

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.

The screenshot shows the VS Code editor with the Django settings.py file open. The left sidebar shows the Explorer view with the project structure. The main editor area shows the following code:

```
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
68
```

The code is annotated with red boxes highlighting the social media login configurations. The first box highlights the 'django.contrib.sites', 'allauth', 'allauth.account', and 'allauth.socialaccount' entries in the INSTALLED_APPS list. The second box highlights the 'allauth.socialaccount.providers.facebook' and 'allauth.socialaccount.providers.google' entries. The third box highlights the 'django.middleware.clickjacking.XFrameOptionsMiddleware' entry in the MIDDLEWARE list. The fourth box highlights the 'allauth.account.middleware.AccountMiddleware' entry in the MIDDLEWARE list.

3. Still in the SETTINGS.PY, we add

The screenshot shows the VS Code editor with the Django settings.py file open. The code is as follows:

```
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'
14
```

The code is annotated with a red box highlighting the social media configuration code, including the SITE_ID, AUTHENTICATION_BACKENDS, and SOCIALACCOUNT_PROVIDERS settings.

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

```
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.

```
(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
pyparser==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 a web browser window with the URL `http://127.0.0.1:8000/admin/sites/site/1/change/`. The page header features the 'Car Zone' logo and a breadcrumb trail: `Home > Sites > Sites > example.com`. On the left, a sidebar menu lists various content types: ACCOUNTS (Email addresses), AUTHENTICATION AND AUTHORIZATION (Groups, Users), CARS (Cars), PAGES (Teams), SITES (Sites), and SOCIAL ACCOUNTS (Social accounts, Social application tokens, Social applications). The 'SITES' menu item is highlighted with a red box. The main content area displays the 'Change site' form for 'example.com', which is also enclosed in a red box. The form includes two input fields: 'Domain name' and 'Display name', both containing the text 'example.com'. At the bottom of the form, there are three buttons: '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:

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 ⓘ

🔍

example.com

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

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

☰ 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 ti

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

- 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 *
rn1devsolutions@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.

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

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

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

Name
No API keys to display

OAuth 2.0 Client ID

Name
No OAuth clients to display

Creation date ↓

Service Accounts

Email
No service accounts to display

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

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/

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

SAVE CANCEL

OAuth client saved

Additional information

Client ID 50
Creation date Ju

Client secrets

If you are in the process of changing your client secret, you must create a new secret.

Client secret GC
Creation date Ju
Status ✓

[+ ADD SECRET](#)

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:

