

Topic: Car Listing: Login Using Google Part 14A

Speaker: Udemy Instructor Rathan Kumar / Notebook: Django Project: Car Listing

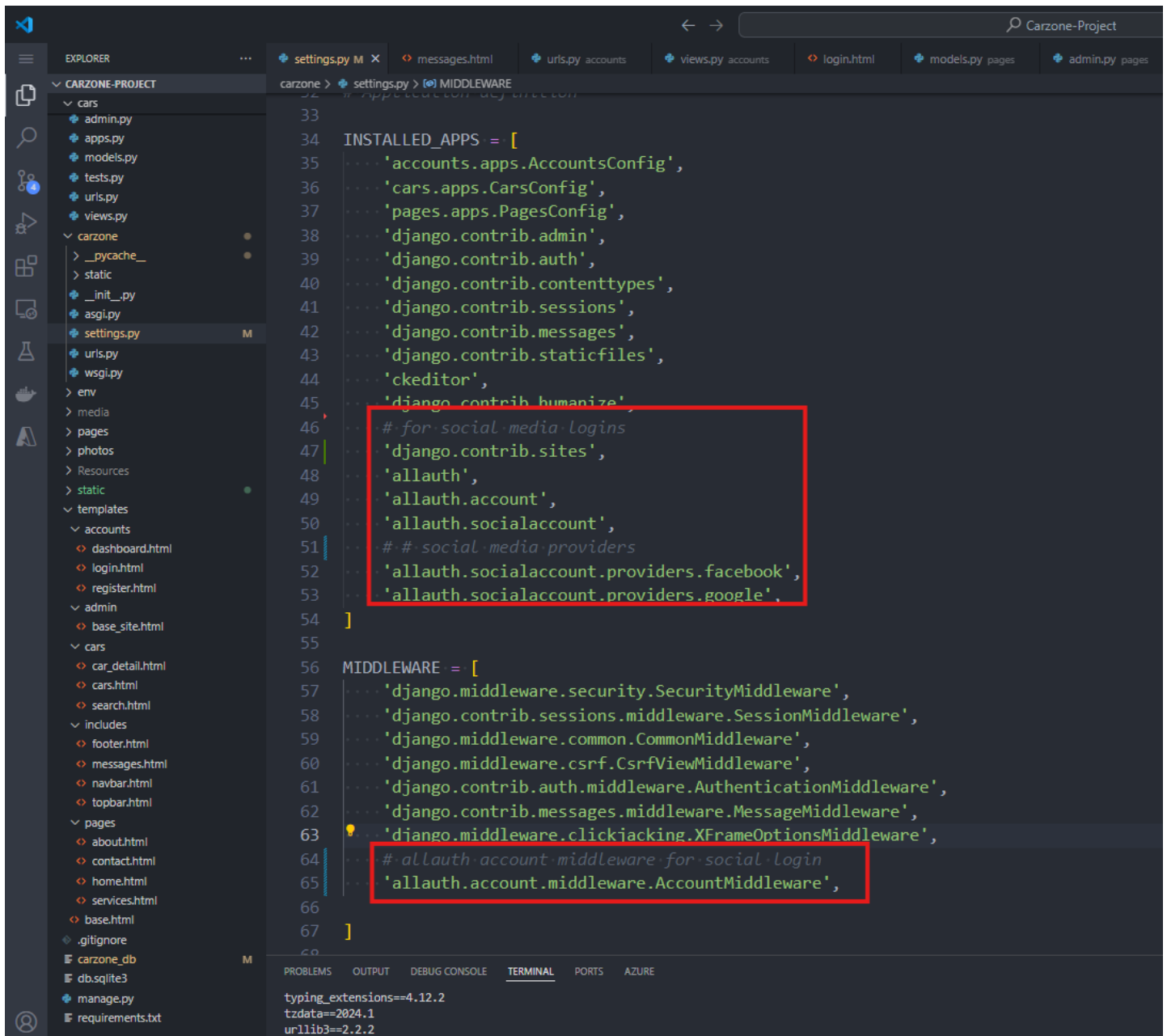


[Reference: Youtube video](#)

1. To use the social media for login, we have to install a new package, DJANGO-ALLAUTH. So, in the virtual environment terminal, we type.

```
$ pip install django-allauth
```

