

Topic: Car Listing: Deployment using Heroku Part 19A

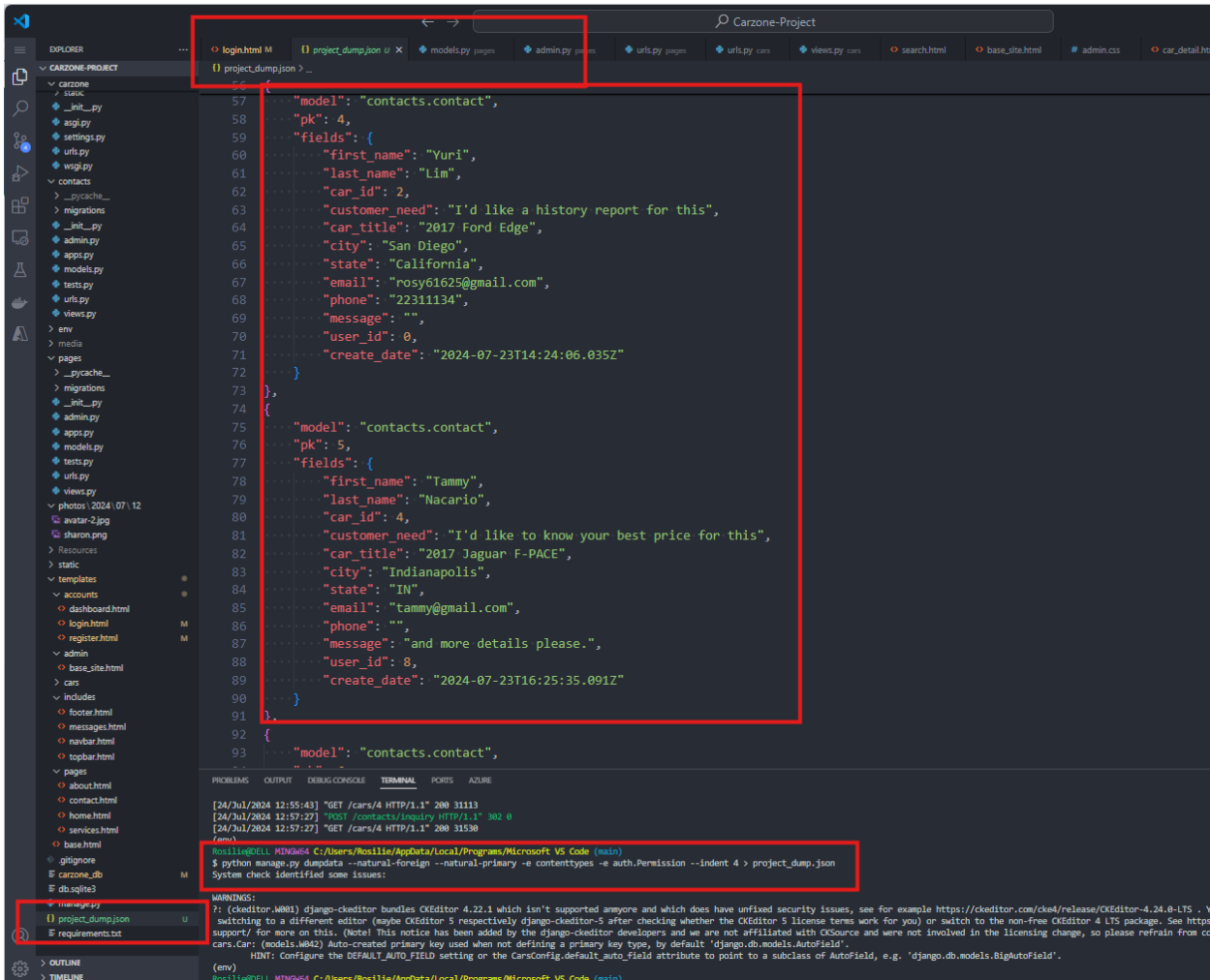
Speaker: / Notebook: Django Project: Car Listing



