Topic: Car Listing: Deployment using Heroku Part 19B

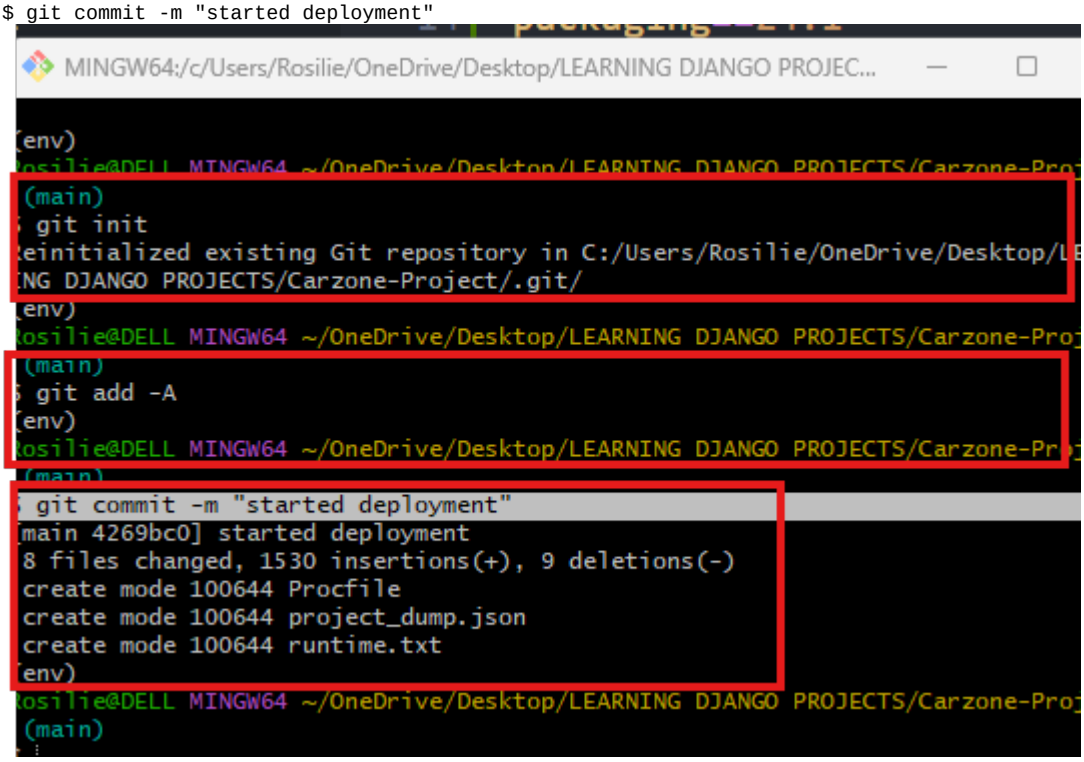
Speaker: | Notebook: Django Project: Car Listing

