

Topic: Car Listing: Deployment using Heroku Part 19C

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



1. After the corrections made in my SETTINGS.PY

```
2
3 from django.contrib.messages import constants as messages
4
5 import os
6 # we add this block for HEROKU deployment
7 import django_heroku
8 import dj_database_url
```

The ALLOWED_HOST is HEROKU'S provided domain name:

```
# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = False

# Customize this to add for your Heroku's default domain, and your purchased domain name
ALLOWED_HOSTS = ['lit-cliffs-98316-70180276948a.herokuapp.com', ]
```

Make sure that WHITENOISE MIDDLEWARE is above other middleware because 3rd party applications may require this. See the [documentation](#) here.

```
MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    '# for HEROKU deployment
    'whitenoise.middleware.WhiteNoiseMiddleware',
    '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',
    # allauth account middleware for social login
    'allauth.account.middleware.AccountMiddleware',
]
```

This is the DATABASE_URL after you made the second app and deleted the first one.

```
# HEROKU CREDENTIALS AND USE OF ENVIRONMENT VARIABLES PROVIDED
DATABASES = {'default': dj_database_url.config(
    default='postgres://uacp2joia9miv5:pfdb946d08413449c74196a586d2757b3a0366f1cd746406af51e9f57efd69ada@c81j070dsubs83.cluster-czrs8kj4isg7.us-east-1.rds.amazonaws.com:5432/d44bqh6timinvv')})
```

This is the STATIC FILE CONFIGURATIONS where STATIC_ROOT uses STATICFILES folder instead of the STATIC value that Rathnan uses. This is what the HEROKU documentation requires.

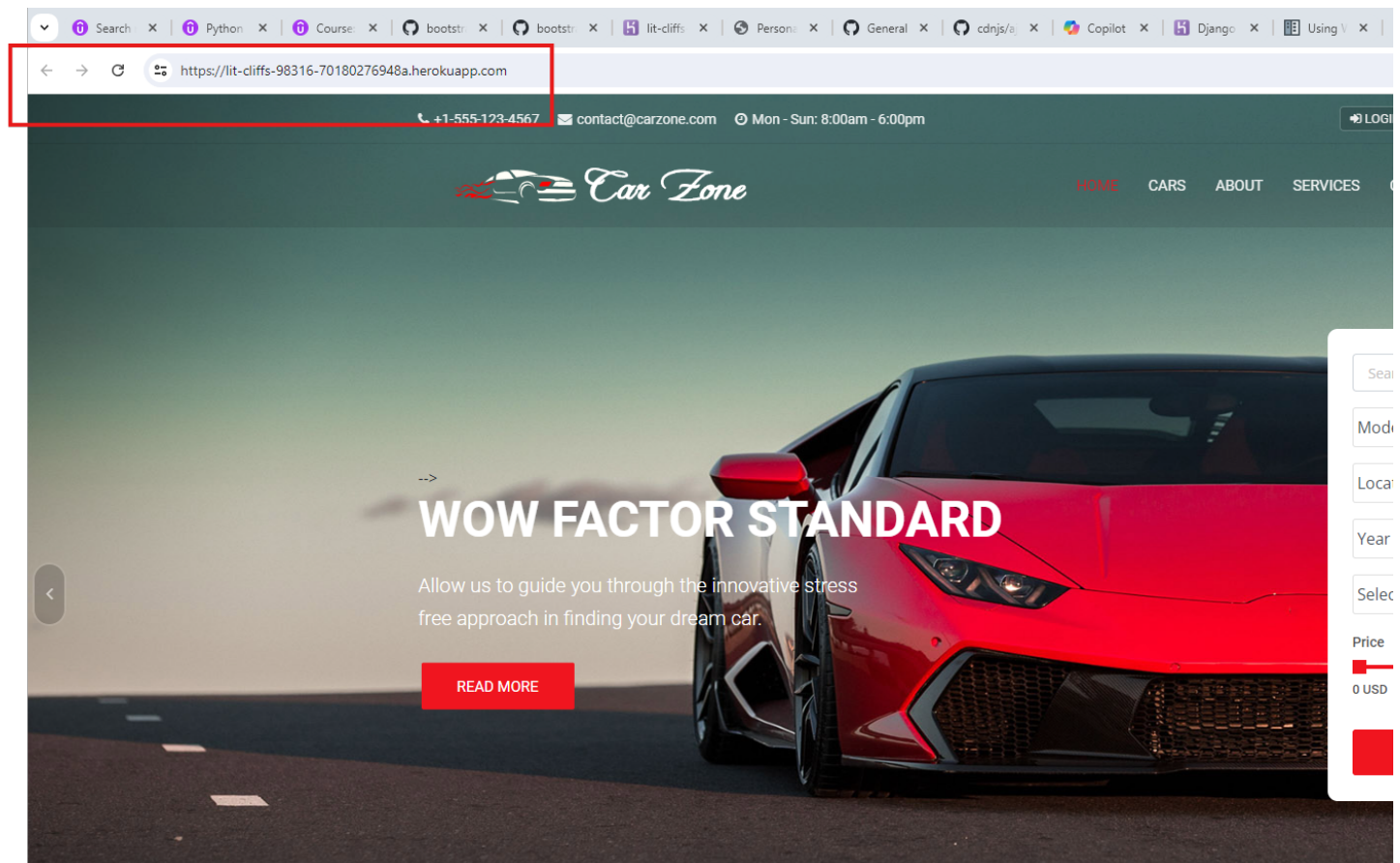
```
# STATIC FILE CONFIGURATON
STATIC_URL = '/static/'
# creates this new folder and copies all the static files TO this new folder after COLLECTSTATIC is issued
STATIC_ROOT = os.path.join(BASE_DIR, 'staticfiles')
# this is where our static files are copied FROM
STATICFILES_DIRS = [
    os.path.join(BASE_DIR, 'carzone/static'),
]
```