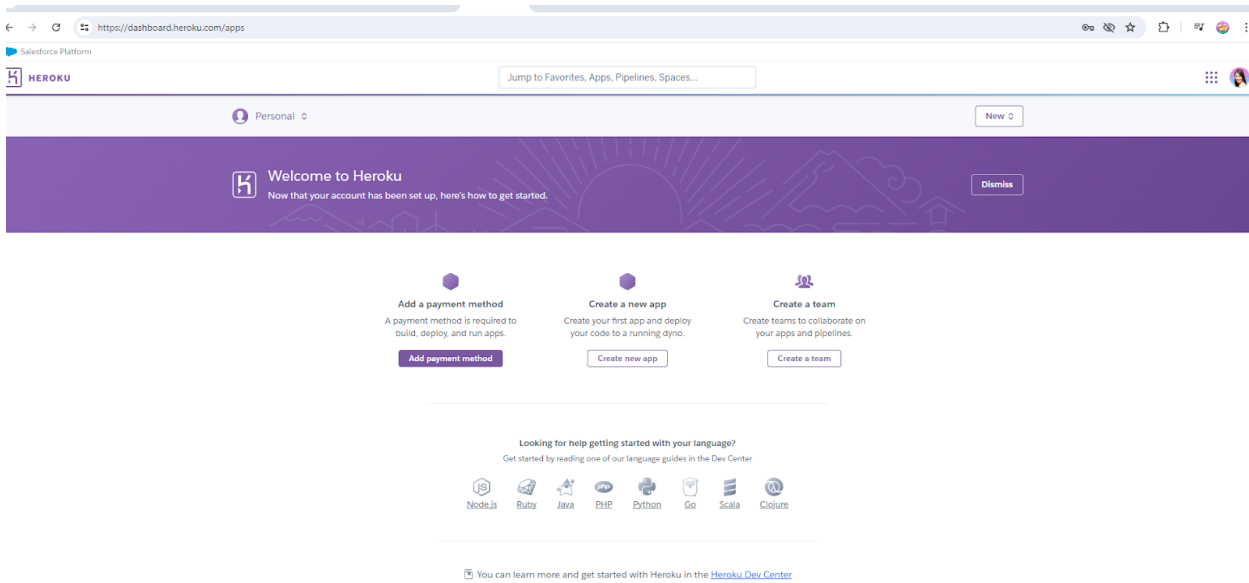
1. Dump or create a copy of your PostgreSQL database and its records into a JSON file. We issue the command below in our GitBash Terminal

```
$ python manage.py dumpdata --natural-foreign --natural-primary -e contenttypes -e auth.Permission --indent 4 > project_dump.json
```

This will produce a new file called PROJECT_DUMP.JSON that contains all the models and the records we have made.



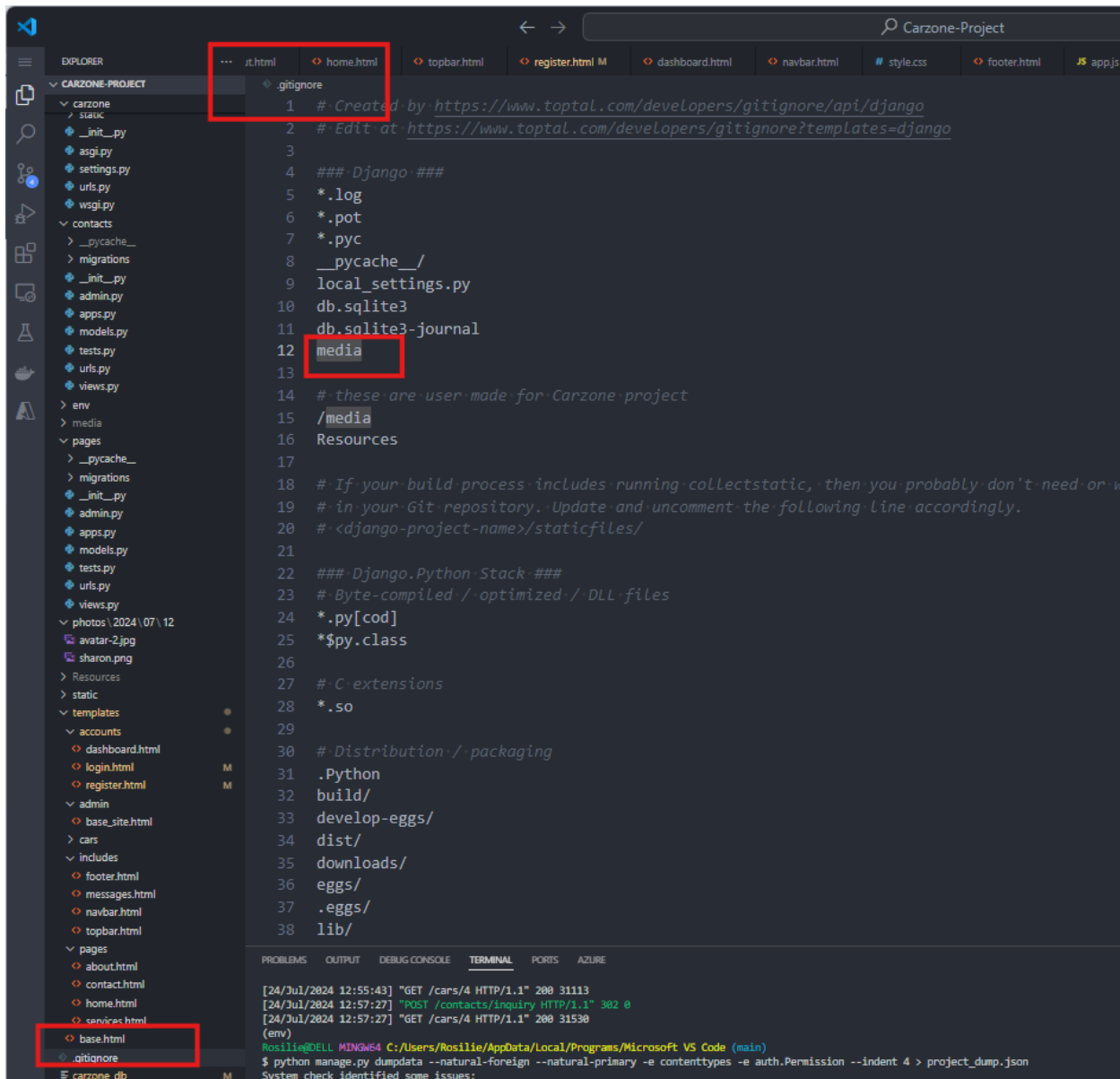
2. Now, to deploy the project in HEROKU, create a new account in HEROKU.



