

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_HOSTS 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@c81j070d5ubs83.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 Rathans uses. This is what the HEROKU documentation requires.

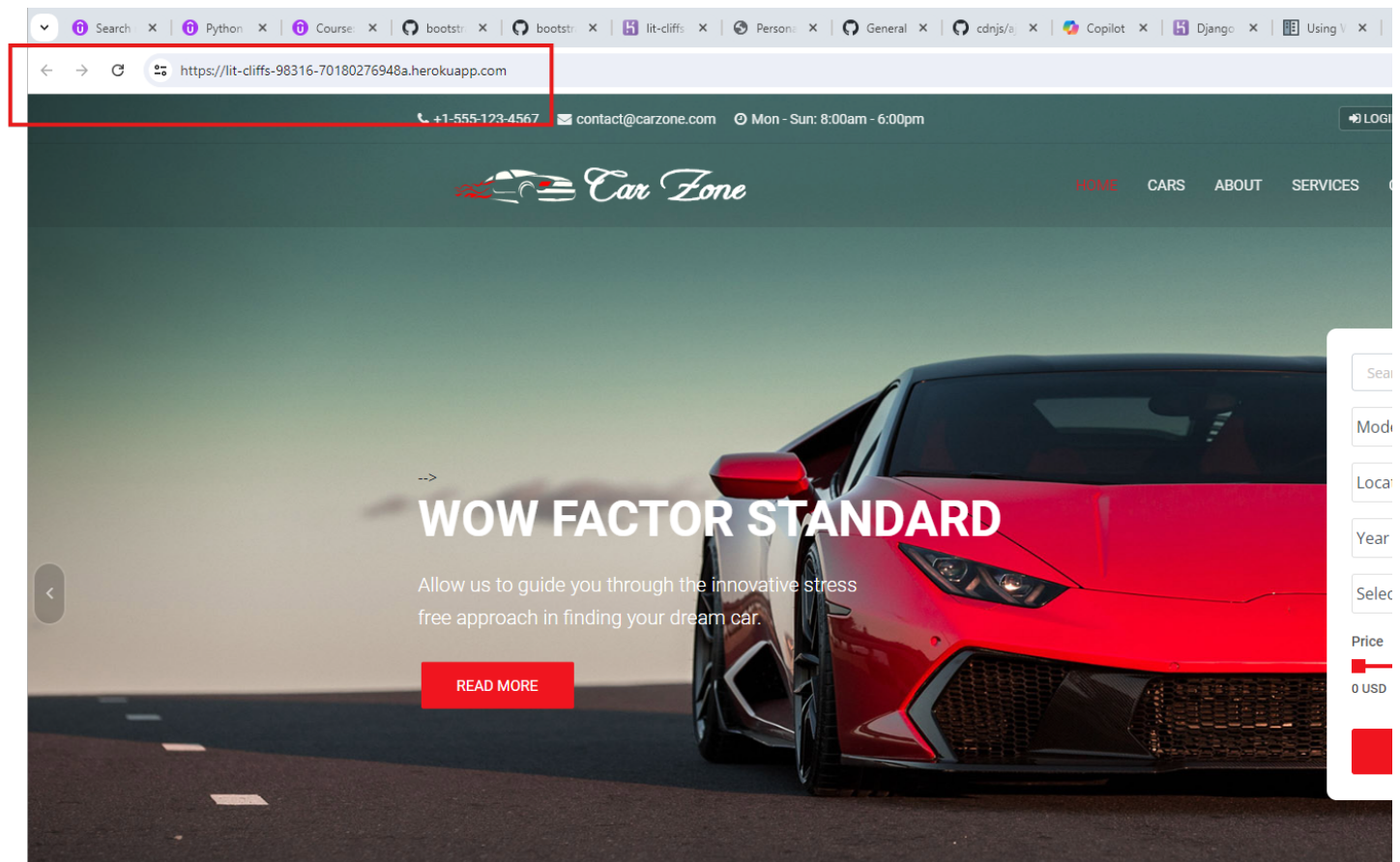
```
# STATIC FILE CONFIGURATON
STATIC_URL = '/static/'
# creates this new folder and copies all the static files TO this new folder after COLLECTSTATIC is issued
STATIC_ROOT = os.path.join(BASE_DIR, 'staticfiles')
# this is where our static files are copied FROM
STATICFILES_DIRS = [
    os.path.join(BASE_DIR, '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 di
fferent editor (maybe CKEditor 5 respectively django-ckeditor-5 after checking whether the license