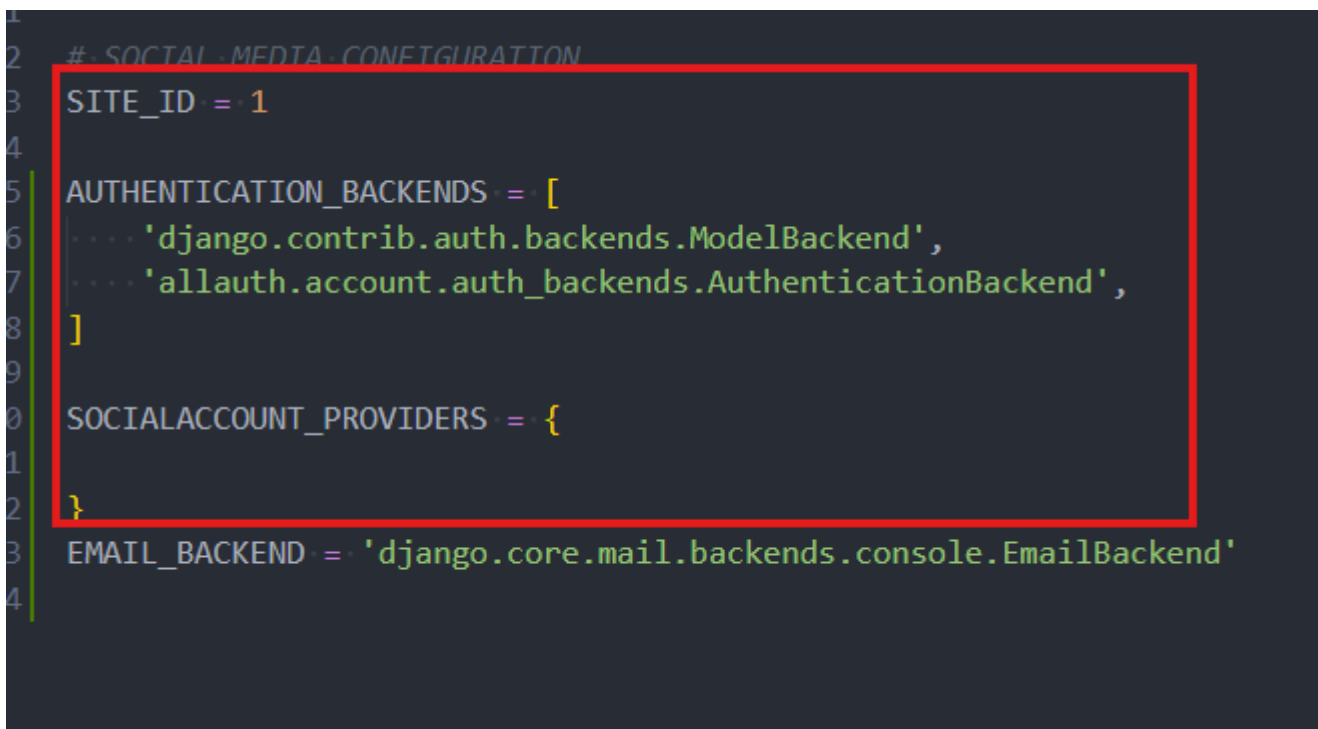
2. In the CARZONE\SETTINGS.PY, we have to add the new app in the INSTALLED_APPS.



```
33
34 INSTALLED_APPS = [
35     'accounts.apps.AccountsConfig',
36     'cars.apps.CarsConfig',
37     'pages.apps.PagesConfig',
38     'django.contrib.admin',
39     'django.contrib.auth',
40     'django.contrib.contenttypes',
41     'django.contrib.sessions',
42     'django.contrib.messages',
43     'django.contrib.staticfiles',
44     'ckeditor',
45     'django.contrib.humanize',
46     # for social media logins
47     'django.contrib.sites',
48     'allauth',
49     'allauth.account',
50     'allauth.socialaccount',
51     # social media providers
52     'allauth.socialaccount.providers.facebook',
53     'allauth.socialaccount.providers.google',
54 ]
55
56 MIDDLEWARE = [
57     'django.middleware.security.SecurityMiddleware',
58     'django.contrib.sessions.middleware.SessionMiddleware',
59     'django.middleware.common.CommonMiddleware',
60     'django.middleware.csrf.CsrfViewMiddleware',
61     'django.contrib.auth.middleware.AuthenticationMiddleware',
62     'django.contrib.messages.middleware.MessageMiddleware',
63     'django.middleware.clickjacking.XFrameOptionsMiddleware',
64     # allauth account middleware for social login
65     'allauth.account.middleware.AccountMiddleware',
66 ]
67
```