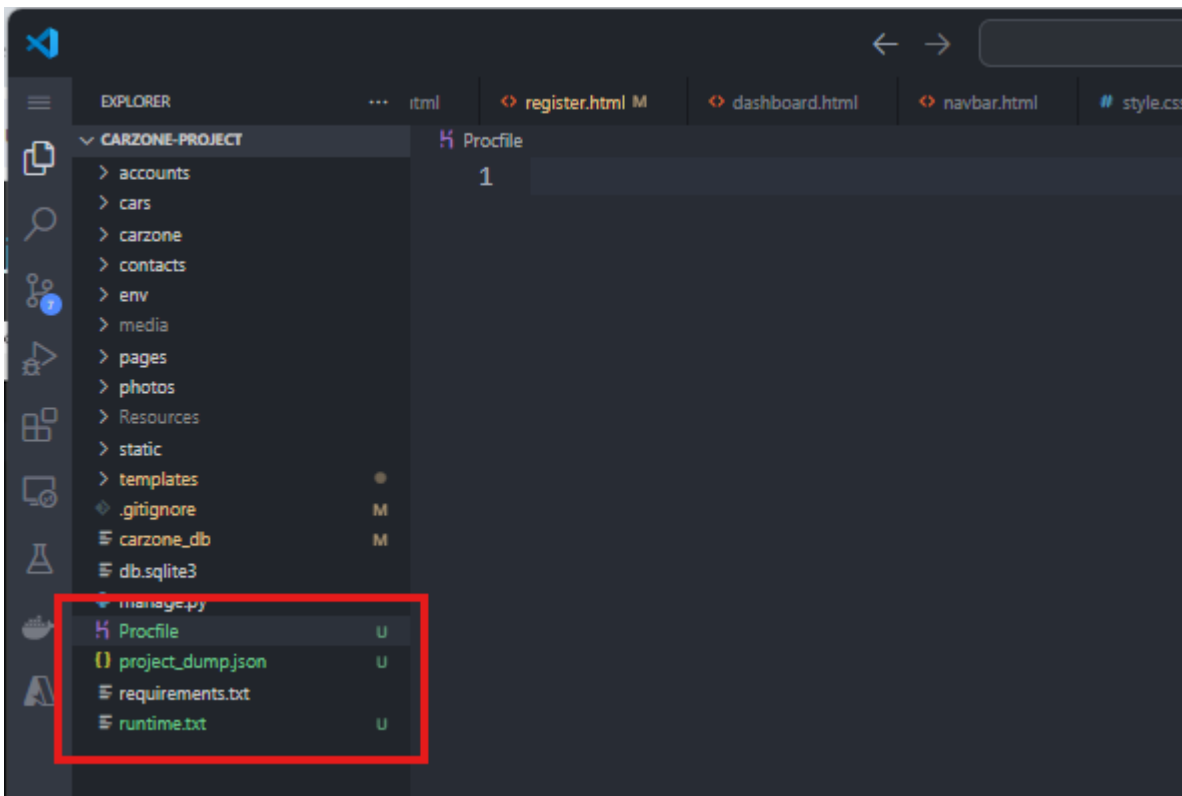
3. Update your .GITIGNORE FILE, remove the following from the .GITIGNORE file:

MEDIA

STATIC (ONLY IF YOU FOUND IT. IN OUR CASE, THERE IS NONE)