you or switch to the non-free CKEditor 4 LTS package. See https://ckeditor.com/ckeditor-4-s
This notice has been added by the django-ckeditor developers and we are not affiliated with CK
due to 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 in
field.

HINT: Configure the DEFAULT_AUTO_FIELD setting of the Django ORM to '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)

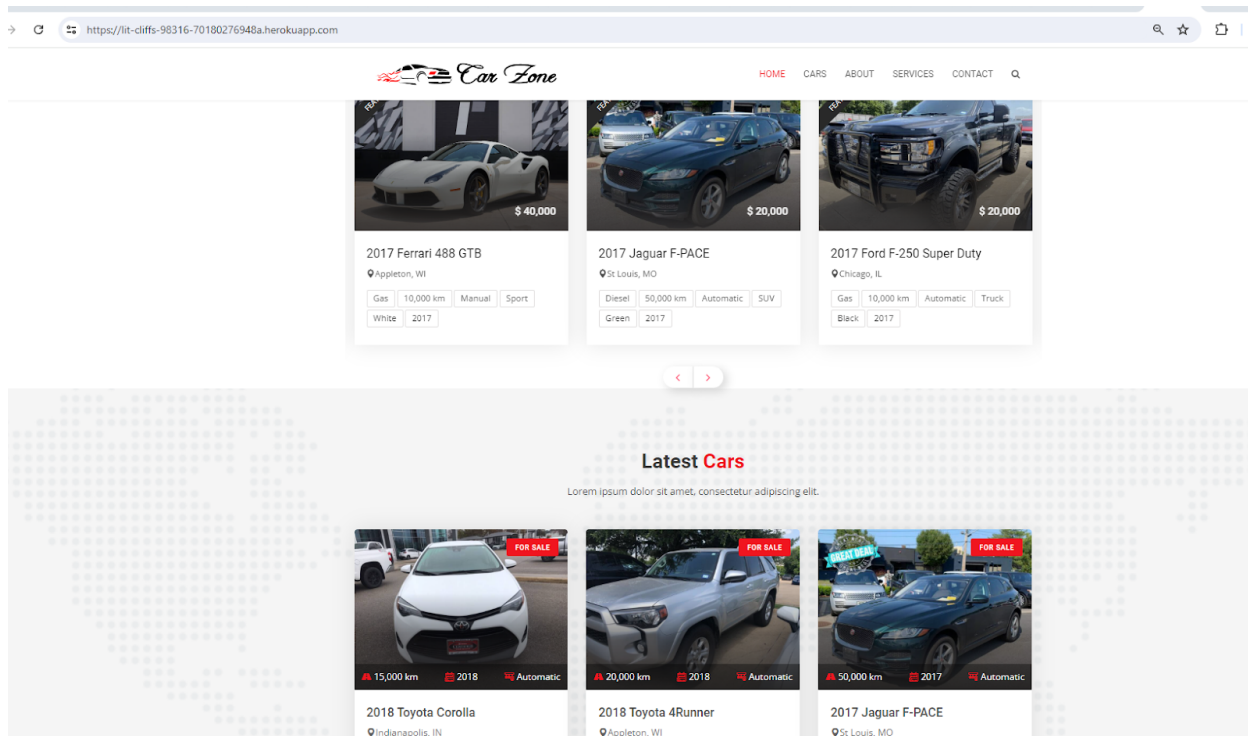
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   carzone/settings.py

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.

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

n 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 </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