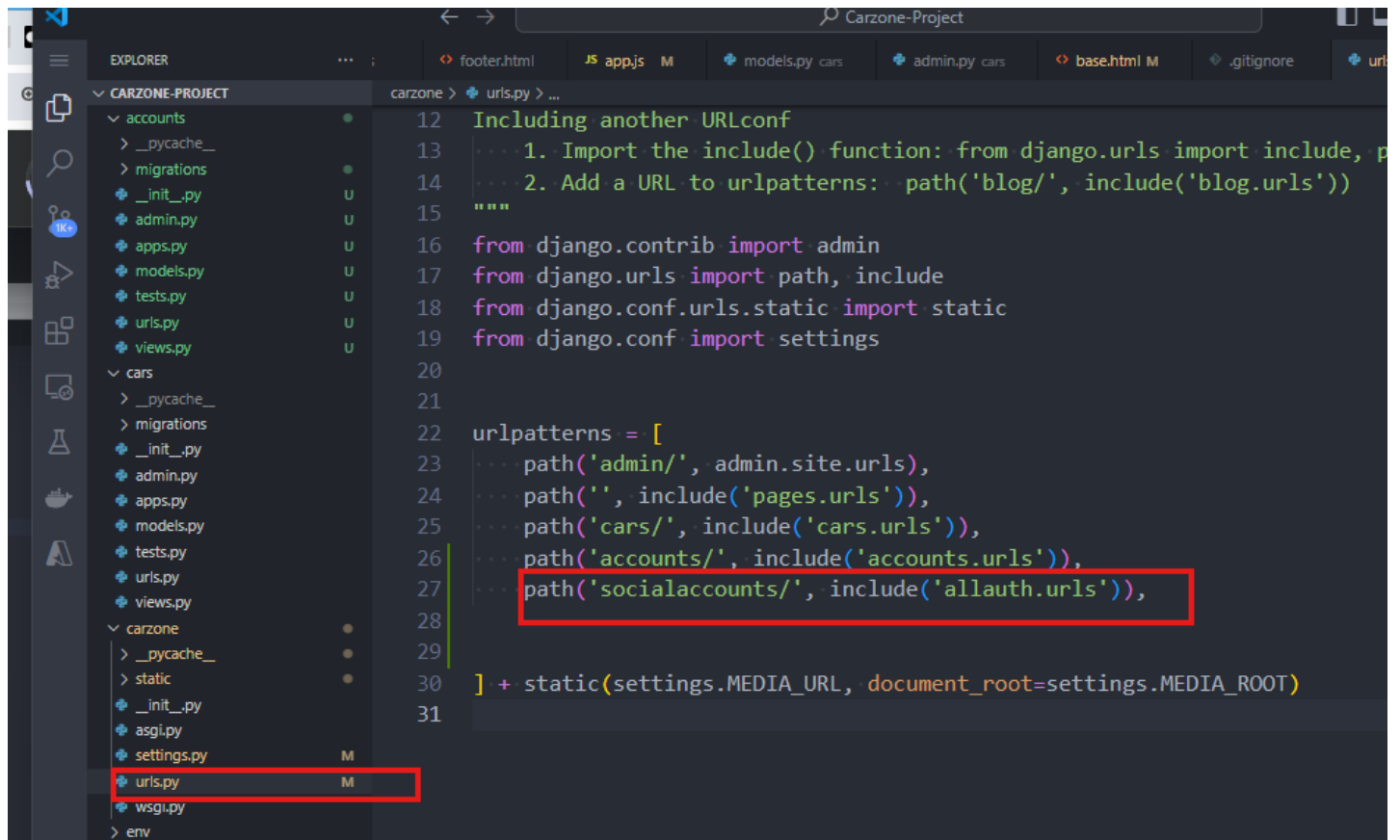
typing_extensions==4.12.2
tzdata==2024.1
urllib3==2.2.2

3. Still in the SETTINGS.PY, we add



```
1
2 # SOCIAL MEDIA CONFIGURATION
3 SITE_ID = 1
4
5 AUTHENTICATION_BACKENDS = [
6     'django.contrib.auth.backends.ModelBackend',
7     'allauth.account.auth_backends.AuthenticationBackend',
8 ]
9
10 SOCIALACCOUNT_PROVIDERS = {
11 }
12
13 EMAIL_BACKEND = 'django.core.mail.backends.console.EmailBackend'
```

4..in the CARZONEURLS.PY, create a new path for the social media links.