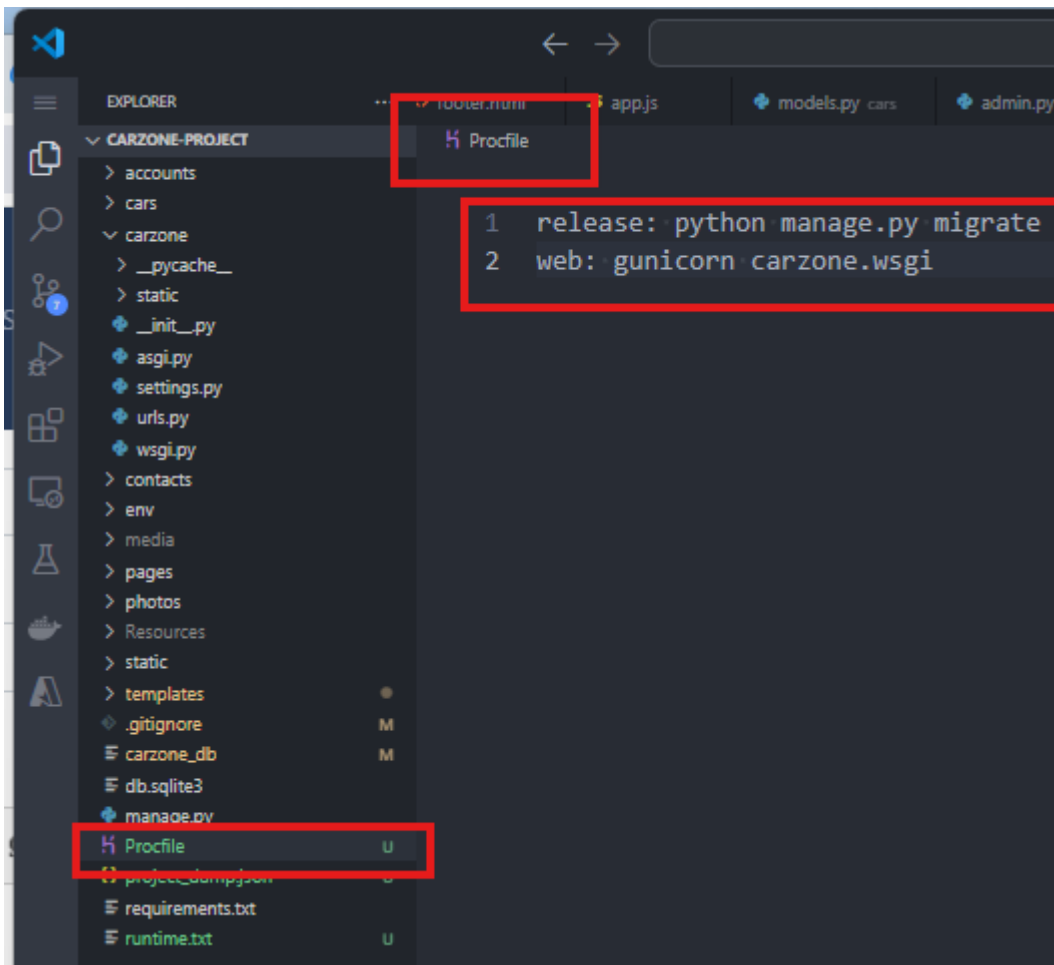
4. Create new files called runtime.txt and Procfile in the root directory.



5. In the Procfile file, type the following. Carzone here is the name that we see in CARZONE\WSGI.PY file. So, if your project name is different, then update accordingly.

release: python manage.py migrate

web: gunicorn carzone.wsgi



```
1 """  
2 WSGI config for carzone 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/3.0/howto/deployment/wsgi/  
8 """  
9  
10 import os  
11  
12 from django.core.wsgi import get_wsgi_application  
13  
14 os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'carzone.settings')  
15  
16 application = get_wsgi_application()  
17
```