This is our STATIC STORAGE:

```
# Whitenoise Configuration for HEROKU deployment
STATICFILES_STORAGE = 'whitenoise.storage.CompressedManifestStaticFilesStorage'
WHITENOISE_SKIP_MISSING_FILES = True
WHITENOISE_MANIFEST_STRICT = False
```

2. Run `HEROKU OPEN` and the app should open. The address is the random name that Heroku gave our app. You can replace this if you purchase a DOMAIN like from NAMECHEAP or GoDADDY!

```
prune
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project (main)
$ heroku open
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project (main)
```



3. When you open the app, the images for the TEAM, FEATURED CARS wont show up. So you now need to load the JSON file to upload all our sample records that we did locally through our computer/laptop.



Featured **Cars**

Lorem ipsum dolor sit amet, consectetur adipiscing elit.



Latest **Cars**

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Executive **Team**

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod

4. We remove the /MEDIA file from .GITIGNORE.

5. We load our JSON file into HEROKU SERVER

```
python manage.py loaddata project_dump.json
```

```

git: 'open' is not a git command. See 'git --help'.
Running 'python manage.py loaddata project_dump.json' on lit-cliffs-98316... up, run.6736
System check identified some issues:

WARNINGS:
?: (ckeditor.W001) django-ckeditor bundles CKEditor 4.22.1 which isn't supported anymore and has some
issues, see for example https://ckeditor.com/cke4/release/CKEditor-4.24.0-LTS . You should use a
different editor (maybe CKEditor 5 respectively django-ckeditor-5 after checking whether the
you) or switch to the non-free CKEditor 4 LTS package. See https://ckeditor.com/ckeditor-4-s
is notice has been added by the django-ckeditor developers and we are not affiliated with C
the licensing change, so please refrain from complaining to us. Thanks.)