---

1. This is the SECOND PART in the Django deployment in Heroku.

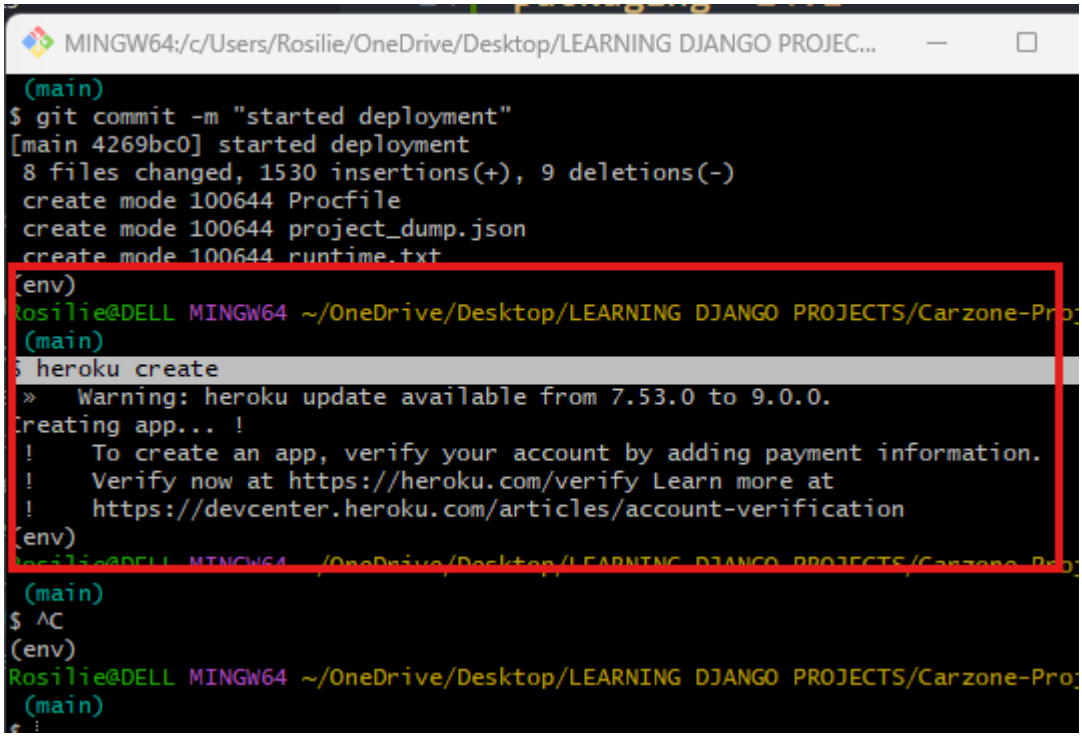
2. The next thing we need to do is use the GIT command to

```
$ git init
$ git add -A
$ git commit -m "started deployment"
```



3. Issue the HEROKU command,

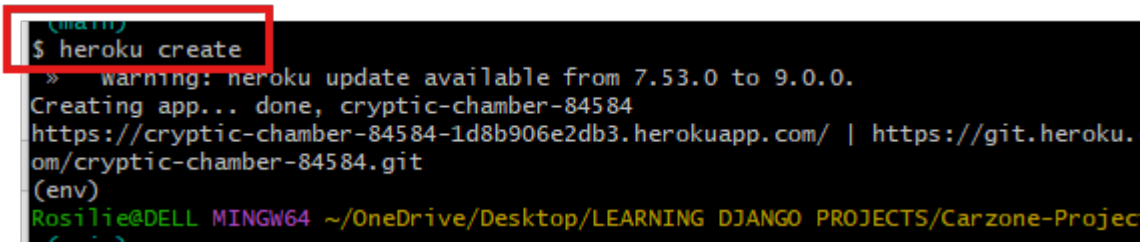
$ heroku create



You have to go back to your browser and in the HEROKU PAGE, ADD A PAYMENT method since HEROKU does NOT provide a free account.

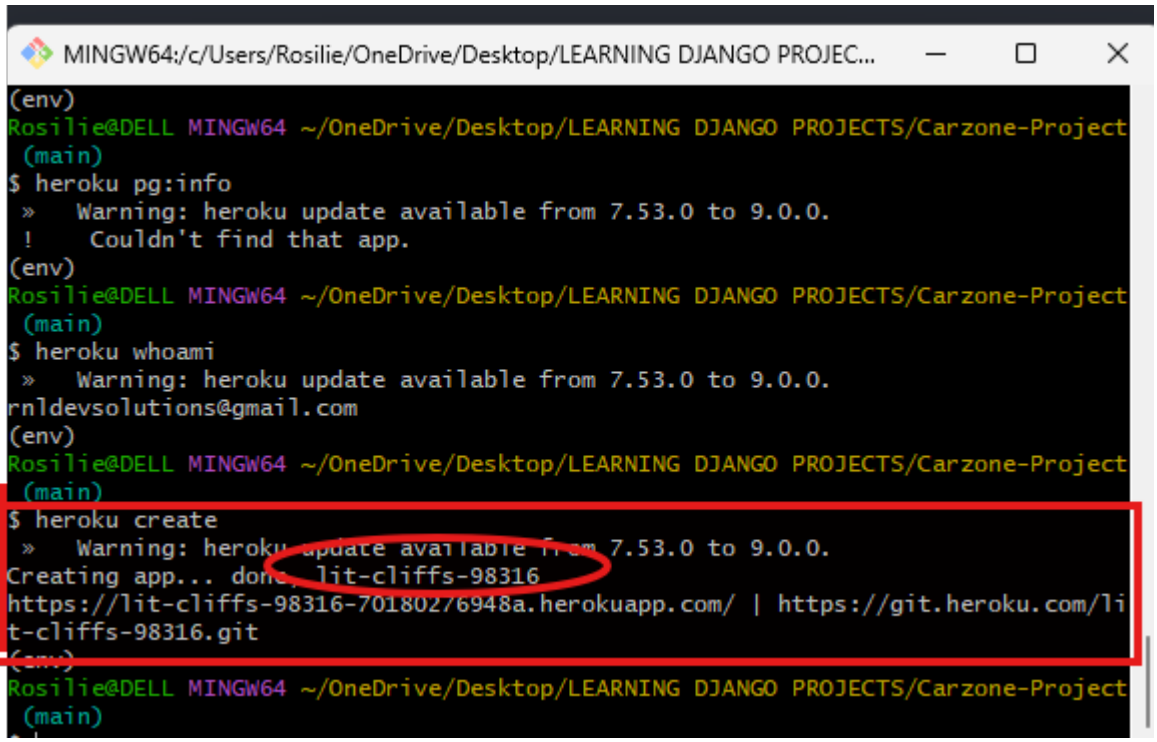
You have subscribed using the ECO DYNOS PLAN for personal projects. If this is not the case anymore, you can upgrade to HIGHER DYNOS PLAN.