6. In the RUNTIME.TXT, we type the version of Python that we used.

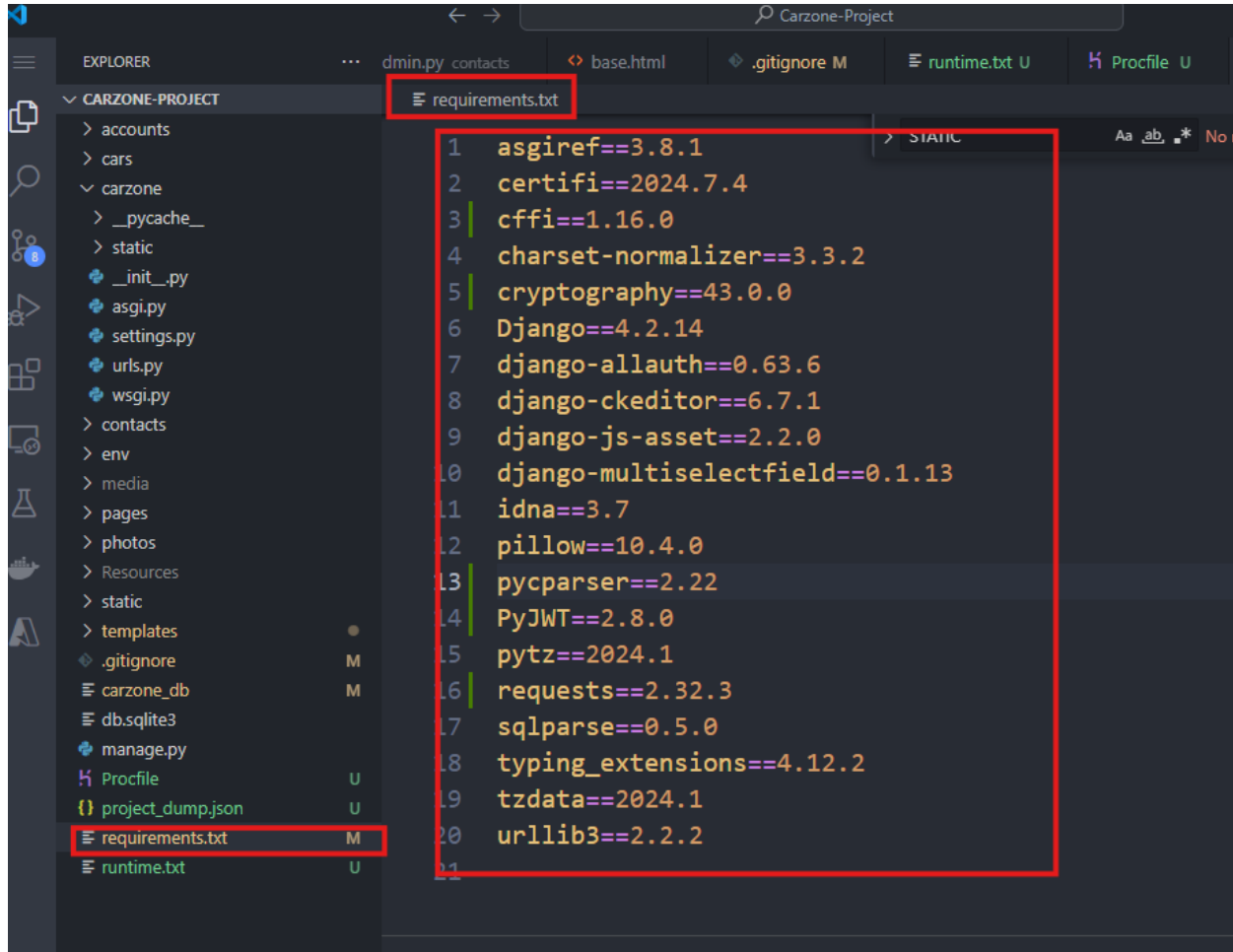
```
runtime.txt  
  
1 Python-3.9.9
```

To find out your Python version, type

```
(env)
Rosilie@DELL MINGW64 C:/Users/Ros
$ python --version
Python 3.9.9
(env)
```

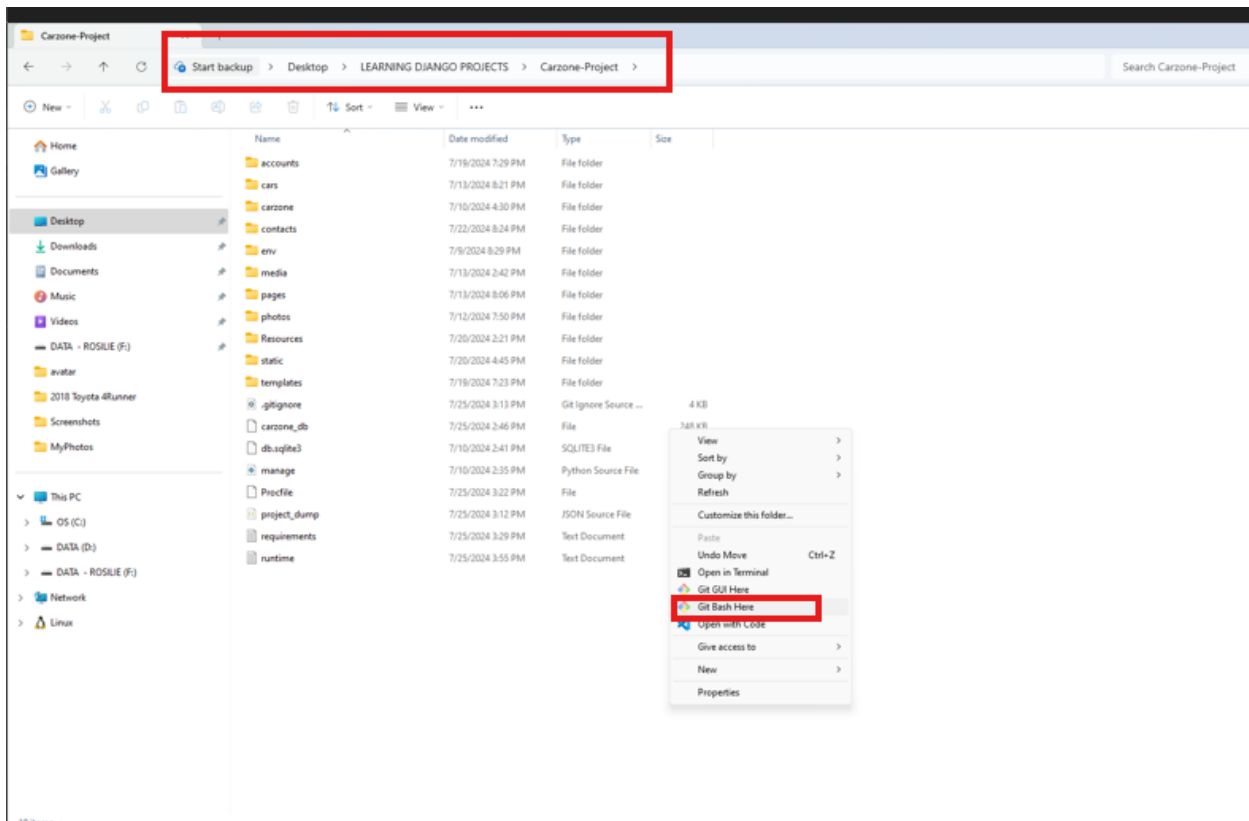
7. Update our REQUIREMENTS.TXT by using the code below:

```
$ pip freeze > requirements.txt
```