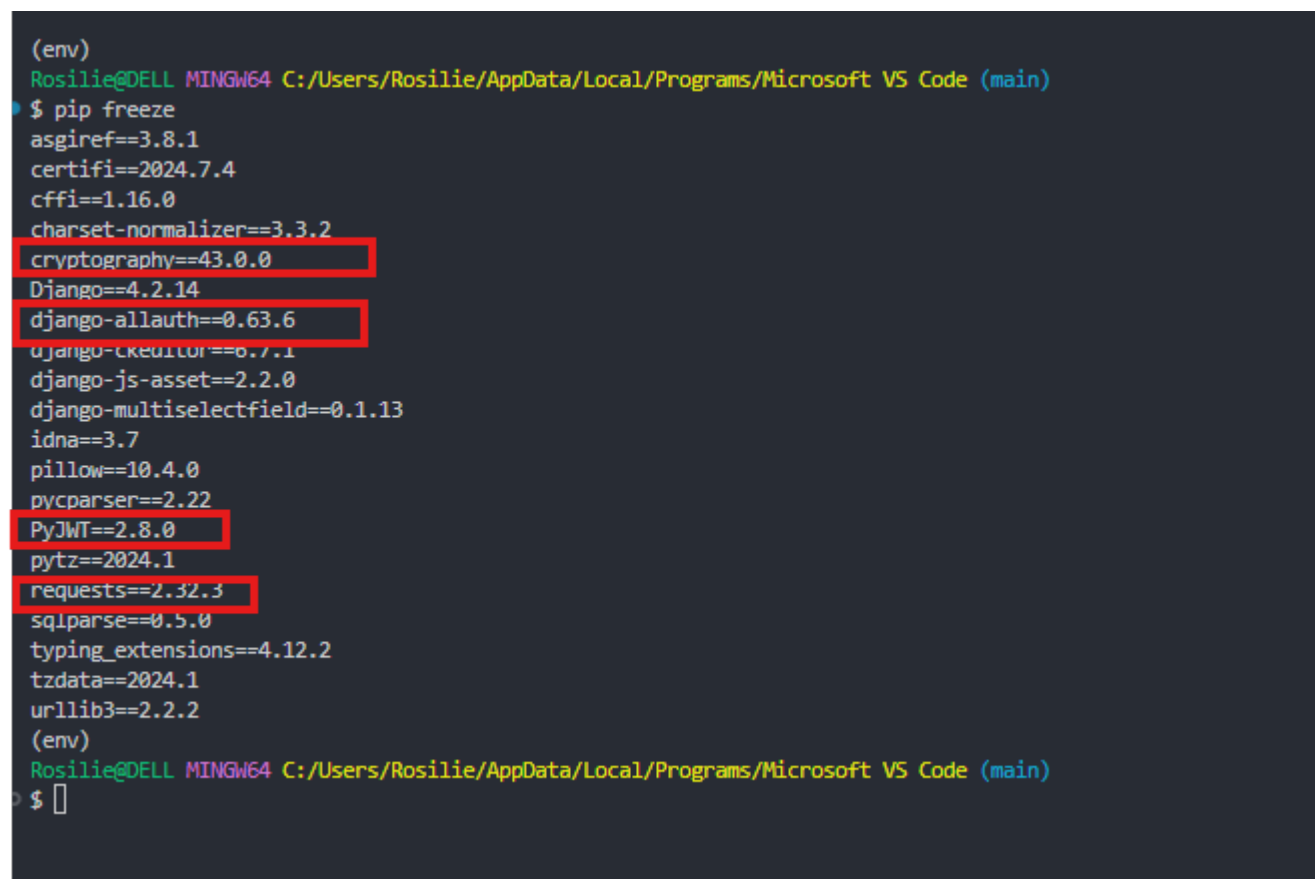


The screenshot shows the Visual Studio Code editor with the 'Carzone-Project' open. The Explorer sidebar on the left shows the project structure, with 'urls.py' highlighted under the 'carzone' directory. The main editor window displays the content of 'urls.py'. The file includes imports for Django's URL handling and a list of URL patterns. A new path, 'socialaccounts/', is added to the 'urlpatterns' list, including 'allauth.urls'. The file also includes a static media URL configuration.

```
12 Including another URLconf
13 ... 1. Import the include() function: from django.urls import include, path
14 ... 2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
15 """
16 from django.contrib import admin
17 from django.urls import path, include
18 from django.conf.urls.static import static
19 from django.conf import settings
20
21
22 urlpatterns = [
23     path('admin/', admin.site.urls),
24     path('', include('pages.urls')),
25     path('cars/', include('cars.urls')),
26     path('accounts/', include('accounts.urls')),
27     path('socialaccounts/', include('allauth.urls')),
28
29 ] + static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
30
31
```

5, Run the migrations code. You have encountered errors for allauth.account.middleware.AccountMiddleware, REQUESTS, JWT, and cryptography.

6. You have added the ACCOUNTMIDDLEWARE in middleware and PIP INSTALL each the modules, REQUEST, PYJWT AND CRYPTOGRAPHY.



The screenshot shows a terminal window with the command 'pip freeze' executed. The output lists various installed packages and their versions. Several packages are highlighted with red boxes: 'cryptography==43.0.0', 'django-allauth==0.63.6', 'PyJWT==2.8.0', and 'requests==2.32.3'. The terminal prompt is 'Rosilie@DELL MINGW64 C:/Users/Rosilie/AppData/Local/Programs/Microsoft VS Code (main)'.

```
(env)
Rosilie@DELL MINGW64 C:/Users/Rosilie/AppData/Local/Programs/Microsoft VS Code (main)
$ pip freeze
asgiref==3.8.1
certifi==2024.7.4
cffi==1.16.0
charset-normalizer==3.3.2
cryptography==43.0.0
Django==4.2.14
django-allauth==0.63.6
django-ckeditor==6.7.1
django-js-asset==2.2.0
django-multiselectfield==0.1.13
idna==3.7
pillow==10.4.0
pycparser==2.22
PyJWT==2.8.0
pytz==2024.1
requests==2.32.3
sqlparse==0.5.0
typing_extensions==4.12.2
tzdata==2024.1
urllib3==2.2.2
(env)
Rosilie@DELL MINGW64 C:/Users/Rosilie/AppData/Local/Programs/Microsoft VS Code (main)
$
```