cars.Car: (models.W042) Auto-created primary key used when not defining a primary key type
ield'.

HINT: Configure the DEFAULT_AUTO_FIELD setting of the CarsConfig.default_auto_field
F AutoField, e.g. 'django.db.models.BigAutoField'.
Installed 85 object(s) from 1 fixture(s)
(env)

Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 9 commits.
(use "git push" to publish your local commits)

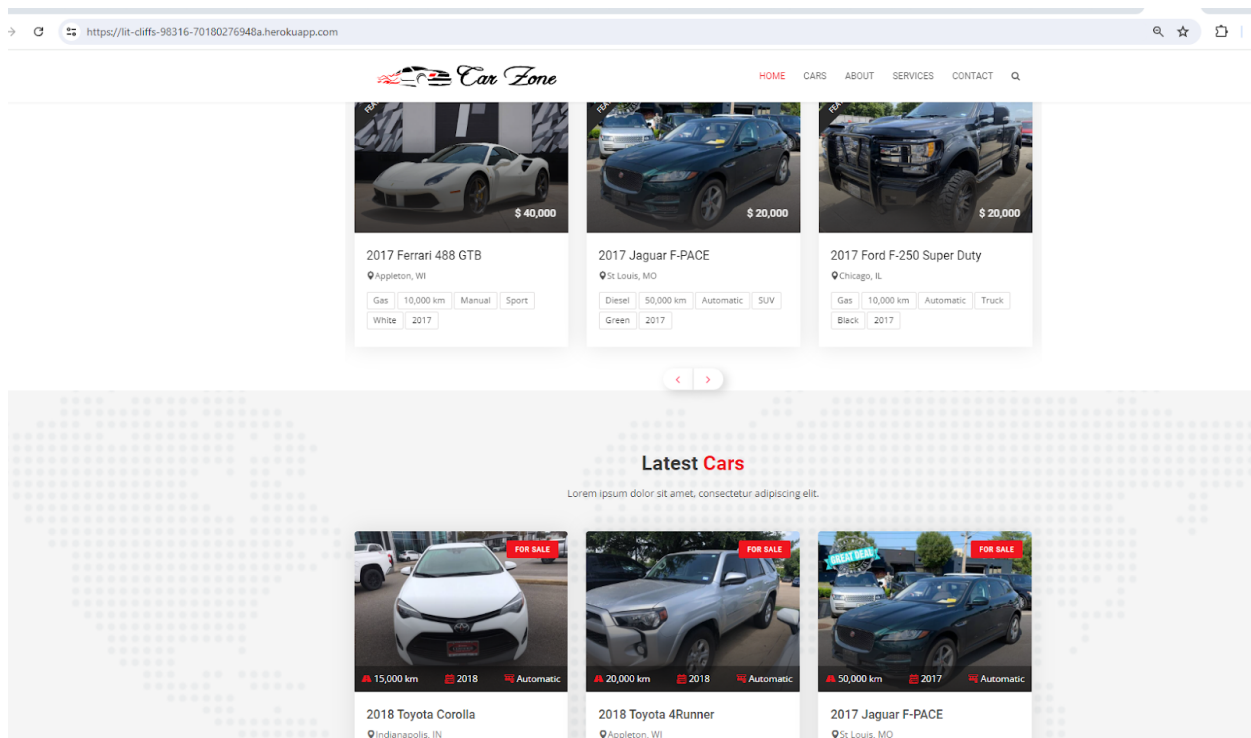
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   carzone/settings.py

no changes added to commit (use "git add" and/or "git commit -a")
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project (main)
$ git add -A
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project (main)
$ git commit -m "Set Debug to True for media files"
[main aa823d4] Set Debug to True for media files

```

6. We changed our DEBUG to TRUE

7. We pushed our changes to Heroku Server and we now see our media files.



8. But we encounter errors when we login. We can fix this via the ADMIN PANEL if you can access it otherwise, we use the Python shell to activate our admin site.

https://lit-cliffs-98316-70180276948a.herokuapp.com/accounts/login

DoesNotExist at /accounts/login

No exception message supplied

Request Method: GET
Request URL: https://lit-cliffs-98316-70180276948a.herokuapp.com/accounts/login
Django Version: 4.2.14
Exception Type: DoesNotExist
Exception Location: /app/.heroku/python/lib/python3.9/site-packages/allauth/socialaccount/adapter.py, line 304, in get_app
Raised during: accounts.views.login
Python Executable: /app/.heroku/python/bin/python
Python Version: 3.9.9
Python Path: ['/app/.heroku/python/bin',
'/app',
'/app/.heroku/python/lib/python3.9.zip',
'/app/.heroku/python/lib/python3.9',
'/app/.heroku/python/lib/python3.9/lib-dynload',
'/app/.heroku/python/lib/python3.9/site-packages']
Server time: Fri, 02 Aug 2024 19:17:39 +0000

