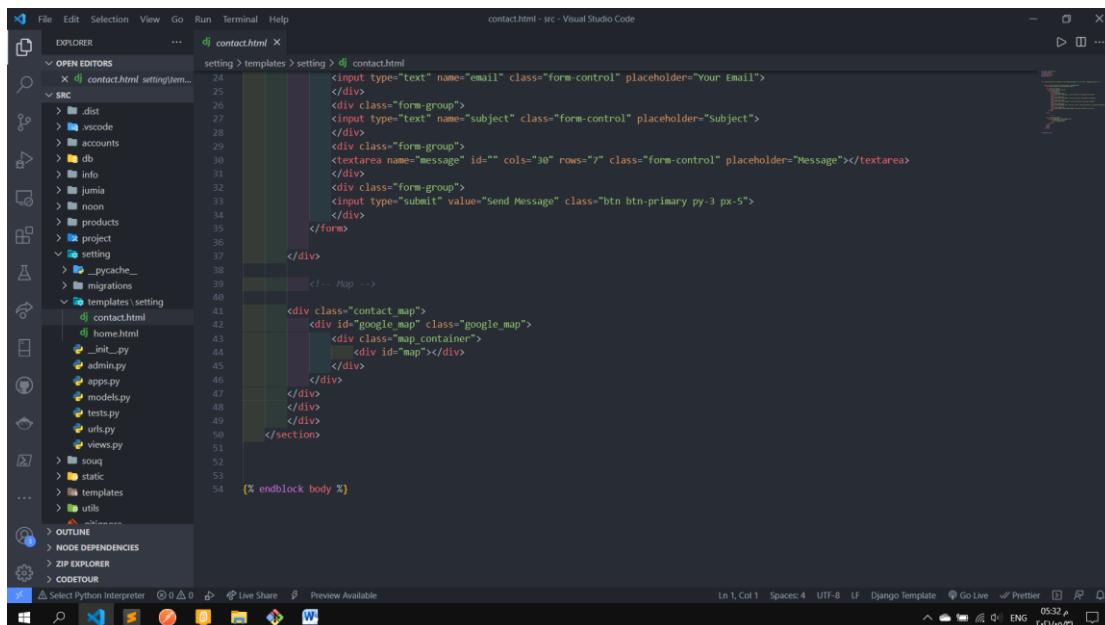
- o Setting/Contact.html



```

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

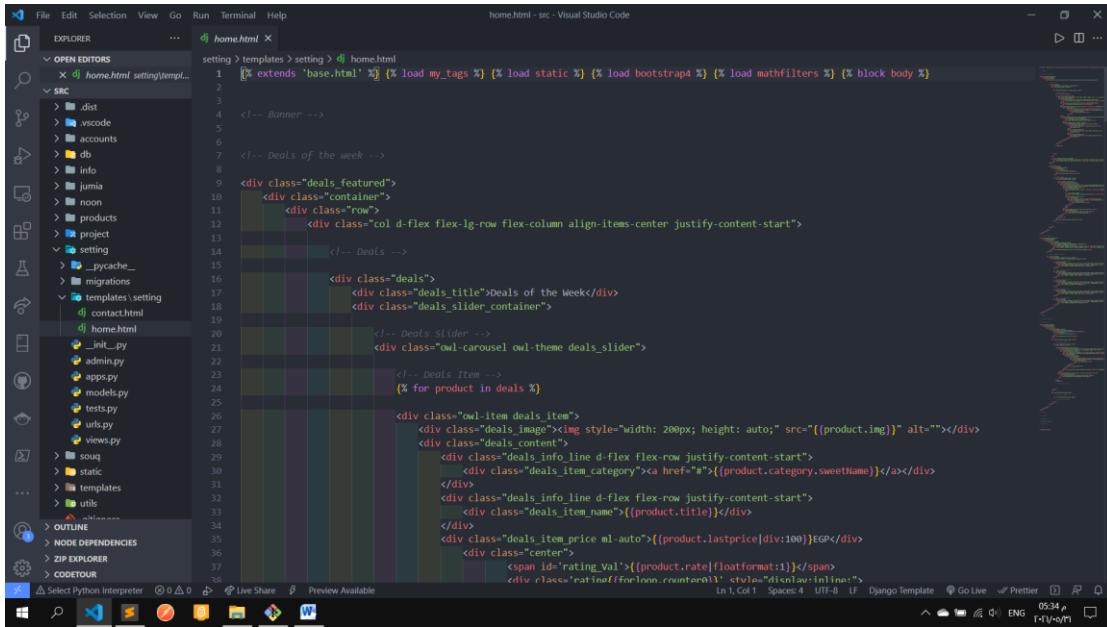
6
7
8
9
10 <div class="hero-wrap js-fullheight" style="background-image: url('{{ static 'images/bg_2.jpg' }}');>
11
12 <section class="ftco-section contact-section ftco-degree-bg">
13   <div class="container" style="margin-top: 50px;">
14
15     <div class="row block-9">
16       <div class="col-md-6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

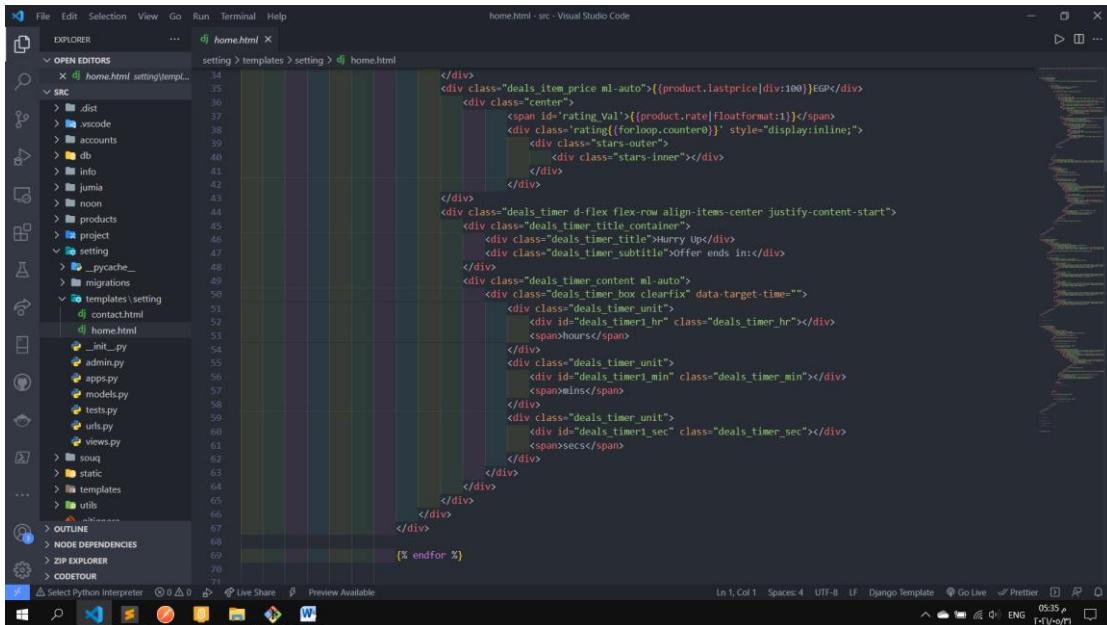
- Setting\home.html