```
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:

```

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

```

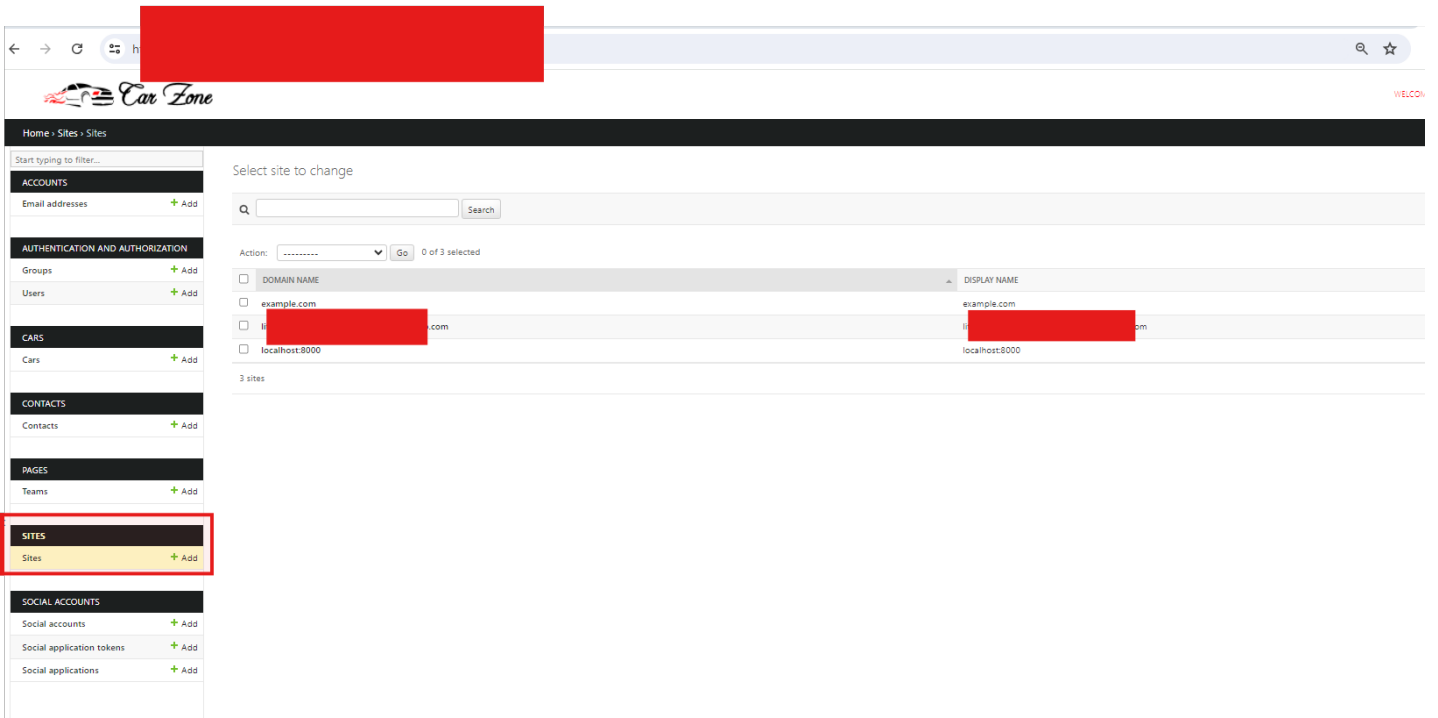