Error during template rendering

in template /app/templates/accounts/login.html, error at line 64

Could not get exception message)

```
54         <i class="flaticon-lock"></i>
55     </div>
56     <div class="form-group mb-0 clearfix">
57         <button type="submit" class="btn-md btn-theme float-left">Login</button>
58     </div>
59     <div class="extra-login clearfix">
60         <span>Or Login With</span>
61     </div>
62     <div class="clearfix"></div>
63     <ul class="social-list">
64         <li><a href="{% provider_login_url 'facebook' method='oauth2' %}" class="facebook-bg"><i
65             class="fa fa-facebook facebook-i"></i><span>Facebook</span></a></li>
66         <li><a href="{% provider_login_url 'google' %}" class="google-bg"><i
67             class="fa fa-google google-i"></i><span>Google</span></a></li>
68     </ul>
69 </form>
70 <p>Don't have an account? <a href="{% url 'register' %}" class="thembo"> Register here</a></p>
71 </div>
72 </div>
73 </div>
74 </div>
```

Traceback [Switch to copy-and-paste view](#)

app/.heroku/python/lib/python3.9/site-packages/django/core/handlers/exception.py, line 55, in inner

```
55.         response = get_response(request)
```

► Local vars

app/.heroku/python/lib/python3.9/site-packages/django/core/handlers/base.py, line 197, in __get_response

```
197.         response = wrapped_callback(request, *callback_args, **callback_kwargs)
```

► Local vars

We issue the codes using Python shell:


```

Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project (main)
$ heroku open
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project (main)
$ heroku run python manage.py shell
Running python manage.py shell on lit-cliffs-98316... up, run.6538
Python 3.9.9 (main, Apr 16 2024, 17:51:45)
[GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
(InteractiveConsole)
>>> from django.contrib.sites.models import Site
from django.contrib.sites.models import Site
>>> site = Site()
site = Site()
>>> site.domain = 'lit-cliffs-98316-70180276948a.herokuapp.com'
site.domain = 'lit-cliffs-98316-70180276948a.herokuapp.com'
File "<console>", line 1
site.domain = 'lit-cliffs-98316-70180276948a.herokuapp.com'
SyntaxError: EOL while scanning string literal
>>> site.domain = 'lit-cliffs-98316-70180276948a.herokuapp.com'
sitesite.domain = 'lit-cliffs-98316-70180276948a.herokuapp.com'
File "<console>", line 1
site.domain = 'lit-cliffs-98316-70180276948a.herokuapp.com'
SyntaxError: EOL while scanning string literal
>>> site.domain = 'lit-cliffs-98316-70180276948a.herokuapp.com'
site.domain = 'lit-cliffs-98316-70180276948a.herokuapp.com'
site.name = 'site.domain = 'lit-cl[Ciffs-98316-70180276948a.herokuapp.com''
File "<console>", line 1
site.name = 'site.domain = 'lit-cl[Ciffs-98316-70180276948a.herokuapp.com''
SyntaxError: invalid syntax
>>> site.name = 'lit-cliffs-98316-70180276948a.herokuapp.com'
sit'lit-cliffs-98316-70180276948a.hesite.name = 'lit-cliffs-98316-70180276948a.herokuapp.com'.a.herokuapp.com'
File "<console>", line 1
sit'lit-cliffs-98316-70180276948site.name = 'lit-cliffs-98316-70180276948a.herokuapp.com'.a.herokuapp.com'
SyntaxError: invalid syntax
>>> site.name = 'lit-cliffs-98316-70180276948a.herokuapp.com'
site.name = 'lit-cliffs-98316-70180276948a.herokuapp.com'
>>> site.save()
site.save()
>>> print(site.objects.get(name='lit-cliffs-98316-70180276948a.herokuapp.com').id)

```

9. To get the SITE_ID of our heroku app:

```

>>> print(Site.objects.get(name='lit-cliffs-98316-70180276948a.herokuapp.com').id)
print(Site.objects.get(name='lit-cliffs-98316-70180276948a.herokuapp.com').id)
3
>>> Terminate batch job (Y/N)? Y

```

So we changed SITE_ID in SETTINGS.PY:

```

187
188 # SOCIAL MEDIA CONFIGURATION
189 # SITE_ID = 1 # localhost ID
190 SITE_ID = 3 # heroku's current app URL
191

```

10. Run your admin panel and you should be able to see your registered app domain name.

Car Zone

Home > Sites > Sites

Select site to change

Start typing to filter...