```

1  [% extends 'base.html' %] (% load my_tags %) (% load static %) (% load bootstrap4 %) (% load mathfilters %) (% block body %)
2
3  <!-- Banner -->
4
5
6
7  <!-- Deals of the week -->
8
9  <div class="deals_featured">
10   <div class="container">
11    <div class="row">
12     <div class="col d-flex flex-lg-row flex-column align-items-center justify-content-start">
13      <!-- Deals -->
14
15      <div class="deals">
16       <div class="deals_title">Deals of the Week</div>
17       <div class="deals_slider_container">
18
19        <!-- Deal's Slider -->
20        <div class="owl-carousel owl-theme deals_slider">
21
22         <!-- Deals Item -->
23         <% for product in deals %>
24
25          <div class="owl-item deals_item">
26           <div class="deals_image"></div>
27           <div class="deals_content">
28            <div class="deals_info_line d-flex flex-row justify-content-start">
29              <div class="deals_item_category"><a href="#">{{product.category.sweetname}}</a></div>
30            </div>
31            <div class="deals_info_line d-flex flex-row justify-content-start">
32              <div class="deals_item_name">{{product.title}}</div>
33            </div>
34            <div class="deals_item_price ml-auto">{{(product.lastprice|div:100)}|EGP}</div>
35            <div class="center">
36              <span id="rating_Val">{{product.rate|floatformat:1}}</span>
37              <div class="rating" style="display:inline;">
38                <div class="stars-outer">
39                  <div class="stars-inner"></div>
40                </div>
41              </div>
42            </div>
43            <div class="deals_timer d-flex flex-row align-items-center justify-content-start">
44              <div class="deals_timer_title_container">
45                <div class="deals_timer_title">Hurry Up</div>
46                <div class="deals_timer_subtitle">Offer ends in:</div>
47              </div>
48              <div class="deals_timer_content ml-auto">
49                <div class="deals_timer_box clearfix" data-target-time=">
50                  <div class="deals_timer_unit">
51                    <div id="deals_timer_1_hr" class="deals_timer_hr"></div>
52                    <span>hours</span>
53                  </div>
54                  <div class="deals_timer_unit">
55                    <div id="deals_timer_1_min" class="deals_timer_min"></div>
56                    <span>mins</span>
57                  </div>
58                  <div class="deals_timer_unit">
59                    <div id="deals_timer_1_sec" class="deals_timer_sec"></div>
60                    <span>secs</span>
61                  </div>
62                </div>
63              </div>
64            </div>
65          </div>
66        </div>
67      <% endfor %>
68    </div>
69  </div>
70
71
72
73
74
75
76
77
78
79
7

```



```

1  [% extends 'base.html' %] (% load my_tags %) (% load static %) (% load bootstrap4 %) (% load mathfilters %) (% block body %)
2
3  <!-- Banner -->
4
5
6
7  <!-- Deals of the week -->
8
9  <div class="deals_featured">
10   <div class="container">
11    <div class="row">
12     <div class="col d-flex flex-lg-row flex-column align-items-center justify-content-start">
13      <!-- Deals -->
14
15      <div class="deals">
16       <div class="deals_title">Deals of the Week</div>
17       <div class="deals_slider_container">
18
19        <!-- Deal's Slider -->
20        <div class="owl-carousel owl-theme deals_slider">
21
22         <!-- Deals Item -->
23         <% for product in deals %>
24
25          <div class="owl-item deals_item">
26           <div class="deals_image"></div>
27           <div class="deals_content">
28            <div class="deals_info_line d-flex flex-row justify-content-start">
29              <div class="deals_item_category"><a href="#">{{product.category.sweetname}}</a></div>
30            </div>
31            <div class="deals_info_line d-flex flex-row justify-content-start">
32              <div class="deals_item_name">{{product.title}}</div>
33            </div>
34            <div class="deals_item_price ml-auto">{{(product.lastprice|div:100)}|EGP}</div>
35            <div class="center">
36              <span id="rating_Val">{{product.rate|floatformat:1}}</span>
37              <div class="rating" style="display:inline;">
38                <div class="stars-outer">
39                  <div class="stars-inner"></div>
40                </div>
41              </div>
42            </div>
43            <div class="deals_timer d-flex flex-row align-items-center justify-content-start">
44              <div class="deals_timer_title_container">
45                <div class="deals_timer_title">Hurry Up</div>
46                <div class="deals_timer_subtitle">Offer ends in:</div>
47              </div>
48              <div class="deals_timer_content ml-auto">
49                <div class="deals_timer_box clearfix" data-target-time=">
50                  <div class="deals_timer_unit">
51                    <div id="deals_timer_1_hr" class="deals_timer_hr"></div>
52                    <span>hours</span>
53                  </div>
54                  <div class="deals_timer_unit">
55                    <div id="deals_timer_1_min" class="deals_timer_min"></div>
56                    <span>mins</span>
57                  </div>
58                  <div class="deals_timer_unit">
59                    <div id="deals_timer_1_sec" class="deals_timer_sec"></div>
60                    <span>secs</span>
61                  </div>
62                </div>
63              </div>
64            </div>
65          </div>
66        </div>
67      <% endfor %>
68    </div>
69  </div>
70
71
72
73
74
75
76
77
78
79
7

```

```

<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>
          <div class="product_name">
            <a href="/product/{{product.id}}">{{product.title|truncatechars:15}}</a>
          </div>
        </div>
      </div>
    [% endfor %]
  </div>
</div>

```

```

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

```

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 </div>
164 </div>
165 </div>
166 </div>
167 </div>
168 </div>
169 </div>
170 </div>
171 </div>
172 </div>
173 </div>
174 </div>
175 </div>
176 </div>
177 </div>
178 </div>
179 </div>
180 </div>
181 </div>
182 </div>
183 </div>
184 </div>
185 </div>
186 </div>
187 </div>
188 </div>
189 </div>
190 </div>
191 </div>
192 </div>
193 </div>
194 </div>
195 </div>
196 </div>
197 </div>
198 </div>
199 </div>

```

OUTLINE

NODE DEPENDENCIES

ZIP EXPLORER

CODETOUR

Select Python Interpreter Live Share Preview Available

Ln 1, Col 1 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 0537_P ENG [11/0/PM]

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 </div>
175 </div>
176 </div>
177 </div>
178 </div>
179 </div>
180 </div>
181 </div>
182 </div>
183 </div>
184 </div>
185 </div>
186 </div>
187 </div>
188 </div>
189 </div>
190 </div>
191 </div>
192 </div>
193 </div>
194 </div>
195 </div>
196 </div>
197 </div>
198 </div>
199 </div>

```

OUTLINE

NODE DEPENDENCIES

ZIP EXPLORER

CODETOUR

Select Python Interpreter Live Share Preview Available

Ln 214, Col 7 Spaces: 4 UTF-8 LF Django Template Go Live Prettier 0538_P ENG [11/0/PM]

APC

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

- File Explorer (Left):** Shows the project structure with files like `home.html`, `home.html setting`, `__init__.py`, `admin.py`, `apps.py`, `models.py`, `tests.py`, `urls.py`, and `views.py`. It also lists `templates` and `utils` folders.
- Code Editor (Center):** The `home.html` file is open, displaying HTML code for a homepage. The code includes sections for popular categories, best sellers, and a slider. A tooltip from the Linter extension highlights the word "active" in the CSS class `active`.
- Bottom Status Bar:** Shows the current file path (`home.html - src - Visual Studio Code`), line number (L 214), spaces (Spaces: 4), encoding (UTF-8), and other status information.

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

- File Explorer (Left):** Shows the project structure with files like `home.html`, `best_sellers.html`, `category.html`, `contact.html`, `index.html`, `product.html`, and `search.html`.
- Editor (Center):** Displays the content of `home.html`. The code is a Django template with Jinja syntax. It includes sections for "Best Sellers" and "New Products". The "Best Sellers" section uses a slider component. The "New Products" section shows a single product item with a rating system.
- Bottom Status Bar:** Shows file statistics (Line 248, Col 63), workspace settings (Spaces: 4, UFF-B, LF), and developer tools (Django Template, Go Live, Prettier).