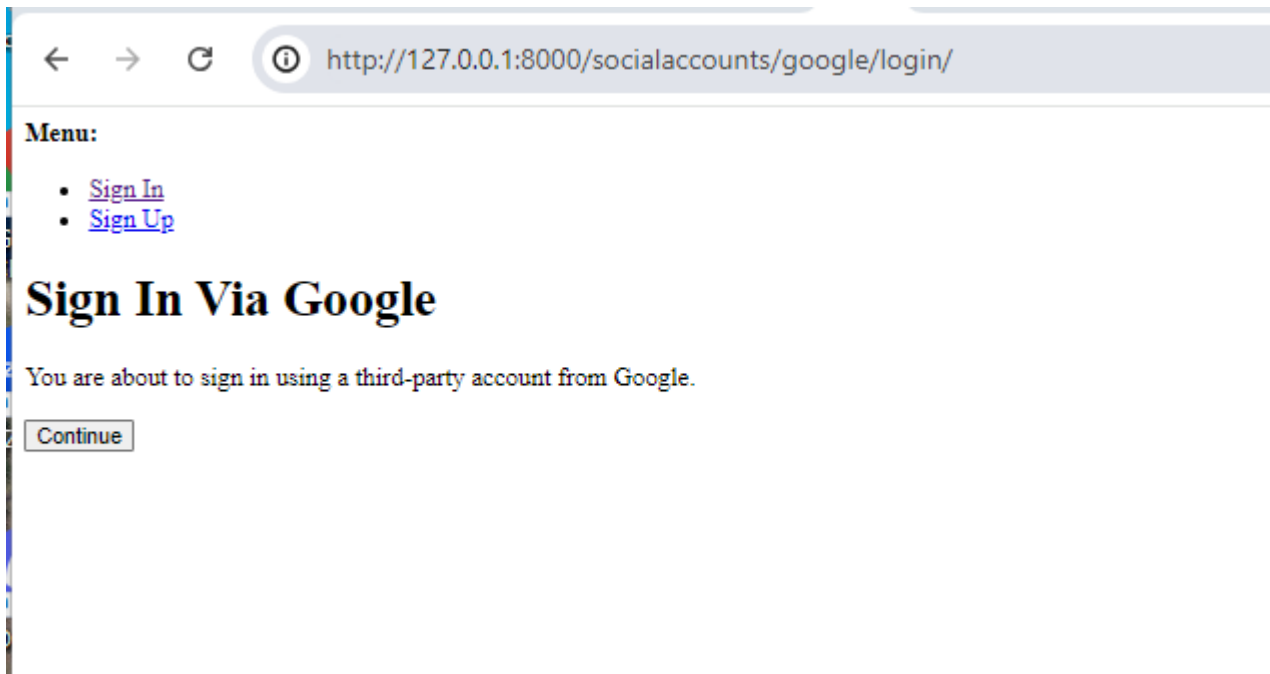
```
1 {% extends 'base.html' %}
2
3 {% block title %} | Login {% endblock %}
4
5 {% load socialaccount %}
6
7 {% block content %}
8 {% load static %}
9
10 <!-- Sub-Banner-starts -->
11 <div class="sub-banner overview-bgi">
12     <div class="container breadcrumb-area">
13         <div class="breadcrumb-areas">
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:

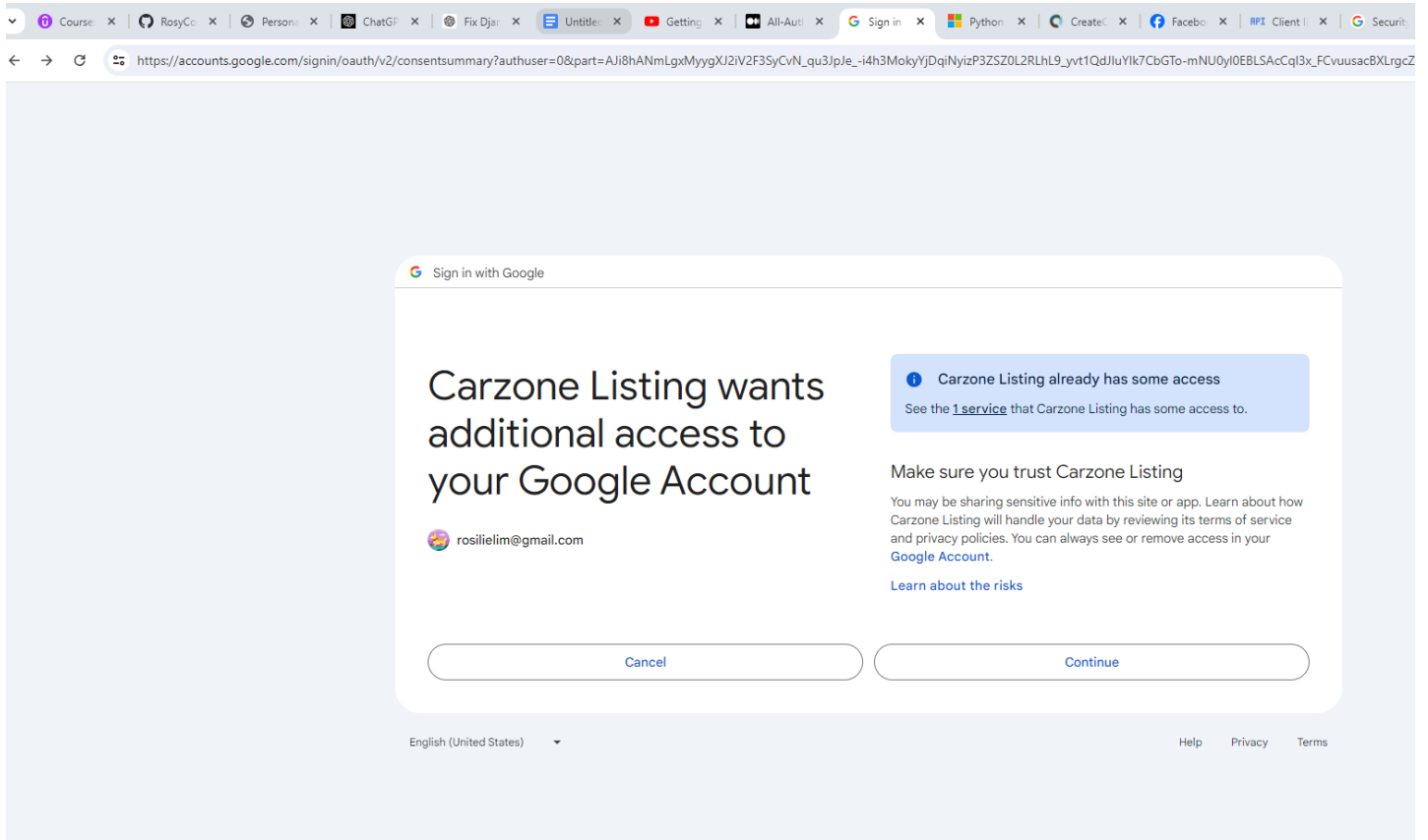
```
157
158 # SOCIAL MEDIA CONFIGURATION
159 SITE_ID = 1
160
161 # redirects to the dashboard after social media login
162 LOGIN_REDIRECT_URL = 'dashboard'
163 # AUTHENTICATION_BACKENDS = [
164 #     'django.contrib.auth.backends.ModelBackend',
165 #     'allauth.account.auth_backends.AuthenticationBackend',
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
39
```



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;

The screenshot shows a web browser window with the URL <http://127.0.0.1:8000/admin/auth/user/>. The page title is "Car Zone" and the breadcrumb is "Home > Authentication and Authorization > Users".

On the left sidebar, there are several menu items with "+ Add" buttons:

- ACCOUNTS: Email addresses
- AUTHENTICATION AND AUTHORIZATION: Groups, Users (highlighted)
- CARS: Cars
- PAGES: Teams
- SITES: Sites
- SOCIAL ACCOUNTS: Social accounts, Social application tokens, Social applications


The main content area is titled "Select user to change" and contains a search bar and an action dropdown. Below this is a table of users:

<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

The user "rosy" is highlighted with a red box. Below the table, it says "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](#)

DEVELOPERS Products Docs and tools Resources My apps

Create an app

* Indicates required

App name *


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

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

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



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