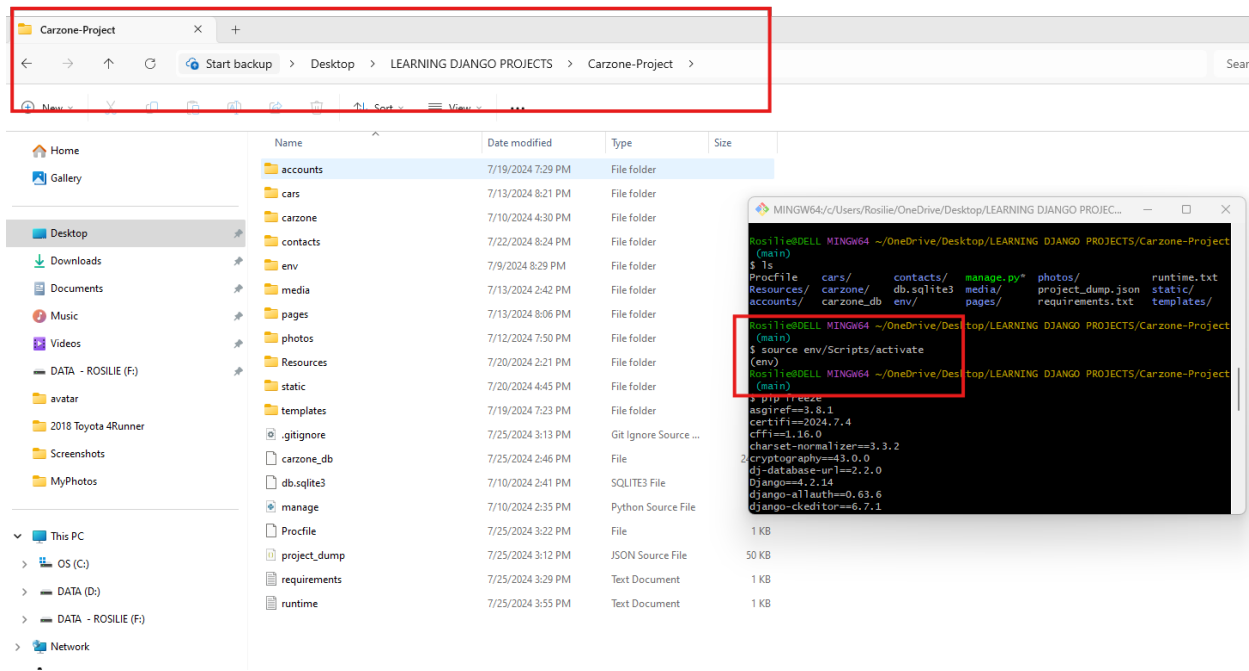
8. Use this [HEROKU DOCUMENTATION](#) as a guide. We need to [INSTALL HEROKU CLI](#).

We get inside our project folder and open GitBash here. PREVIOUSLY, WHAT YOU HAVE BEEN USING WAS THE GITBASH TERMINAL IN VS CODE.



9. In the GitBash terminal, make sure you activate your virtual environment.

\$ source env/Scripts/activate



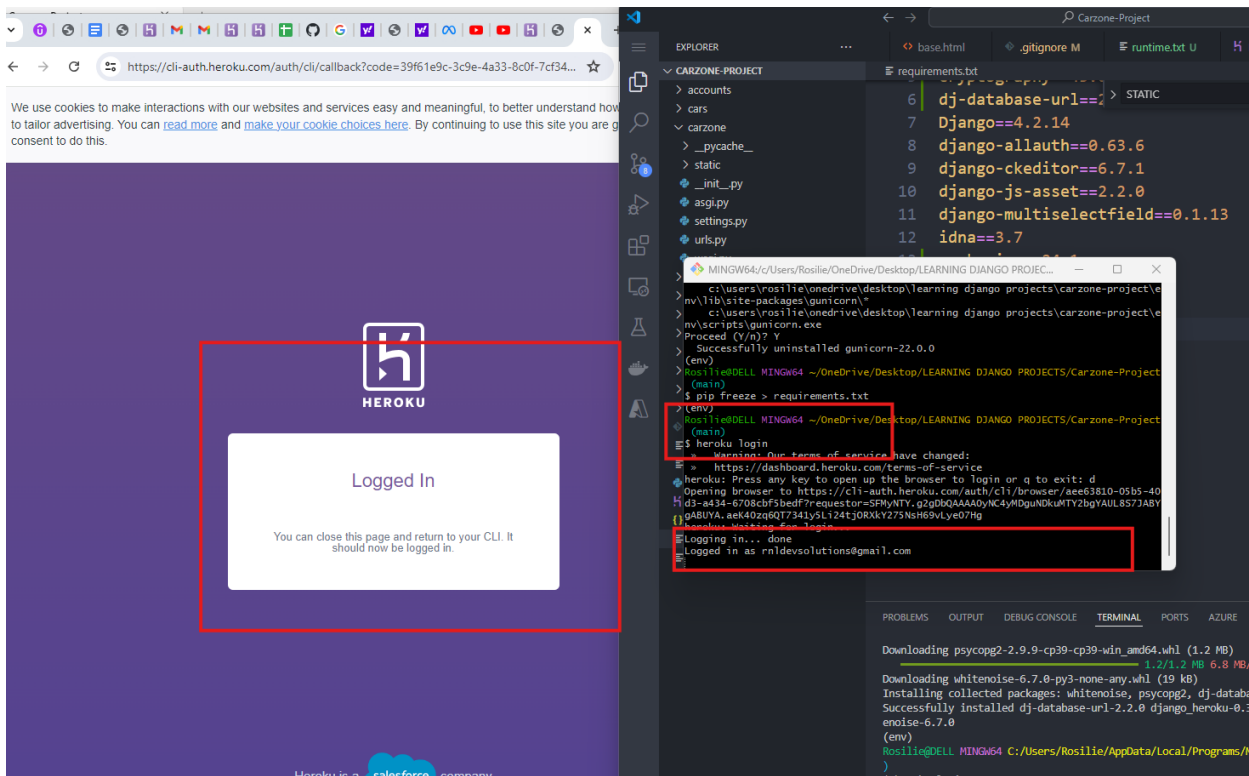
10. Now, when you type HEROKU LOGIN in the terminal, you should be able to use this:

```
MINGW64:/c/Users/Rosilie/OneDrive/Desktop/LEARNING DJANGO PROJEC...
(main)
$ pip uninstall gunicorn
Found existing installation: gunicorn 22.0.0
Uninstalling gunicorn-22.0.0:
  Would remove:
    c:\users\rosilie\onedrive\desktop\learning django projects\carzone-project\env\lib\site-packages\gunicorn-22.0.0.dist-info\*
    c:\users\rosilie\onedrive\desktop\learning django projects\carzone-project\env\lib\site-packages\gunicorn\*
    c:\users\rosilie\onedrive\desktop\learning django projects\carzone-project\env\scripts\gunicorn.exe
Proceed (Y/n)? Y
Successfully uninstalled gunicorn-22.0.0
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
(main)
$ pip freeze > requirements.txt
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
(main)
$ heroku login
» Warning: Our terms of service have changed:
» https://dashboard.heroku.com/terms-of-service
heroku: Press any key to open up the browser to login or q to exit: .....
```