```

<div class="bestsellers_price discount">{{product.lastprice|div:100}}EGP</span></div>
</div>
<div class="bestsellers_fav active"><i class="fas fa-heart"></i></div>


- >-25%</li>
- >new</li>


</div>
</div>
<% endfor %>
</div>
<div class="bestsellers_panel panel">
<div class="bestsellers_slider slider">

```

8. Migrations

- 0001_initial.py

```

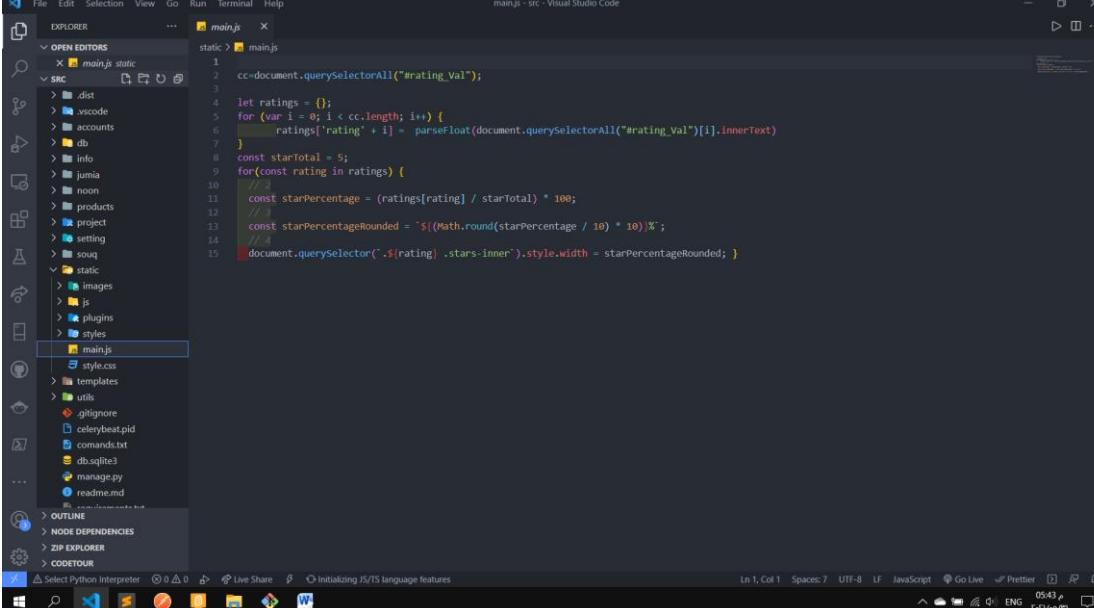
# Generated by Django 3.1.7 on 2021-05-27 09:43
from django.db import migrations, models
import django.db

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:

- o Main.js



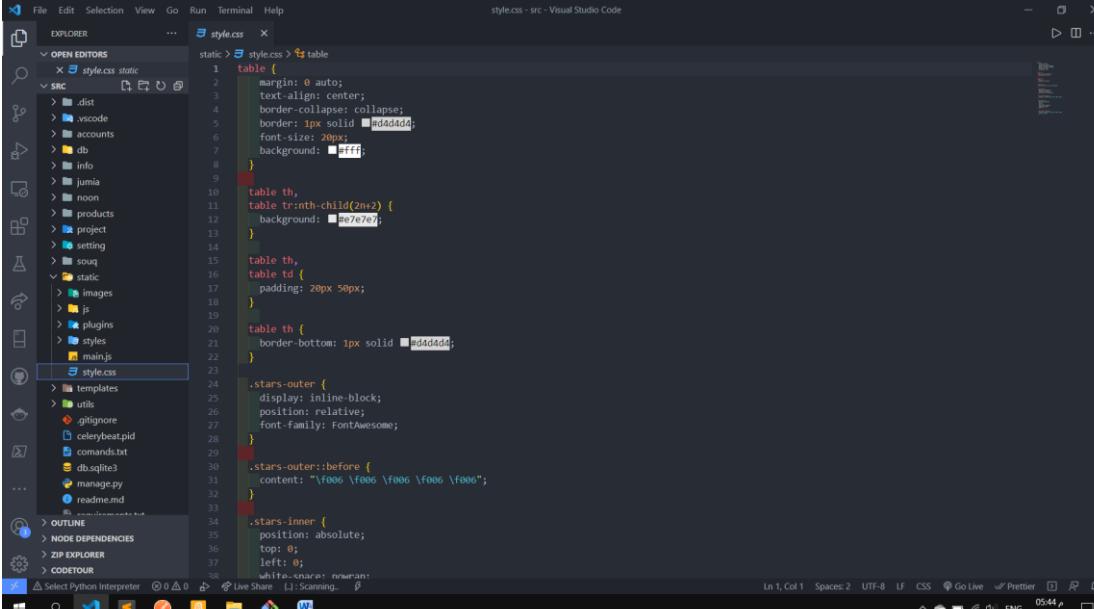
```

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

```

The screenshot shows the Visual Studio Code interface with the 'main.js' file open in the editor. The code is a script that iterates through all elements with the class 'rating_val', converts their inner text to floats, and then calculates the percentage of the total. It then rounds this percentage to the nearest 10 units and sets the width of the corresponding element's inner container to match.

- o Style.css



```

File Edit Selection View Go Run Terminal Help
style.css - src - Visual Studio Code
EXPLORER OPEN EDITORS ... style.css
static > style.css > table
1 table {
2   margin: 0 auto;
3   text-align: center;
4   border-collapse: collapse;
5   border: 1px solid #d4d4d4;
6   font-size: 20px;
7   background: #fff;
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 }

```

The screenshot shows the Visual Studio Code interface with the 'style.css' file open in the editor. The CSS defines styles for a table, its header and rows, and a custom rating component. The table has a central alignment and a collapse border. The header row has a light gray background. The table cells have padding. The rating component is styled as an inline-block element with a relative position, containing five icons representing stars. The inner part of the rating is an absolute positioned element with nowrap white space.

```

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:

- o 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}]

```

- Manage

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

- File Explorer:** Shows the project structure with files like manage.py, README.md, requirements.txt, and several Python scripts.
- Code Editor:** Displays the content of manage.py. The code defines a main() function that imports execute_from_command_line from django.core.management. A tooltip is visible over the import statement, indicating that "django.core.management" could not be resolved from source.
- Status Bar:** Shows the current file as manage.py - src - Visual Studio Code, and the status bar indicates the code is at line 1, column 1, with 0 spaces and 4 tabs.

o Requirements

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

- File Explorer (Left):** Shows the project structure with a tree view. The **SRC** folder is expanded, showing subfolders like **dist**, **vscode**, **accounts**, **db**, **info**, **jumia**, **noon**, **products**, **project**, **setting**, **souq**, **static**, **templates**, **utils**, and files like **ignore**, **celerybeat.pid**, **commands.txt**, **db.sqlite3**, **manage.py**, **readme.md**, **requirements.txt**, **scrapinglumia.py**, and **scrapingnoon.py**.
- Editor Area (Center):** The file **requirements.txt** is open, displaying a list of Python package dependencies with their versions. The list includes:
 - amqp==2.6.1
 - appdirs==1.4.4
 - asgiref==3.3.1
 - autopep8==1.5.6
 - beautifulsoup4==4.9.3
 - billiard==3.6.4.0
 - black==20.801
 - bua==0.0.1
 - celery==4.4.7
 - certifi==2020.12.5
 - cffi==1.14.5
 - click==7.1.2
 - click-didyoumean==0.0.3
 - click-plugins==1.1.1
 - click-repl==0.1.6
 - cssselect==1.1.0
 - Django==3.1.7
 - django-bootstrap4==3.0.1
 - django-celery-beat==2.2.0
 - django-chartjs==2.2.1
 - django-filter==2.4.0
 - django-flower==1.0.0
 - django-jinja==2.7.0
 - django-mathfilters==1.0.0
 - django-model-utils==4.1.1
 - django-notifications-hq==1.6.0
 - django-timezone-field==4.1.2
 - fake-useragent==0.1.11
 - flower==0.9.7
 - gevent==21.1.2
 - greenlet==1.1.0
 - humanize==0.5.1
 - idna==2.10
 - jellyfish==0.8.2
 - Jinja2==3.0.1
 - joblib==1.0.1
 - isoconflict==1.3.0
- Bottom Status Bar:** Shows the current file as **requirements.txt**, the line number as **1**, column number as **1**, and other status indicators like **Spaces: 4**, **UTF-8**, **L**, **pip requirements**, and **Go Live**.