ACCOUNTS

Email addresses + Add

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

CARS

Cars + Add

CONTACTS

Contacts + Add

PAGES

Teams + Add

SITES

Sites + Add

SOCIAL ACCOUNTS

Social accounts + Add

Social application tokens + Add

Social applications + Add

3 sites

DOMAIN NAME	DISPLAY NAME
<input type="checkbox"/> example.com	example.com
<input type="checkbox"/> [REDACTED].com	[REDACTED].com
<input type="checkbox"/> localhost:8000	localhost:8000

11. We get the error because of Facebook and Google configurations. So go back to the admin panel and make sure we add our newly registered domain.

Car Zone

Home > Social Accounts > Social applications > Facebook Login

Change social application

Facebook Login

Provider: Facebook

Provider ID:

Name: Facebook Login

Client id: 871960464798627
App ID, or consumer key

Secret key: ef9c76d47f36e88367444811f0851533
API secret, client secret, or consumer secret

Key:

Settings:

Sites:

Available sites

Chosen sites

localhost:8000

lit-cliffs-98316-70180276948a.herokuapp.com

example.com

Choose all

Remove all

https://lit-cliffs-98316-70180276948a.herokuapp.com/accounts/login

DoesNotExist at /accounts/login

No exception message supplied

```

Request Method: GET
Request URL: https://lit-cliffs-98316-70180276948a.herokuapp.com/accounts/login
Django Version: 4.2.14
Exception Type: DoesNotExist
Exception Location: /app/.heroku/python/lib/python3.9/site-packages/allauth/socialaccount/adapter.py, line 304, in get_app
Raised during: accounts.views.login
Python Executable: /app/.heroku/python/bin/python
Python Version: 3.9.0
Python Path: ['/app/.heroku/python/bin',
              '/app',
              '/app/.heroku/python/lib/python3.9.zip',
              '/app/.heroku/python/lib/python3.9',
              '/app/.heroku/python/lib/python3.9/lib-dynload',
              '/app/.heroku/python/lib/python3.9/site-packages']
Server time: Fri, 02 Aug 2024 20:47:42 +0000
    
```

Error during template rendering

template /app/templates/accounts/login.html, error at line 64

Could not get exception message)

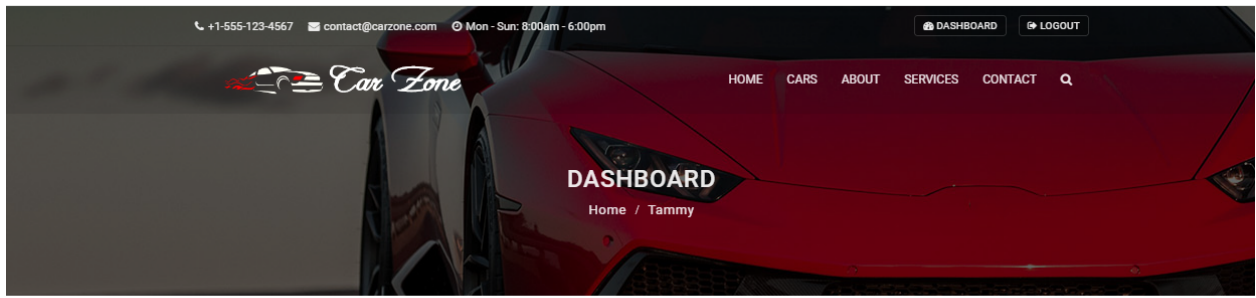
```

54         <i class="flaticon-lock"></i>
55     </div>
56     <div class="form-group mb-0 clearfix">
57         <button type="submit" class="btn-md btn-theme float-left">Login</button>
58     </div>
59     <div class="extra-login clearfix">
60         <span>Or Login With</span>
61     </div>
62     <div class="clearfix"></div>
63     <ul class="social-list">
64         <li><a href="{% provider_login_url 'facebook' method='oauth2' %}" class="facebook-bg":
65             class="fa fa-facebook facebook-i"></i><span>Facebook</span></a></li>
66         <li><a href="{% provider_login_url 'google' %}" class="google-bg"><i
67             class="fa fa-google google-i"></i><span>Google</span></a></li>
68     </ul>
69 </div>
70 </div>
71 <p>Don't have an account? <a href="{% url 'register' %}" class="thembo"> Register here</a></p>
72 </div>
73 </div>
74 </div>
    
```

Traceback [Switch to copy-and-paste view](#)

app/.heroku/python/lib/python3.9/site-packages/django/core/handlers/exception.py, line 55, in inner