7. Now when you run PYTHON MANAGE.PY MIGRATE, it should not show any error and so does running your server.

WE CHANGE EXAMPLE.COM FROM THE SITES TAB TO LOCALHOST:8000:

The screenshot shows the Drupal 8 administration interface. The left sidebar contains a menu with categories: ACCOUNTS, AUTHENTICATION AND AUTHORIZATION, CARS, PAGES, SITES, and SOCIAL ACCOUNTS. The 'SITES' category is highlighted, and the 'Sites' link is selected. The main content area shows the 'Change site' form for 'example.com'. The form is highlighted with a red border. Below the form are buttons for 'SAVE', 'Save and add another', and 'Save and continue editing'.

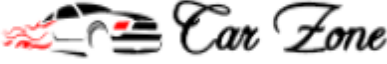
8. For Google Login, add the CLIENT ID and the SECRET KEY that you should get from <https://console.developers.google.com/>

←

→

↻

http://127.0.0.1:8000/admin/socialaccount/socialapp/add/



Home > Social Accounts > Social applications > Add social application

Start typing to filter...

ACCOUNTS

Email addresses

+ Add

AUTHENTICATION AND AUTHORIZATION

Groups

+ Add

Users

+ Add

CARS

Cars

+ Add

PAGES

Teams

+ Add

SITES

Sites

+ Add

SOCIAL ACCOUNTS

Social accounts

+ Add

Social application tokens

+ Add

Social applications

+ Add

Add social application

Provider:

Google ▾

Provider ID:

Name:

Client id:

App ID, or consumer key

Secret key:

API secret, client secret, or consumer secret

Key:

Key

Settings:

Sites:


Available sites ⓘ

Filter

example.com

Create a NEW PROJECT like Car Listing. Then in the APIs & Services, click on OAuth Consent Screen

← → ↻ <https://console.cloud.google.com/apis/dashboard?project=car-listing-430>


 Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

☰ Google Cloud Car Listing ▼

API APIs & Services 📌 APIs & Services + ENABLE APIS AND S

- ⚙️ Enabled APIs & services
- 📖 Library
- 🔑 Credentials
- 🔗 OAuth consent screen**
- ⚙️ Page usage agreements

Traffic

 No data is available for the selected time range

UTC-5 Jul 22 6:00 AM

≡ Filter Filter

Name	↓ Requests
Analytics Hub API	
BigQuery API	

9. In the OAuth Consent Screen, select EXTERNAL and CREATE.

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

Google Cloud Car Listing Search (/) for

API APIs & Services OAuth consent screen

- Enabled APIs & services
- Library
- Credentials
- OAuth consent screen**
- Page usage agreements

Choose how you want to configure and register your app, including your target users. You can only associate one app with your project.

User Type

☐ Internal ?

Only available to users within your organization. You will not need to submit your app for verification. [Learn more about user type](#)

☒ External ?

Available to any test user with a Google Account. Your app will start in testing mode and will only be available to users you add to the list of test users. Once your app is ready to push to production, you may need to verify your app. [Learn more about user type](#)

[CREATE](#)

[Let us know what you think](#) about our OAuth experience

10. Fill in the required fields and SAVE.

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

APIs & Services

Edit app registration

- Enabled APIs & services
- Library
- Credentials
- OAuth consent screen
- Page usage agreements

- 1 OAuth consent screen — 2 Scopes — 3 Test users — 4 Summary

App information

This shows in the consent screen, and helps end users know who you are and contact you

App name *

Carzone Listing

The name of the app asking for consent

User support email *

rnldvsolutions@gmail.com

For users to contact you with questions about their consent. [Learn more](#)

App logo

This is your logo. It helps people recognize your app and is displayed on the OAuth consent screen.

After you upload a logo, you will need to submit your app for verification unless the app is configured for internal use only or has a publishing status of "Testing". [Learn more](#)

Logo file to upload

BROWSE

11. Then to create the Client ID and SECRET KEY, click on CREATE CREDENTIALS and select OAuth Client ID.

← → ↻ <https://console.cloud.google.com/apis/credentials?project=car-listing-430220>

Google Cloud Car Listing Search (/) for resources

API APIs & Services + **Credentials** + CREATE CREDENTIALS DELETE RESTORE DELETED CREDENTIALS

Enabled APIs & services
Library
Credentials
OAuth consent screen
Page usage agreements

Create credentials to access your project

API Keys

☐ Name No API keys to display

OAuth 2.0 Client IDs

☐ Name Creation date ↓ No OAuth clients to display

Service Accounts

☐ Email No service accounts to display

Dropdown Menu:

- API key
Identifies your project using a simple API key to check quota and access
- OAuth client ID**
Requests user consent so your app can access the user's data
- Service account
Enables server-to-server, app-level authentication using robot accounts
- Help me choose
Asks a few questions to help you decide which type of credential to use

12. Next select WEB APPLICATIONS and fill in required fields. Take note of the REDIRECT path as this is the same in our URLS.PY.