APC

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

EXPLORER ... requirements.txt
OPEN EDITORS
requirements.txt
38 jsonfield==3.1.0
39 kombu==4.6.11
40 lxml==4.6.3
41 MarkupSafe==2.0.1
42 mypy_extensions==0.4.3
43 numpy==1.20.2
44 pandas==1.2.4
45 parsel==1.19.0
46 pathspec==0.8.1
47 Pillow==8.2.0
48 plumbum==1.7.0
49 prometheus-client==0.8.0
50 prompt_toolkit==3.6.16
51 psycopg2==2.8.6
52 pycodestyle==2.7.0
53 pycparser==2.20
54 pyee==8.1.0
55 pypldml32==223
56 pyppeteer==0.7.5
57 pyquery==1.4.3
58 python-crontab==2.5.1
59 python-dateutil==2.8.1
60 pytz==2021.1
61 pywin32==300
62 recordlinkage==0.14
63 redis==3.5.3
64 regex==2021.3.17
65 requests==2.25.1
66 requests-html==0.18.0
67 rpyc==5.6.1
68 scikit-learn==0.24.1
69 scipy==1.6.2
70 six==1.15.0
71 soupsieve==2.0.1
72 suplipse==4.1
73 superdesk==1.1.2.post1
74 threadpoolctl==2.1.0
```

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

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

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

- **Scraping [Jumia]**

```

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

❖ Scraping [Noon]



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

EXPLORER
OPEN EDITORS
scrapingoony.py 2
scrapingoony.py ...
1 import requests Import "requests" could not be resolved from source
2 import os
3 import django Import "django" could not be resolved from source
4 import sys "sys" is not accessible
5 import time
6 os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'project.settings')
7 django.setup()
8 from noon.models import Noon
9 from products.models import category
10
11 Categories = [
12     {"id": 1, "url": ["electronics-and-mobiles/video-games-10181"], "verbose": "Games Console"},
13     {"id": 4, "url": ["virtual-reality-phones-tablets"], "verbose": "VR"},
14     {"id": 5, "url": ["electronics-and-mobiles/mobiles-and-accessories"], "verbose": "Mobile Phone"},
15     {"id": 8, "url": ["electronics-and-mobiles/computers-and-accessories"], "verbose": "Computers"},
16     {"id": 23, "url": ["electronics-and-mobiles/wearable-technology"], "verbose": "Smart Watches"},
17 ]
18
19 headers = {
20     'authority': 'www.noon.com',
21     'pragma': 'no-cache',
22     'cache-control': 'no-cache, max-age=0, must-revalidate, no-store',
23     'x-locale': 'en-eg',
24     'x-content': 'mobile',
25     'x-mp': 'noon',
26     'x-platform': 'web',
27     'x-cms': 'v2',
28     'content-type': 'application/json',
29     'accept': 'application/json, text/plain, */*',
30     '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'
31     'origin': 'https://www.noon.com',
32     'sec-fetch-site': 'same-origin',
33     'sec-fetch-mode': 'cors',
34     'sec-fetch-dest': 'empty',
35     'referer': 'https://www.noon.com/egypt-en/electronics-and-mobiles/mobiles-and-accessories/mobiles-20095/apple',
36     'accept-language': 'en-US,en;q=0.9,ar;q=0.8'
37 }
38
39 def getCategory(url=['electronics-and-mobiles/wearable-technology'],page=1):
40     pass
41
42 def getFullCategory(url=['electronics-and-mobiles/mobiles-and-accessories'],page=1):
43     pass
44
45 if __name__ == '__main__':
46     print(getCategory())
47     print(getFullCategory())
48
49
50
51
52
53
54
55
56
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```

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

EXPLORER
OPEN EDITORS
scrapingoony.py 2
scrapingoony.py ...
scrapingoony.py ...

37 def getFullCategory(url='electronics-and-mobiles/wearable-technology',page=1):
38     categUrl = "https://www.noon.com/_svr/catalog/api/search"
39     payload=[{"brand":[]}, {"category":url, "filterKey":[], "f":{}}, {"sort": {"by": "popularity", "dir": "desc"}, "limit": 50, "page": page}
40     try:
41         response = requests.request("POST", categUrl, headers=headers, json=payload)
42     except:
43         pass
44     print(response.status_code)
45     if response.status_code==429:
46         time.sleep(10)
47         v=getFullCategory()
48     else:
49         response=response.json()
50         v=response.get('hits')
51     return(v)
52
53 # print(getFullCategory())
54
55 def dbSave(URL,id):
56     i=0
57     pages=1
58     while getFullCategory(URL,page=pages):
59         fulldata=getFullCategory(URL,page=pages)
60         for item in fulldata:
61             sku=item['sku']
62             title=item['name']
63             image_url=item['image_key']
64             primary_link=item['url']
65             if item['sale_price']== None:
66                 lastprice=item['price']
67             else:
68                 lastprice=item['sale_price']
69             manufacturer=item['brand']
70             fulldescription="em Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standa
71             active=True
72             "active" is not accessed
73             if "product_rating" in item:
74                 Rating=item['product_rating']['value']

Ln 1, Col 1 Spaces: 4 UTF-8 CR/LF Python > Go Live
100% 05:54 AM T-1/V-0/Y
```

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

EXPLORER ... scrapingoony.py 2
scrapingoony > ...
OPEN EDITORS
scrapingoony.py 2
scrapingoony > ...
65     if item['sale_price']== None:
66         lastprice=item['price']
67     else:
68         lastprice=item['sale_price']
69     manufacturer=item['brand']
70     fulldescription='en ipsum is simply dummy text of the printing and typesetting industry. lorem Ipsum has been the industry's standa
71     active==True "active" is not accessed
72     if 'product_rating' in item:
73         rating=item['product_rating']['value']
74     else:
75         rating=0
76     categoryobj=category.objects.get(pk=id)
77     # try:
78     c=Noon.objects.create(sku=sku,title=title,manufacturer=manufacturer,description=fullDescription,img=image_url,url=primary_link,activ
79     c.save()
80     print("done")
81     # except:
82     #     pass
83     print(i)
84     i+=1
85     pages+=pages+1
86     print(pages)
87
88 for c in categories:
89     print(f"scraping({c['verbose']}) now ")
90     dbSave(c['url'],c['id'])
91
92
> OUTLINE
> NODE DEPENDENCIES
> ZIP EXPLORER
> CODETOUR
Select Python Interpreter Live Share : Scanning...
```

Templates:

- Base.html

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

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

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

- File Explorer (Left):** Shows the project structure with a tree view. The **SRC** folder contains **dist**, **accounts**, **db**, **info**, **jumia**, **noon**, **products**, **project**, **setting**, **souq**, and **static**. The **templates** folder contains **base.html**.
- Editor (Center):** Displays the content of **base.html**. The code is a Django template with HTML and Jinja2 syntax. It includes sections for the header, top bar, and user authentication status.
- Bottom Status Bar:** Shows the current file as **base.html - src - Visual Studio Code**, line **Ln 1, Col 1**, tab size **4**, and encoding **UTF-8 LF**. It also includes icons for Python interpreter selection, live share, scanning, preview availability, and code coverage.

```

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

<!-- Search -->
<div class="col-lg-6 col-12 order-lg-2 order-3 text-lg-left text-right">
  <div class="header_search">
    <div class="header_search_content">
      <div class="header_search_form_container">
        <form action="{% url 'products:search_results' %}" class="header_search_form clearfix">
          <input type="search" required="required" name="q" class="header_search_input" placeholder="Search for products..." style="width: 100%; height: 100%; border: none; border-radius: 0; padding: 0; margin: 0; font-size: 1em; font-weight: bold; font-family: inherit; color: inherit; background-color: transparent; transition: all 0.3s ease;"/>
        <div class="custom_dropdown" style="display: none; position: absolute; top: -10px; left: 0; width: 100%; z-index: 1000; border: 1px solid #ccc; border-radius: 5px; background-color: white; padding: 5px; font-size: 0.9em; font-weight: normal; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
          <div class="custom_dropdown_list">
            <span class="custom_dropdown_placeholder clc">>All Categories</span>
            <ul class="clc">
              <li><a class="clc" href="#">All Categories</a></li>
              <li><a class="clc" href="#">Computers</a></li>
              <li><a class="clc" href="#">Laptops</a></li>
              <li><a class="clc" href="#">Cameras</a></li>
              <li><a class="clc" href="#">Hardware</a></li>
              <li><a class="clc" href="#">Smartphones</a></li>
            </ul>
          </div>
        </div>
        <button type="submit" class="header_search_button trans_300" value="Submit">Submit
      </form>
    </div>
  </div>
</div>