So we changed SITE_ID in SETTINGS.PY:

```

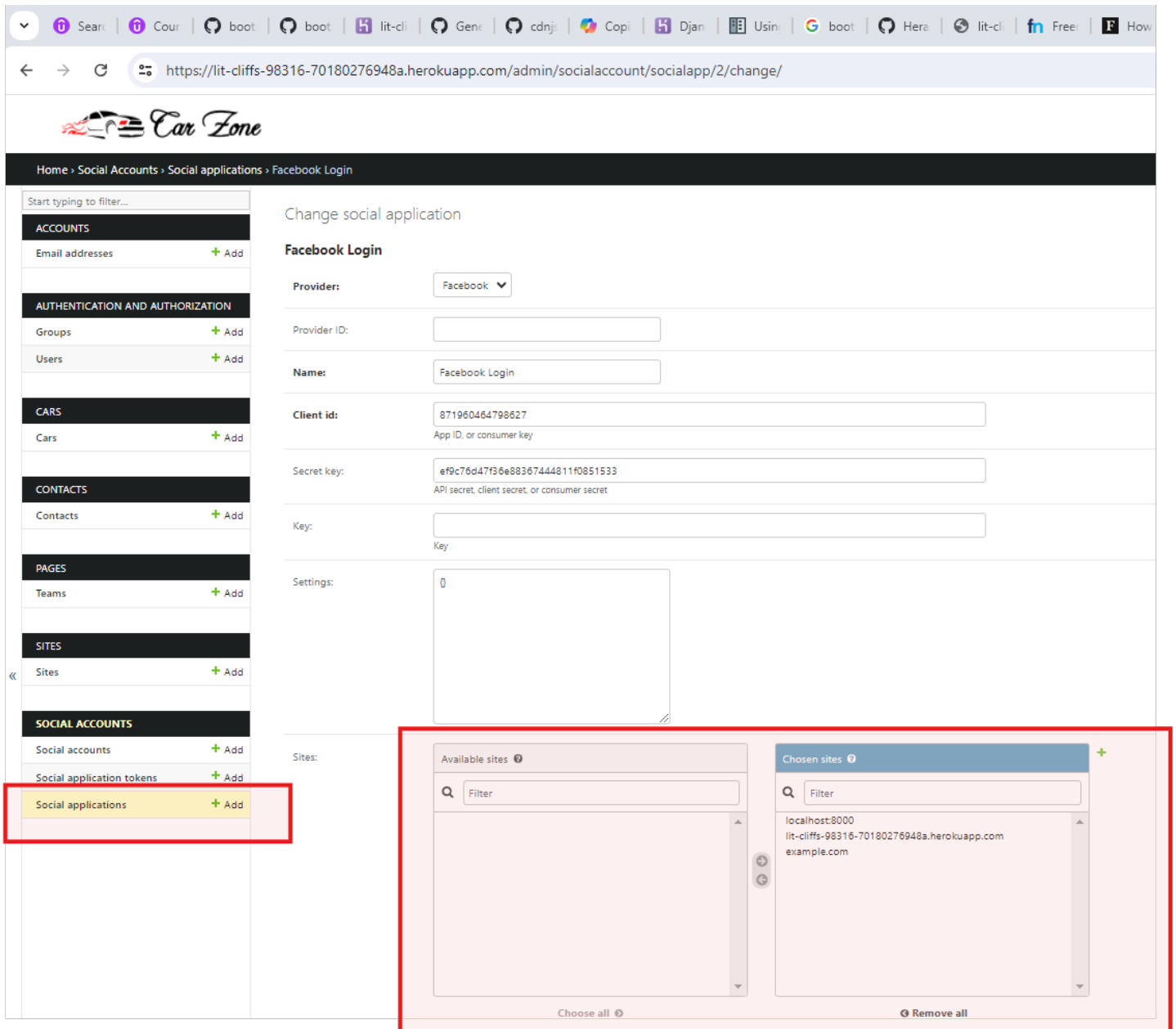
87
88 # SOCIAL MEDIA CONFIGURATION
89 # SITE_ID = 1 # Localhost ID
90 SITE_ID = 3 # heroku's current app URL
91