12. You can now log in and add like messages. The admin can view the details of this messages via the admin dashboard.



Welcome **Tammy**

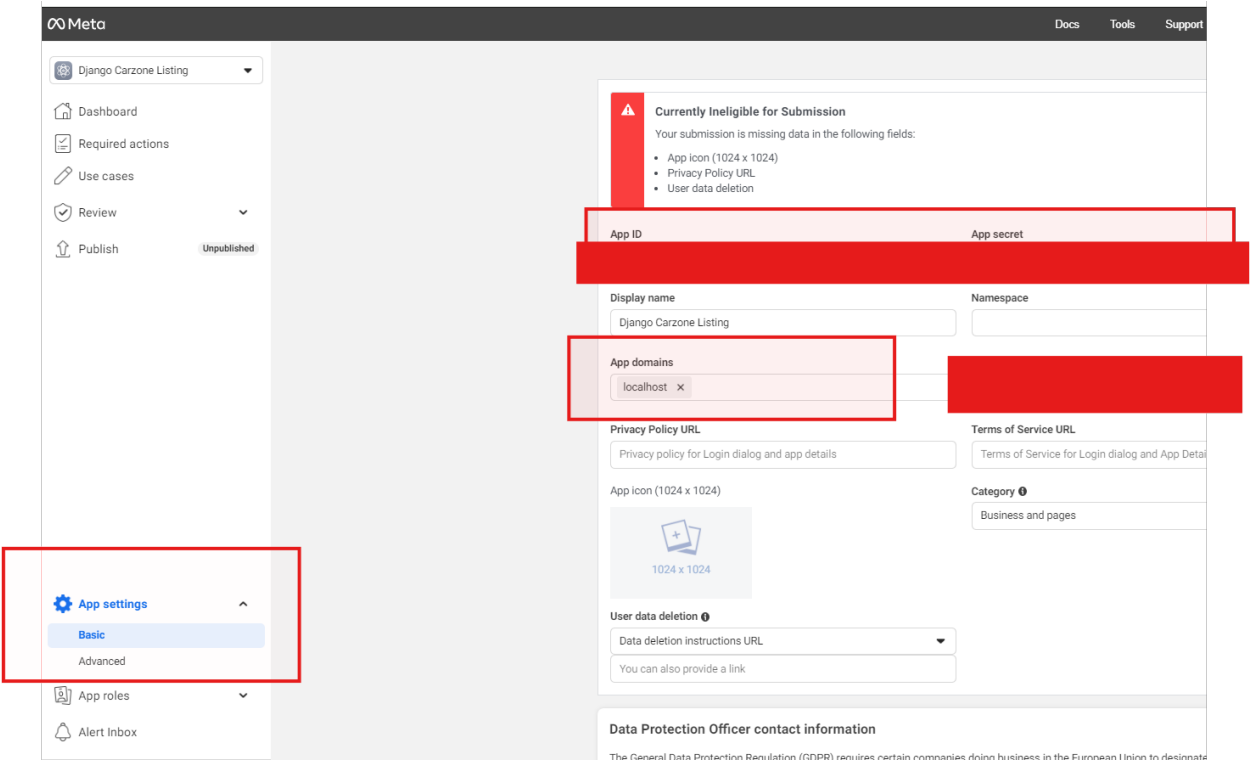
Here are the cars that you have inquired about

#	Car Name	Inquiry Subject	Action
1	2018 Toyota Corolla	I'm interested in this	<button>View Car</button>

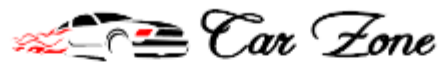
13. Next we need to fix the Social Media Login since we have a new domain name BUT YOU NEED YOUR SSL so get this from heroku dashboard but this requires configuration. For practice, just copy the website's complete address that has SSL

Go to DEVELOPERS.FACEBOOK.COM and update your new domain name.

FROM:



TO:



Sign into your account



username



Password

LOGIN

Or Login With



Facebook



Google

Don't have an account? [Register here](#)

14. We add the **Valid OAuth Redirect URIs** t

too, <https://lit-cliffs-98316-70180276948a.herokuapp.com/socialaccounts/facebook/login/callback/> Take note of the URL you have when you login. This is the URL you set in your URLS.PY. So on FACEBOOK DEVELOPERS dashboard, we add Click on

Meta

Use cases > Customize

Customize

Customize use case settings and permissions to make your app work the way you want it to.