```

```

<!-- Main navigation -->
<nav class="main_nav">
  <div class="container">
    <div class="row">
      <div class="col">
        <div>
          <!-- Main Nav Menu -->
          <div class="main_nav_menu ml-4">
            <ul class="standard_dropdown main_nav_dropdown" style="display: flex; flex-flow: row; justify-content: space-around; list-style-type: none; padding: 0; margin: 0; font-size: 0.9em; font-weight: bold; font-family: inherit; color: inherit; transition: all 0.3s ease;*>
              <li><a href="/accounts/login/"><i class="fas fa-chevron-down"></i></a></li>
              <li><a href="{% url 'products:productname' %}"><span>Shop</span><i class="fas fa-chevron-down"></i></a></li>
              <li><a href="blog.html"><i class="fas fa-chevron-down"></i></a></li> ...
              <li><a href="{% url 'setting:contact' %}"><span>Contact</span><i class="fas fa-chevron-down"></i></a></li>
            </ul>
          </div>
        </div>
      </div>
    </div>
  </div>
</nav>

```

```

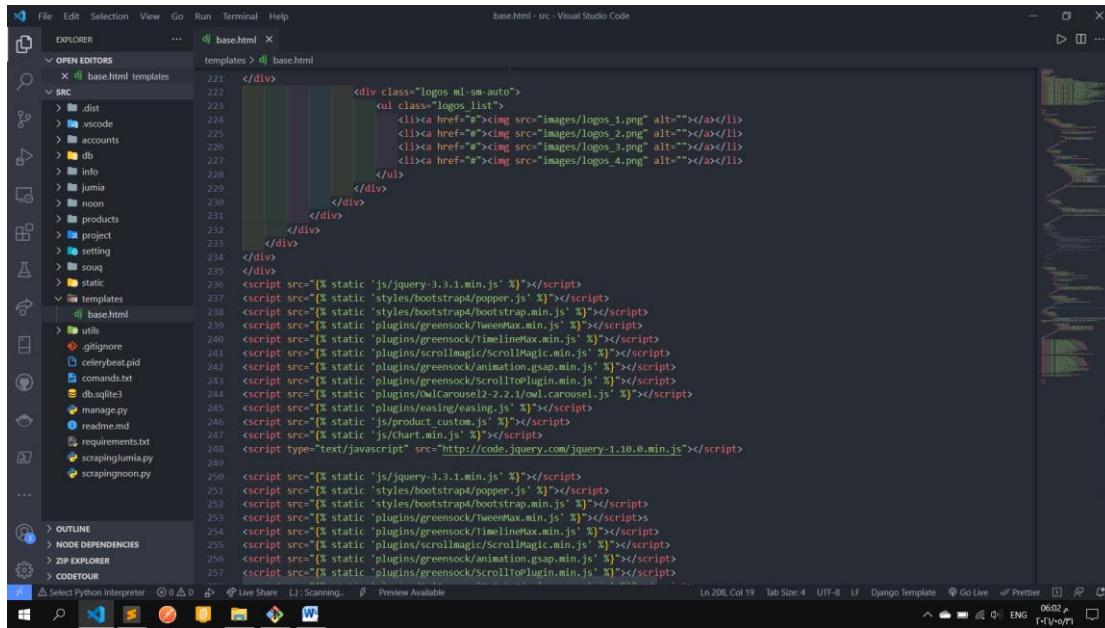
<div class="col-lg-2 footer_col">
    <div class="footer_column footer_contact">
        <div class="logo_container">
            <div class="logo"><a href="/">{{footer.name}}</a></div>
        </div>
        <!-- <div class="footer_title">Find it Fast</div> -->
        <!-- <div class="footer_phone">{{footer.phone_number}}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

```

```

<li><a href="{{footer.fb_link}}><i class="fab fa-facebook-f"></i></a></li>
<li><a href="{{footer.twitter_link}}><i class="fab fa-twitter"></i></a></li>
</ul>
</div>
</div>
</div>
<div class="copyright">
    <div class="container">
        <div class="row">
            <div class="col">
                <div class="copyright_container d-flex-sm-row flex-column align-items-center justify-content-start">
                    <div class="copyright_content">!-- Link back to colorlib can't be removed. Template is licensed under CC BY 3.0. -->
                    Copyright ©<script>document.write(new Date().getFullYear())</script> All rights reserved </div>
                    <!-- Link back to colorlib can't be removed. Template is licensed under CC BY 3.0. -->
                </div>
            </div>
        </div>
    </div>
    <div class="logos ml-sm-auto">
        <ul class="logos_list">
            <li><a href="#"></a></li>
            <li><a href="#"></a></li>
            <li><a href="#"></a></li>
        </ul>
    </div>

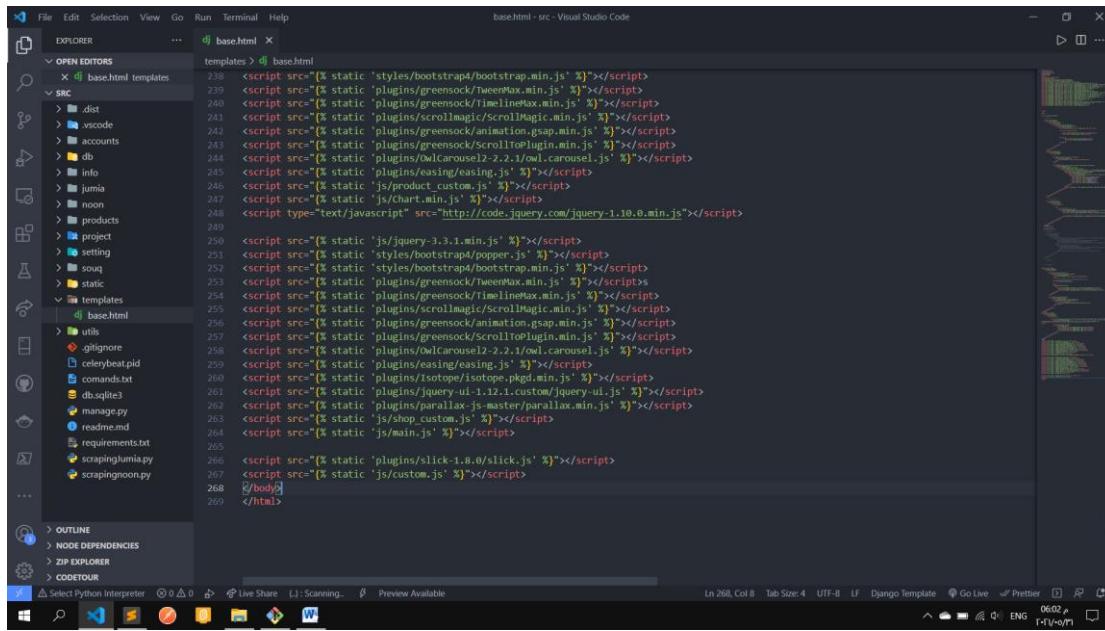
```



```

221 </div>
222 <div class="logos ml-sm-auto">
223   <ul class="logos_list">
224     <li><a href="#"></a></li>
225     <li><a href="#"></a></li>
226     <li><a href="#"></a></li>
227     <li><a href="#"></a></li>
228   </ul>
229 </div>
230 </div>
231 </div>
232 </div>
233 </div>
234 <script src="{% static 'js/jquery-3.3.1.min.js' %}"></script>
235 <script src="{% static 'styles/bootstrap4/popper.js' %}"></script>
236 <script src="{% static 'styles/bootstrap4/bootstrap.min.js' %}"></script>
237 <script src="{% static 'plugins/greensock/TweenMax.min.js' %}"></script>
238 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
239 <script src="{% static 'plugins/greensock/scrollMagic/scrollMagic.min.js' %}"></script>
240 <script src="{% static 'plugins/greensock/scrollToPlugin.min.js' %}"></script>
241 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
242 <script src="{% static 'plugins/greensock/scrollToPlugin.min.js' %}"></script>
243 <script src="{% static 'plugins/owlcarousel2-2.2.1/owl.carousel.js' %}"></script>
244 <script src="{% static 'plugins/easing/easing.js' %}"></script>
245 <script src="{% static 'js/product_custom.js' %}"></script>
246 <script src="{% static 'js/chart.min.js' %}"></script>
247 <script type="text/javascript" src="http://code.jquery.com/jquery-1.10.0.min.js"></script>
248
249 <script src="{% static 'js/jquery-3.3.1.min.js' %}"></script>
250 <script src="{% static 'styles/bootstrap4/popper.js' %}"></script>
251 <script src="{% static 'styles/bootstrap4/bootstrap.min.js' %}"></script>
252 <script src="{% static 'plugins/greensock/TweenMax.min.js' %}"></script>
253 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
254 <script src="{% static 'plugins/greensock/scrollMagic/scrollMagic.min.js' %}"></script>
255 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
256 <script src="{% static 'plugins/owlcarousel2-2.2.1/owl.carousel.js' %}"></script>
257 <script src="{% static 'plugins/easing/easing.js' %}"></script>
258
259 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
260
261 <script src="{% static 'js/jquery-3.3.1.min.js' %}"></script>
262 <script src="{% static 'styles/bootstrap4/popper.js' %}"></script>
263 <script src="{% static 'styles/bootstrap4/bootstrap.min.js' %}"></script>
264 <script src="{% static 'plugins/greensock/TweenMax.min.js' %}"></script>
265 <script src="{% static 'plugins/greensock/scrollMagic/scrollMagic.min.js' %}"></script>
266 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
267 <script src="{% static 'plugins/owlcarousel2-2.2.1/owl.carousel.js' %}"></script>
268 <script src="{% static 'plugins/easing/easing.js' %}"></script>
269 </body>
270 </html>