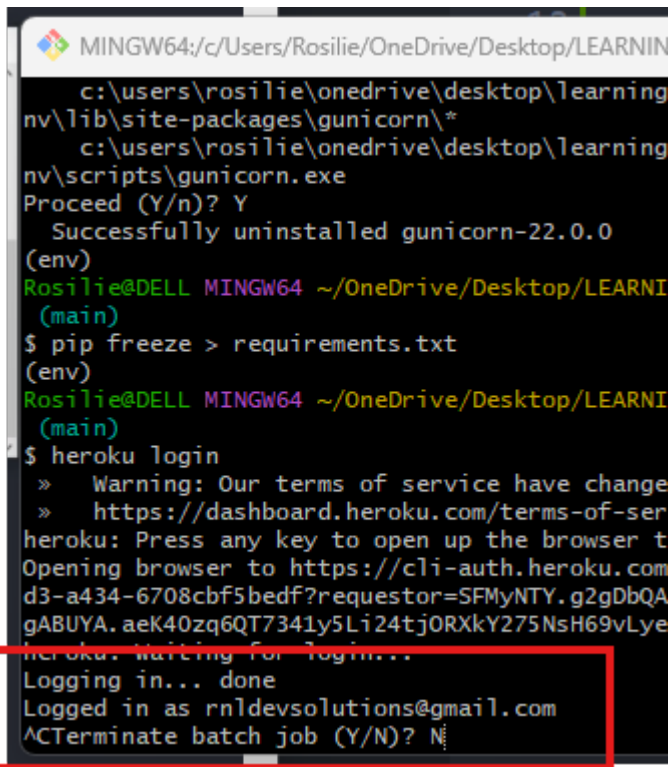
11. This should open the HEROKU CLI PAGE:

The screenshot displays a web browser window with the URL `https://cli-auth.heroku.com/auth/cli/browser/...`. A cookie consent banner is visible at the top. The main content area features the Heroku logo and a white box with the text "Log in to the Heroku CLI" and a purple "Log In" button. In the background, a terminal window shows the execution of `pip freeze > requirements.txt` and `heroku login`. A red box in the terminal highlights the warning message and the URL `https://cli-auth.heroku.com/auth/cli/browser/...` that is opened by the `heroku login` command. The terminal also shows the output of `pip freeze`, listing dependencies like `django==4.2.14` and `whitenoise==6.7.0`.

Click LOGIN. If you were not currently logged in Heroku, you will need to login using your email address and password.



12. Press CTRL+C to terminate from the HEROKU INTERFACE to install GUNICORN. Type 'N'



13. To know who is the logged in user or if you have logged out. Type


```

MINGW64:/c/Users/Rosilie/OneDrive/Desktop/LEARNING DJANGO PROJEC...
(main)
$ heroku login
  » Warning: Our terms of service have changed:
  » https://dashboard.heroku.com/terms-of-service
heroku: Press any key to open up the browser to login or q to exit: d
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/ae63810-05b5-40
d3-a434-6708cbf5bedf?requestor=SFMyNTY.g2gDbQAAAA0yNC4yMDguNDkuMTY2bgYAUL8S7JABY
gABUYA.aeK40zq6QT7341y5Li24tjORXkY275NsH69vLye07Hg
heroku: Waiting for login...
Logging in.. done
Logged in as rn1devsolutions@gmail.com
^CTerminate batch job (Y/N)? N
N

(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
(main)
$ heroku whoami
  » Warning: heroku update available from 7.53.0 to 9.0.0.
rn1devsolutions@gmail.com
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
(main)
$

```

14. Install the 2 packages, GUNICORN and PSYCOG2-BINARY. If you open your DIGITAL NOTEBOOK PROJECTS, these are the packages that were used too since both projects use PostgreSQL.