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

Google Cloud Car Listing

Search (/) for resources, docs, products, and more

APIs & Services

Enabled APIs & services

Library

Credentials

OAuth consent screen

Page usage agreements

Client ID for Web application DELETE

Name *
Carzone Listing

The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users.

The domains of the URIs you add below will be automatically added to your [OAuth consent screen](#) as [authorized domains](#).

Authorized JavaScript origins

For use with requests from a browser

URIs 1 *
http://localhost:8000

URIs 2 *
http://127.0.0.1:8000

+ ADD URI

Authorized redirect URIs

For use with requests from a web server

URIs 1 *
http://localhost:8000/socialaccounts/google/login/callback/

URIs 2 *
http://127.0.0.1:8000/socialaccounts/google/login/callback/

+ ADD URI

Note: It may take 5 minutes to a few hours for settings to take effect

SAVE CANCEL

Additional information

Client ID 50

Creation date Ju

Client secrets

If you are in the process of changing your client secret, you must wait 30 days before you can change it again.

Client secret GC

Creation date Ju

Status ✓

+ ADD SECRET

OAuth client saved

13. When you click on CREATE, this should create your Client ID and Secret Key. Add this to your Admin Panel board.

In the course, the SITES that is displayed is LOCALHOST, while in my Admin Panel, it shows EXAMPLE.COM

14. Update now the LOGIN.HTML to link to our Google Sign-in. Use this [documentation](#) how to call the social media login.

FROM:

```
<ul class="social-list">
  <li><a href="#" class="facebook-bg"><i
    class="fa fa-facebook facebook-i"></i><span>Facebook</span></a></li>
  <li><a href="#" class="google-bg"><i
    class="fa fa-google google-i"></i><span>Google</span></a></li>
</ul>
```

TO:

```

1 {% extends 'base.html' %}
2
3 {% block title %} | Login {% endblock %}
4
5 {% load socialaccount %}
6
7 {% block content %}
8 {% load static %}
9
10 <!-- Sub-Banner starts -->
11 <div class="sub-banner overview-bgi">
12     <div class="container breadcrumb-area">
13         <div class="breadcrumb-areas">
14             <h1>Login To Your Account</h1>
15             <ul class="breadcrumbs">
16                 <li><a href="{% url 'home' %}">Home</a></li>
17                 <li class="active">Login</li>
18             </ul>
19         </div>
20     </div>
21 </div>
22 <!-- Sub-Banner end -->
23

```

```

<ul class="social-list">
    <li><a href="#" class="facebook-bg"><i
        class="fa fa-facebook facebook-i"></i><span>Facebook</span></a></li>
    <li><a href="{% provider_login_url 'google' %}" class="google-bg"><i
        class="fa fa-google google-i"></i><span>Google</span></a></li>
</ul>