```



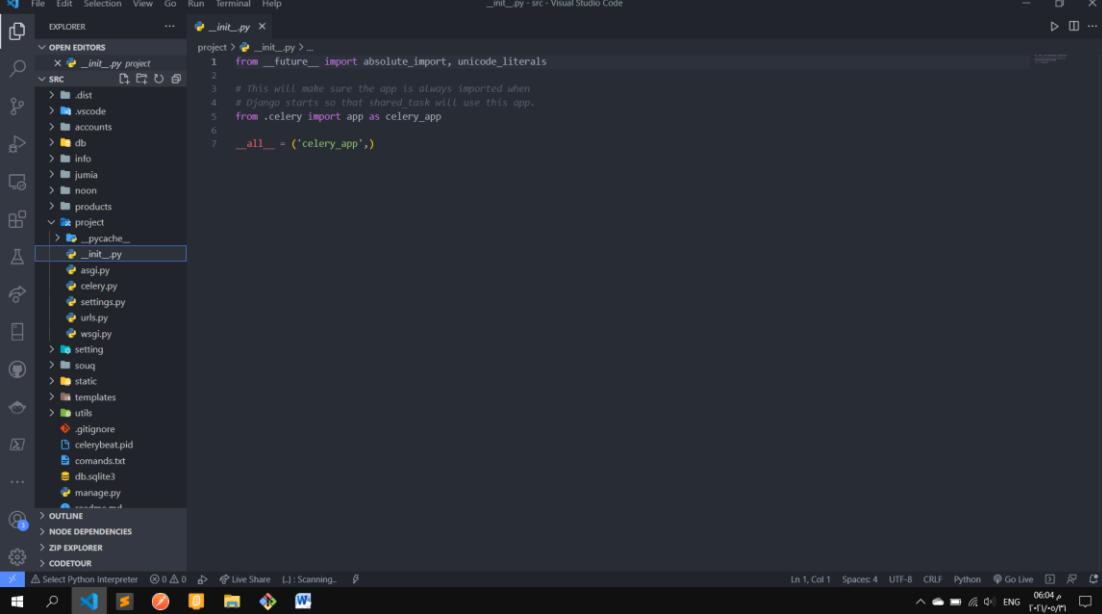
```

238 <script src="{% static 'styles/bootstrap4/bootstrap.min.js' %}"></script>
239 <script src="{% static 'plugins/greensock/TweenMax.min.js' %}"></script>
240 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
241 <script src="{% static 'plugins/greensock/scrollMagic/scrollMagic.min.js' %}"></script>
242 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
243 <script src="{% static 'plugins/greensock/scrollToPlugin.min.js' %}"></script>
244 <script src="{% static 'plugins/owlcarousel2-2.2.1/owl.carousel.js' %}"></script>
245 <script src="{% static 'plugins/easing/easing.js' %}"></script>
246 <script src="{% static 'js/product_custom.js' %}"></script>
247 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
248
249 <script src="{% static 'js/jquery-3.3.1.min.js' %}"></script>
250 <script src="{% static 'styles/bootstrap4/popper.js' %}"></script>
251 <script src="{% static 'styles/bootstrap4/bootstrap.min.js' %}"></script>
252 <script src="{% static 'plugins/greensock/TweenMax.min.js' %}"></script>
253 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
254 <script src="{% static 'plugins/greensock/scrollMagic/scrollMagic.min.js' %}"></script>
255 <script src="{% static 'plugins/greensock/animation.gsap.min.js' %}"></script>
256 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
257 <script src="{% static 'js/jquery-3.3.1.min.js' %}"></script>
258 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
259 <script src="{% static 'plugins/greensock/scrollToPlugin.min.js' %}"></script>
260 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
261 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
262 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
263 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
264 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
265 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
266 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
267 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
268 <script src="https://code.jquery.com/jquery-1.10.0.min.js"></script>
269 </body>
270 </html>

```

Project:

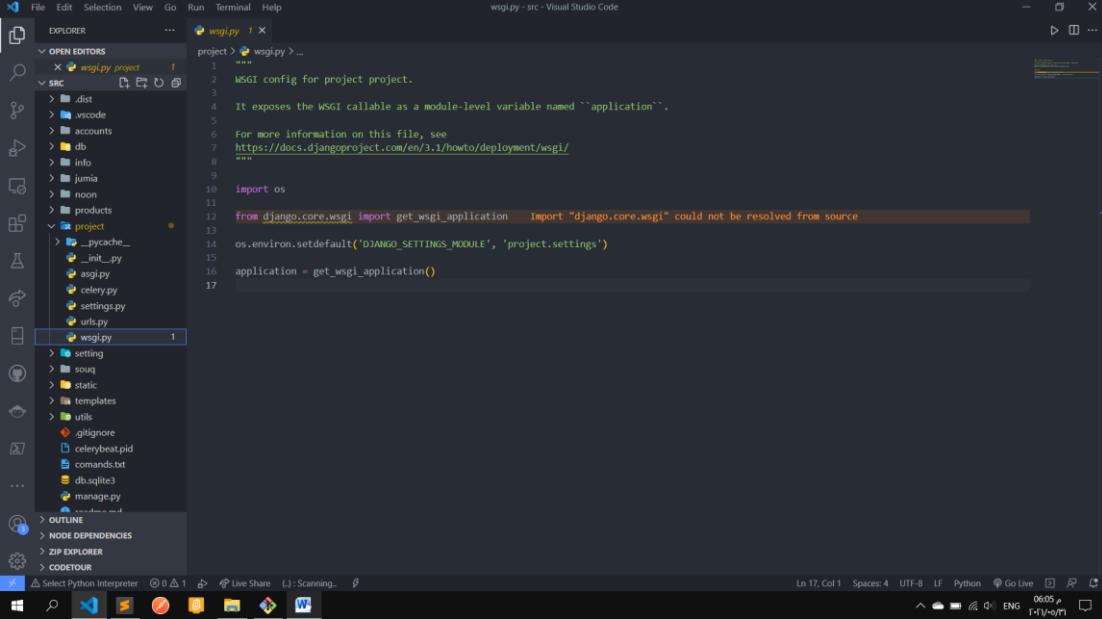
1. __init__.py



```
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 tree on the left. The file `__init__.py` is selected in the tree. The code editor shows the contents of the `__init__.py` file, which imports `absolute_import` and `unicode_literals` from `__future__`. It then defines a `celery_app` variable from the `celery` module and sets the `__all__` variable to contain the string `'celery_app'`.

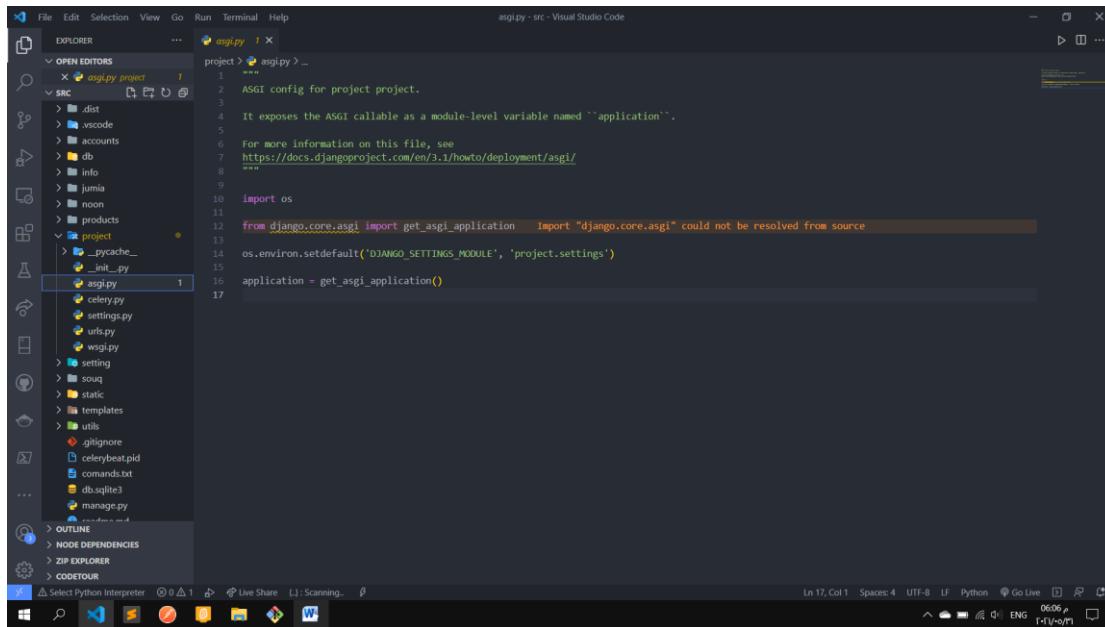
2. wsgi.py