\$ pip install gunicorn psychopg2-binary

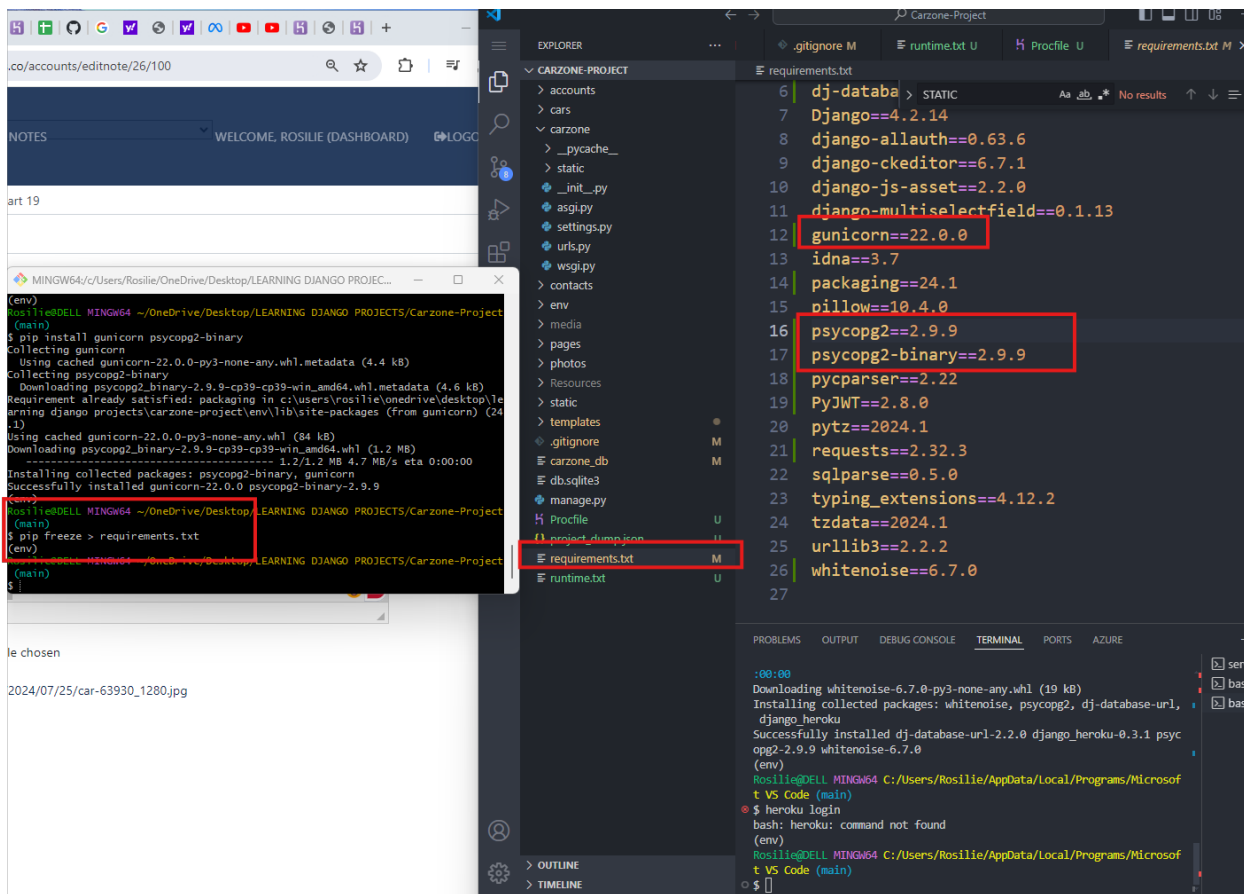
The screenshot shows a Windows file explorer window for the 'Carzone-Project' directory. The file list includes folders like 'accounts', 'cars', 'carzone', 'contacts', 'env', 'media', 'pages', 'photos', 'resources', 'static', 'templates', and files like 'carzone_db', 'db.sqlite3', 'manage.py', 'project_dump.json', and 'runtime'. An overlaid terminal window shows the following commands and output:

```

(main)
$ heroku whoami
  » Warning: heroku update available from 7.53.0 to 9.0.0.
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
(env)
$ pip install gunicorn psychopg2-binary
Collecting gunicorn
  Using cached gunicorn-22.0.0-py3-none-any.whl.metadata (4.4 kB)
Collecting psychopg2-binary
  Downloading psychopg2_binary-2.9.0-cp39-cp39-win_amd64.whl.metadata (4.6 kB)
Requirement already satisfied: packaging in c:/users/rosilie/onedrive/desktop/le
arning django projects/carzone-project/env/lib/site-packages (from gunicorn) (0.4
1.2)
Using cached gunicorn-22.0.0-py3-none-any.whl (84 kB)
Downloading psychopg2_binary-2.9.0-cp39-cp39-win_amd64.whl (1.2 MB)
Successfully installed gunicorn-22.0.0 psychopg2-binary-2.9.0
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
(main)

```

15. With the newly installed packages, update your REQUIREMENTS.TXT using PIP FREEZE.



16. See the next part in Heroku deployment.