```

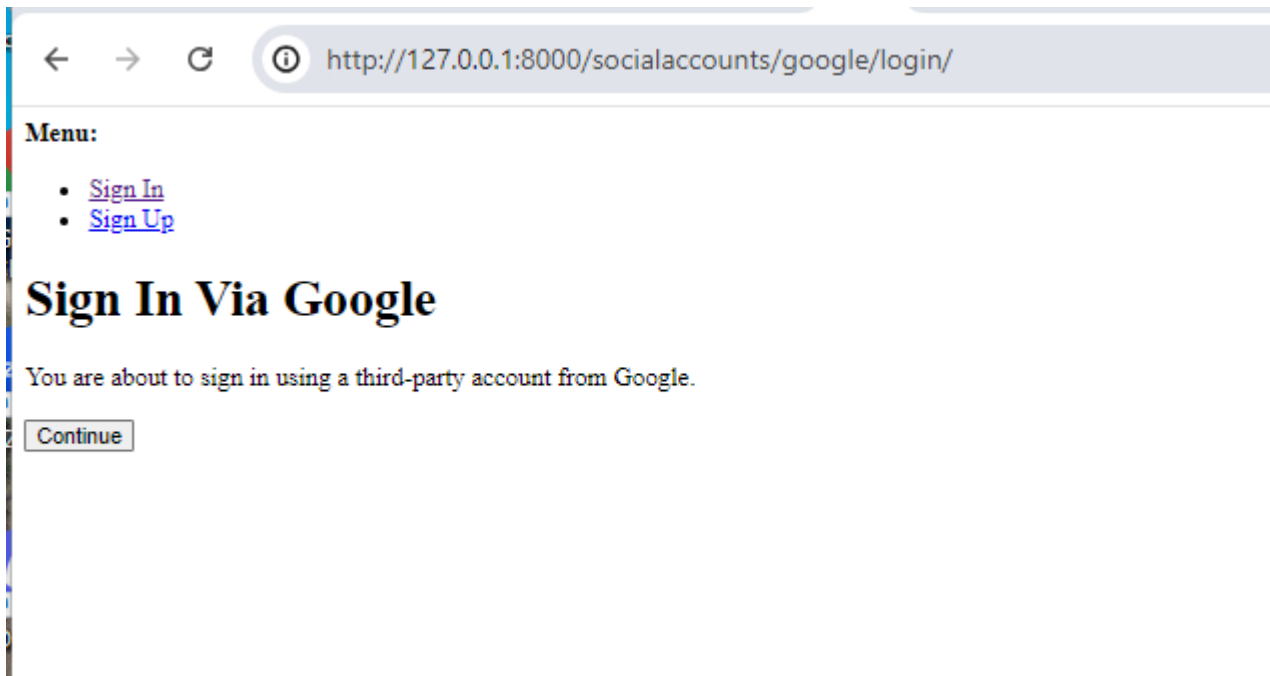
15. When you REGISTER and create a new user, it gives you an error because you have added AUTHENTICATION_BACKENDS. So you remove this and to make sure that when the user logs in using Google, it is directed to the DASHBOARD, we add this:

```

157
158 # SOCIAL MEDIA CONFIGURATION
159 SITE_ID = 1
160
161 # redirects to the dashboard after social media login
162 LOGIN_REDIRECT_URL = 'dashboard'
163 # AUTHENTICATION_BACKENDS = [
164     # ... 'django.contrib.auth.backends.ModelBackend',
165     # ... 'allauth.account.auth_backends.AuthenticationBackend',
166     # ]
167
168 SOCIALACCOUNT_PROVIDERS = {
169     #
170

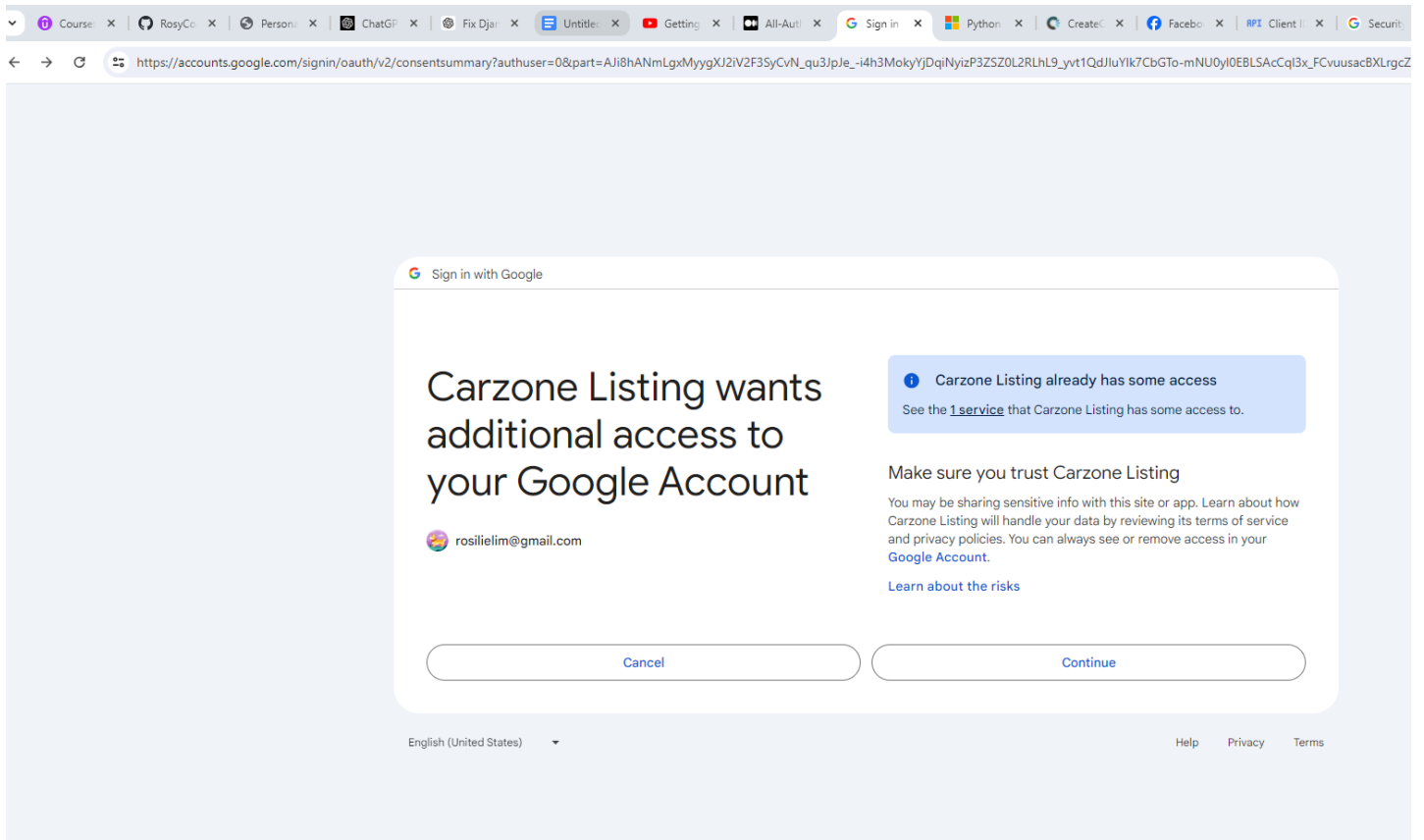
```