Added to app

Facebook Login

Permissions

Settings

Quickstart

Manage use cases

Redirect URI Validator

Redirect URI to Check

<https://example.com/oauth.php>

Check URI

Client OAuth settings

☒ Client OAuth login
Enables the standard OAuth client token flow. Secure your application and prevent abuse by locking down which token redirect URIs are allowed with the options below. Disable globally if not used. [?]

☒ Web OAuth login
Enables web-based Client OAuth Login. [?]

☐ Force Web OAuth reauthentication
When on, prompts people to enter their Facebook password in order to log in on the web. [?]

☒ Use Strict Mode for redirect URIs
Only allow redirects that exactly match the Valid OAuth Redirect URIs. Strongly recommended. [?]

Valid OAuth Redirect URIs

A manually specified redirect_uri used with Login on the web must exactly match one of the URIs listed here. This list is also used by the JavaScript SDK for in-app browsers that suppress popups. [?]

<https://lit-cliffs-98316-70180276948a.herokuapp.com/socialaccounts/facebook/login/callback/>

Copy to clipboard

☐ Login from Devices
Enables the OAuth client login flow for devices like a smart TV [?]




Allowed Domains for the JavaScript SDK

Login and signed-in functionality of the JavaScript SDK will only be available on these domains. [?]

Allowed Domains for the JavaScript SDK

You should be able to proceed now with your Facebook login:

https://www.facebook.com/privacy/consent/gdp/?params%5Bapp_id%5D=871960464798627¶ms%5Bkid_directed_site%5D=false¶ms%5Blogger_id%5D="f7aecec4-e780-4f6e-8569-28c33e10c72e"¶m

You previously logged in to Django Carzone Listing with Facebook.

Would you like to continue?

[Continue as Rosy](#) [Cancel](#)

By continuing, Django Carzone Listing will receive ongoing access to the information you share and Facebook will record when Django Carzone Listing accesses it. [Learn more](#) about this sharing and the settings you have.

[Django Carzone Listing's Privacy Policy](#)

15. We do the same for GOOGLE LOGIN. Go to [Google Developers' Console](#) and update the URLs.

←

→

↺

https://console.cloud.google.com/apis/credentials?authuser=1&project=car-listing-430220

📁

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

API

APIs & Services

🔔

Credentials

+ CREATE CREDENTIALS

🗑️ DELETE

↶ RESTORE DELETED CREDENTIALS

🔗

Enabled APIs & services

📖

Library

🔑

Credentials

👤

OAuth consent screen

📄

Page usage agreements

Select at least one credential

Create credentials to access your enabled APIs. [Learn more](#)

API Keys

☐

Name

Creation date ↓

No API keys to display

OAuth 2.0 Client IDs

☐

Name

Creation date ↓

☐

Carzone Listing

Jul 22, 2024

Service Accounts

☐

Email

Name

No service accounts to display

←

→

↺

https://console.cloud.google.com/apis/credentials/oauthclient/506869652106-rs9hca2it9ra12edjsq6re7alrrjag6a.apps.googleusercontent.com?authuser=1&project=car-listing-430220

📁

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

API

APIs & Services

🔔

Client ID for Web application

🗑️ DELETE

🔗

Enabled APIs & services

📖

Library

🔑

Credentials

👤

OAuth consent screen

📄

Page usage agreements

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

Additional information

Client ID

506869652106-rs9hca2it9ra12edjsq6re7alrrjag6a.apps.googleusercontent.com

Creation date

July 22, 2024 at 4:00:07 PM GMT-5

Client secrets

If you are in the process of changing client secrets, you can manually rotate them w

Client secret

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

Creation date

July 22, 2024 at 4:00:07 PM GMT-5

Status

🟢 Enabled

+ ADD SECRET

Name *

Carzone Llisting

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 *

https://lit-cliffs-98316-70180276948a.herokuapp.com

+ ADD URI

Authorized redirect URIs ?

For use with requests from a web server

URIs 1 *

https://lit-cliffs-98316-70180276948a.herokuapp.com/socialaccounts/google

+ ADD URI

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

SAVE

CANCEL

16. Now load and test your page.