```
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 tree on the left. The file `wsgi.py` is selected in the tree. The code editor shows the contents of the `wsgi.py` file, which contains a docstring and imports `get_wsgi_application` from `django.core.wsgi`. It then sets the `DJANGO_SETTINGS_MODULE` environment variable to `'project.settings'` and creates a `application` variable by calling `get_wsgi_application()`.

3. asgi.py



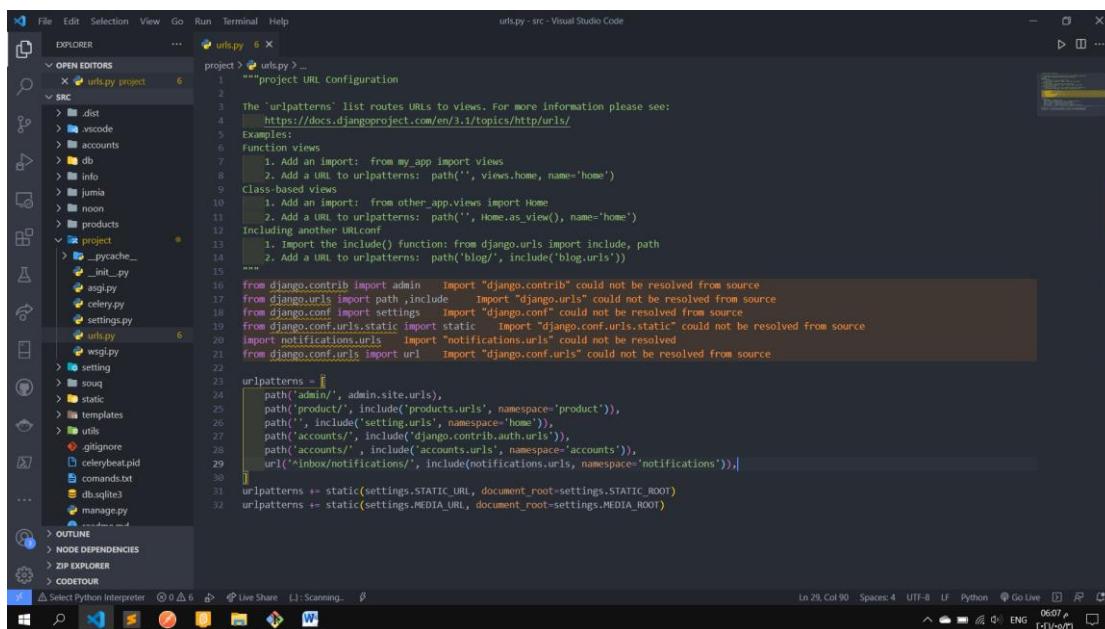
The screenshot shows the Visual Studio Code interface with the file `asgi.py` open in the editor. The code defines an ASGI callable named `application` by importing it from `django.core.asgi`. It also sets the environment variable `DJANGO_SETTINGS_MODULE` to `'project.settings'`.

```

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

```

4.Urls



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

```

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

```

5. Celery

```

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

```

File Explorer showing project structure:

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

6. Settings

```

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

```

File Explorer showing project structure:

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

The screenshot shows the Visual Studio Code interface with the 'settings.py' file open in the editor. The code defines several Django settings:

```

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'souq',
    'products',
    'jumia',
    'noon',
    'bootstrap4',
    'django_filters',
    'chartjs',
    'setting',
    'mathfilters',
    'accounts',
    'notifications',
    'django_celery_beat',
]

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'project.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': ['templates'],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
                'utils.get_context_processor.get_footer'
            ],
        },
    },
]

```

The screenshot shows the Visual Studio Code interface with the 'settings.py' file open in the editor. The code defines several Django settings, with the 'TEMPLATES' section highlighted:

```

ROOT_URLCONF = 'project.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': ['templates'],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
                'utils.get_context_processor.get_footer'
            ],
        },
    },
]

WSGI_APPLICATION = 'project.wsgi.application'

LOGOUT_REDIRECT_URL = "/"

# Database
# https://docs.djangoproject.com/en/3.1/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.postgresql_psycopg2',
        'NAME': 'ASCO',
        'USER': 'postgres',
        'PASSWORD': 'dama20499',
        'HOST': '127.0.0.1',
        'PORT': '5432'
    }
}

```

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:** settings.py - src - Visual Studio Code
- Sidebar (EXPLORER):** Shows the project structure:
 - settings.py_project
 - SRC
 - __init__.py
 - accounts
 - db
 - info
 - jumia
 - noon
 - products
 - project
 - __pycache__
 - __init__.py
 - asgi.py
 - celery.py
 - settings.py
 - celerybeat.pid
 - commands.txt
 - db.sqlite3
 - manage.py
 - random-mt
 - setting
 - souq
 - static
 - templates
 - utils
 - utils
 - ignore
 - EMAIL_BACKEND = 'django.core.mail.backends.smtp.EmailBackend'
 - EMAIL_HOST = 'smtp.gmail.com'
 - EMAIL_HOST_USER = 'djbacco@gmail.com'
 - EMAIL_HOST_PASSWORD = 'sbzzdgakmytysw'
 - EMAIL_USE_TLS = True
 - EMAIL_PORT = 587
 - CELERY_BROKER_URL = 'redis://localhost:6379'
 - OUTLINE
 - ZIP_DEPENDENCIES
 - ZIP_EXPLORER
 - CODETOUR
- Bottom Status Bar:** Ln 1, Col 1 | Spaces: 4 | UTF-8 | LF | Python | Go Live | 0612_p | ENG | T1-V0/Y/M
- Bottom Icons:** Select Python Interpreter, 0.0.0, Live Share, Scanning.