16. When you click on Google Sign - In, this shows. Click on CONTINUE



IF YOU WANT TO GO IMMEDIATELY TO THE SOCIAL MEDIA LOGIN PAGE, WE NEED TO ADD THIS LINE IN OUR SETTINGS.PY.

```
34 # redirects to the dashboard after verified social media login
35 LOGIN_REDIRECT_URL = 'dashboard'
36
37 # immediately redirects to the social media login page
38 SOCIALACCOUNT_LOGIN_ON_GET = True
```



17. ALSO, WHEN YOU SIGN-IN USING GOOGLE, IT CREATES A NEW ACCOUNT WITHOUT THE EMAIL YOU USED DURING REGISTRATION. So, when there is a person with an email like person@gmail.com with the name Person and when you login using Google using PERSON@GMAILCOM, it creates a new record with the the name PERSON1.

EXAMPLE: WITHOUT registering my account but I signed in using Google with my email add, rosy61625@gmail.com, it creates a new record below in the admin panel;

Courses

RosyC

Person

ChatG

Fix Dj

Untitled


Gettin

All-Au

Sign ir

Car Zc

← → ↻ http://127.0.0.1:8000/admin/auth/user/



Home > Authentication and Authorization > Users

Start typing to filter...

ACCOUNTS

Email addresses + Add

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

CARS

Cars + Add

PAGES

Teams + Add

SITES

Sites + Add

SOCIAL ACCOUNTS

Social accounts + Add

Social application tokens + Add

Social applications + Add

Select user to change

Q

Search

Action:

 Go 0 of 4 selected

<input type="checkbox"/>	USERNAME	EMAIL ADDRESS	FIRST NAME
<input type="checkbox"/>	carzone_admin	rnidevsolutions@gmail.com	Ros
<input type="checkbox"/>	rosie	rosililelim@gmail.com	Ros
<input type="checkbox"/>	rosy		Ros
<input type="checkbox"/>	tammy	tammy@gmail.com	Tam

4 users

18. YOU STILL NEED A FACEBOOK DEVELOPER ACCOUNT THAT REQUIRES CONFIRMATION. SO YOU CANT PROCEED WITH FACEBOOK LOGIN.



Rosilie, you submitted an appeal

ON JULY 22, 2024

Check back here for the result.

Your account is not visible to people on Facebook, and you can't use it.

What happens next?

- It usually takes us just over a day to review your information.
- If we find your account does follow our Community Standards, you'll be able to use Facebook again.
- If we find your account doesn't follow our Community Standards, it will be permanently disabled and you won't be able to appeal again.

19.

For LINKEDIN, go to LINKED FOR DEVELOPERS and select CREATE AN APP. However, you can't do this because it requires an organization and network connection.

For your reference, you can use this [Youtube Video](#)

Create an app



* Indicates required

App name *

Carzone Listing

LinkedIn Page *

ⓘ This action can't be undone once the app is saved.

Enter your company's name or LinkedIn Company Page URL (eg, <https://www.linkedin.com/company/...>)

For Third Party/Enterprise Developers: The LinkedIn Company Page you select will be associated with your app. Verification can be done by a Page Admin. Please note this cannot be a member profile page.

For Individual Developers: API products available to individual developers have a default Company page associated with them and you must select that default Company page to proceed.

To learn more about the products and the default Company pages, click [here](#).

[+ Create a new LinkedIn Page](#)

Privacy policy URL

Begin with http:// or https://

App logo *

This is the logo displayed to users when they authorize with your app



Upload a logo

Square image recommended. At least one dimension should be at least 100px.

Legal agreement

When you develop on our platform, you are agreeing to be bound by our [API Terms of Use](#).

☐ I have read and agree to these terms

Cancel

Create app