```

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



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.



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

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

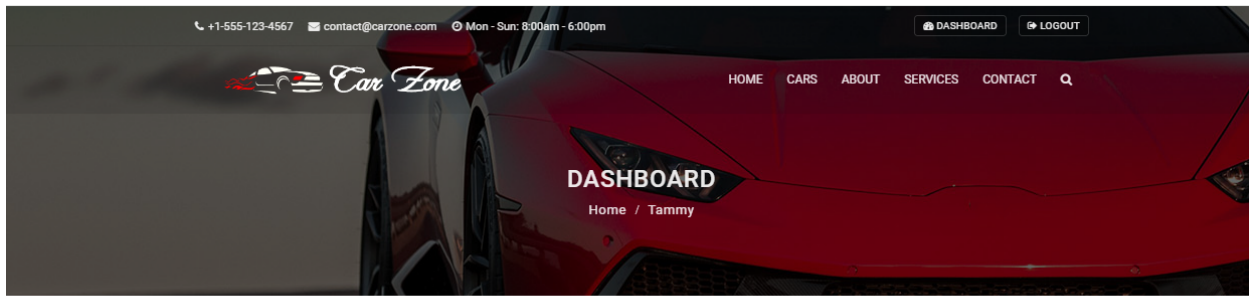
Could not get exception message)

```
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
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

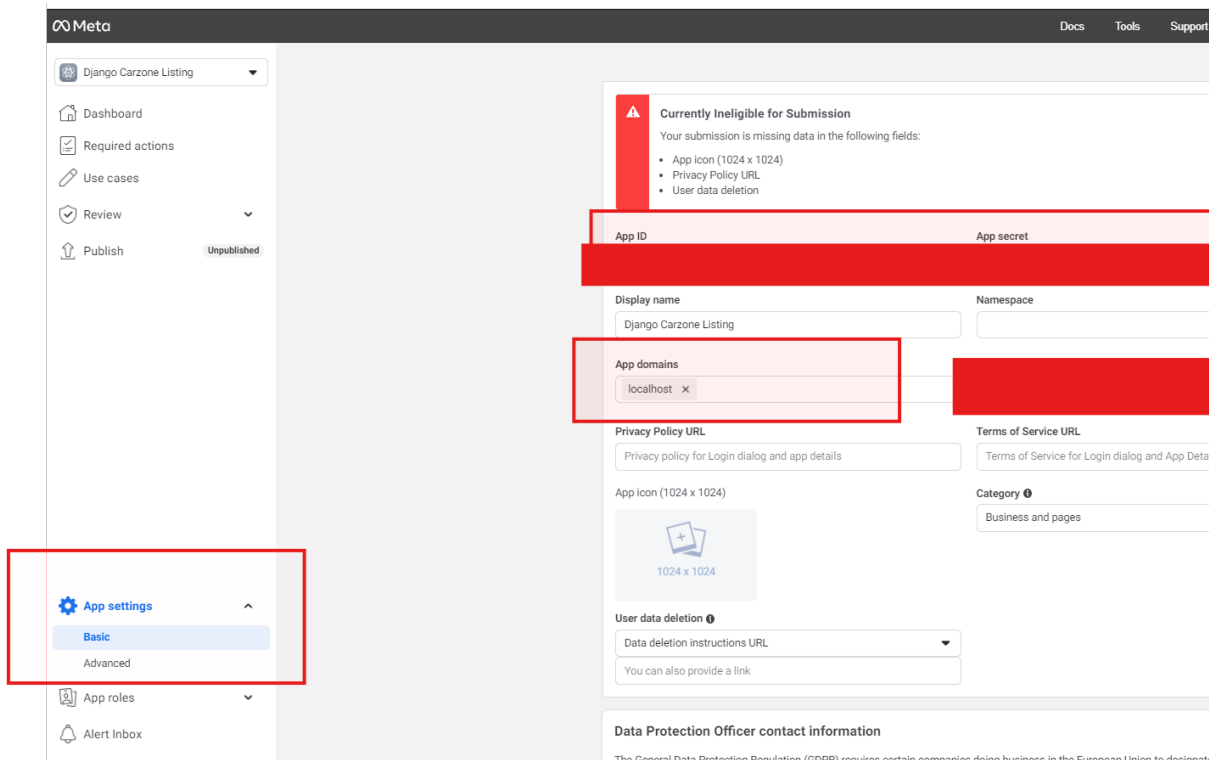
Here are the cars that you have inquired about

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

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

LOGIN

Or Login With



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

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. [?]

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

search | Cour | bo | bo | lit-d | Gen | cdn | Cop | Djar | Usin | bo | Her | Unt | Log | New | go | Goc | Goc | Djar | Pers | fire

https://www.facebook.com/privacy/consent/gdp/?params%5Bapp_id%5D=871960464798627¶ms%5Bkid_directed_site%5D=false¶ms%5Blogger_id%5D="f7aeece4-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.

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

Credentials

+ CREATE CREDENTIALS

DELETE

RESTORE DELETED CREDENTIALS

Select at least one credential

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

API Keys

<input type="checkbox"/>	Name	Creation date ↓
No API keys to display		

OAuth 2.0 Client IDs

<input type="checkbox"/>	Name	Creation date ↓
<input type="checkbox"/>	Carzone Listing	Jul 22, 2024

Service Accounts

<input type="checkbox"/>	Email	Name
No service accounts to display		

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

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-rs9hca2it9ra12edjsq6re7alrjag6a.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

Client secret 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

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

Status ✔ Enabled

+ ADD SECRET

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 *

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.