Pg Admin:

1. Jumia

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

2. Noon

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

3. Souq

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

	id	title	manufacture	description	img	est	active	lastprice
1	19447	Soft Silicone Rubber Case Cov...	other	em ipsum is s...	https://...	272461422300	true	45000
2	19448	Atari Mario Includes Accessori...	atari	em ipsum is s...	https://...	2725610768758	true	24700
3	19450	Retro Mini TV Handheld Famili...	other	em ipsum is s...	https://...	2724675748202	true	53100
4	19451	Retro Classic Game Console ...	other	em ipsum is s...	https://...	2724615380151	true	58000
5	19452	GameSir V2X AimSwitch Gam...	gamesir	em ipsum is s...	https://...	2725610125148	true	250000
6	19453	Wooden Pattern Decal Skin C...	memoria	em ipsum is s...	https://...	2724209818676	true	19400
7	19457	Console and 2 Controller Doc...	other	em ipsum is s...	https://...	2724297837481	true	49900
8	19458	DELUXE CONSOLE Case Mat...	pdp	em ipsum is s...	https://...	272474891945	true	49900
9	19460	Silicone Cover For Playstation...	other	em ipsum is s...	https://...	2724448204447	true	6900
10	19461	For PlayStation 4 PS4 - 4 Cont...	other	em ipsum is s...	https://...	2724312757121	true	59900
11	19467	Xbox One Wireless Controller	microsoft	em ipsum is s...	https://...	2724285419125	true	70000
12	19468	Sony PlayStation 4 pro 1 TB -...	sony	em ipsum is s...	https://...	2724556199251	true	1050000
13	19469	PVP Station Light 3000	pvp	em ipsum is s...	https://...	2724541600076	true	17200
14	19470	Q6 Handheld Game Console a...	other	em ipsum is s...	https://...	2724710173448	true	19800
15	19472	Sony Playstation 4 Slim 500 G...	sony	em ipsum is s...	https://...	2724669287135	true	680000

4. Category

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

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

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: 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).

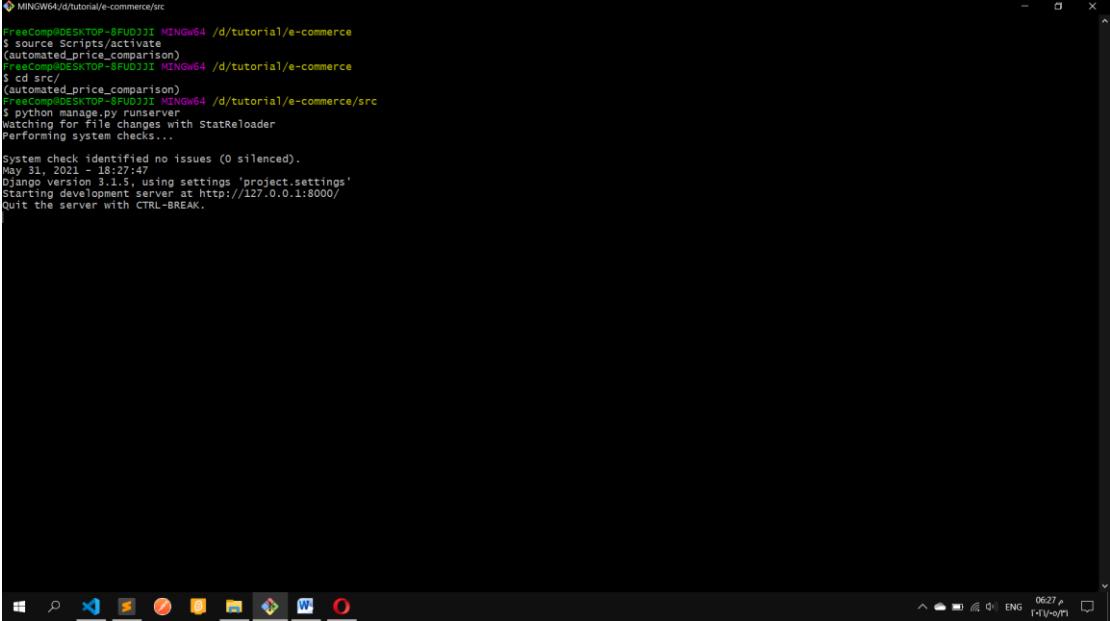
7. Periodic Tasks

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.	
price changing: every 5 seconds	<input checked="" type="checkbox"/>	every 5 seconds	-	May 31, 2021, 11:58 a.m.	
celery.backend_cleanup: 0 4 * * * (m/h/dM/MY/d) UTC	<input checked="" type="checkbox"/>	-	-	-	

8. Intervals

INTERVAL
every 5 seconds
every 5 seconds

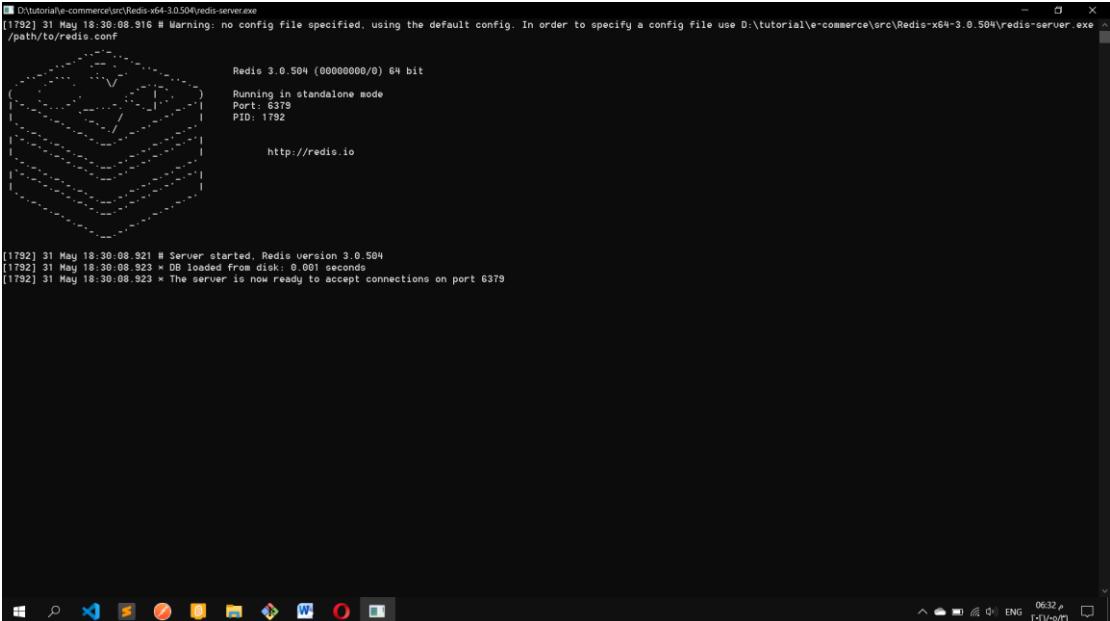
9. Local Server



```
MINGW64:/d/tutorial/e-commerce/src
$ source Scripts/activate
(django) MINGW64:/d/tutorial/e-commerce
$ cd src/
(django) MINGW64:/d/tutorial/e-commerce/src
$ 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 several windows open:

- File Explorer:** Shows the project structure with files like `commands.txt`, `dist`, `vscode`, `accounts`, `db`, `info`, `junit`, `noon`, `products`, `project`, `Redis-x64-3.0.504`, `static`, `templates`, `utils`, `.gitignore`, `celerybeat.pid`, `commands.txt`, `db.sqlite3`, `manage.py`, `readme.md`, `requirements.txt`, `scrapingjunit.py`, and `scrapingnoon.py`.
- Terminal:** Displays the command `flower -A project --port=5555` being run, followed by Celery inspection logs. The logs show tasks like `celery_group`, `celery_map`, `celery_stamp`, and `priceChanged` being inspected.
- Output:** Shows the output of the `flower` command, including connection details to Redis and inspection results.
- Terminal (Windows PowerShell):** Shows the command `celery -A project beat -l INFO --scheduler django_celery_beat.schedulers:DatabaseScheduler` being run. It outputs logs related to the celery beat process starting and checking for existing pid files.
- Comments:** A small pane showing the copyright notice for Microsoft Corporation.
- Bottom Status Bar:** Shows the current file is `commands.txt`, the line number is 5, the column number is 41, and the selected range is 40 characters long. It also shows the encoding is UTF-8, the file type is Plain Text, and the status bar includes icons for battery, signal, and language (ENG).