After payment, we issued the command again and we get this:



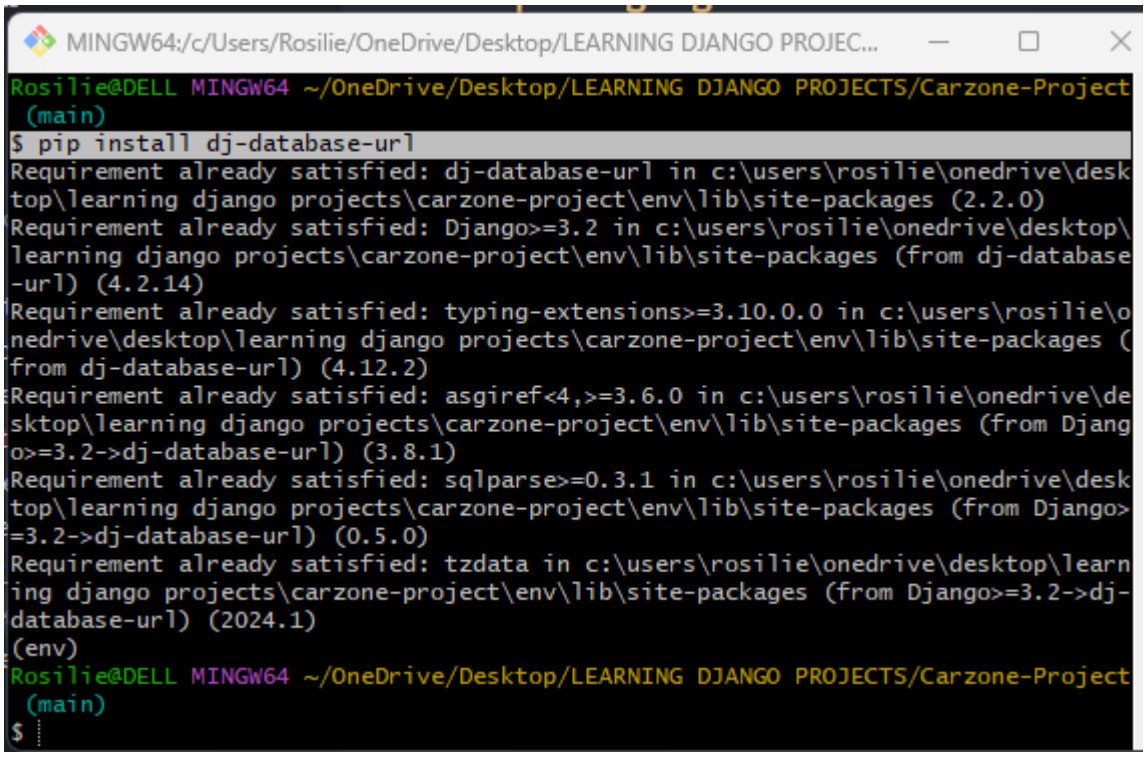
CRYPTIC-CHAMBER-84584 is the random app name if heroku create code has no app-name.

UPDATED: You recreated your app when you destroyed **CRYPTIC-CHAMBER-84584 , this is your new random app name

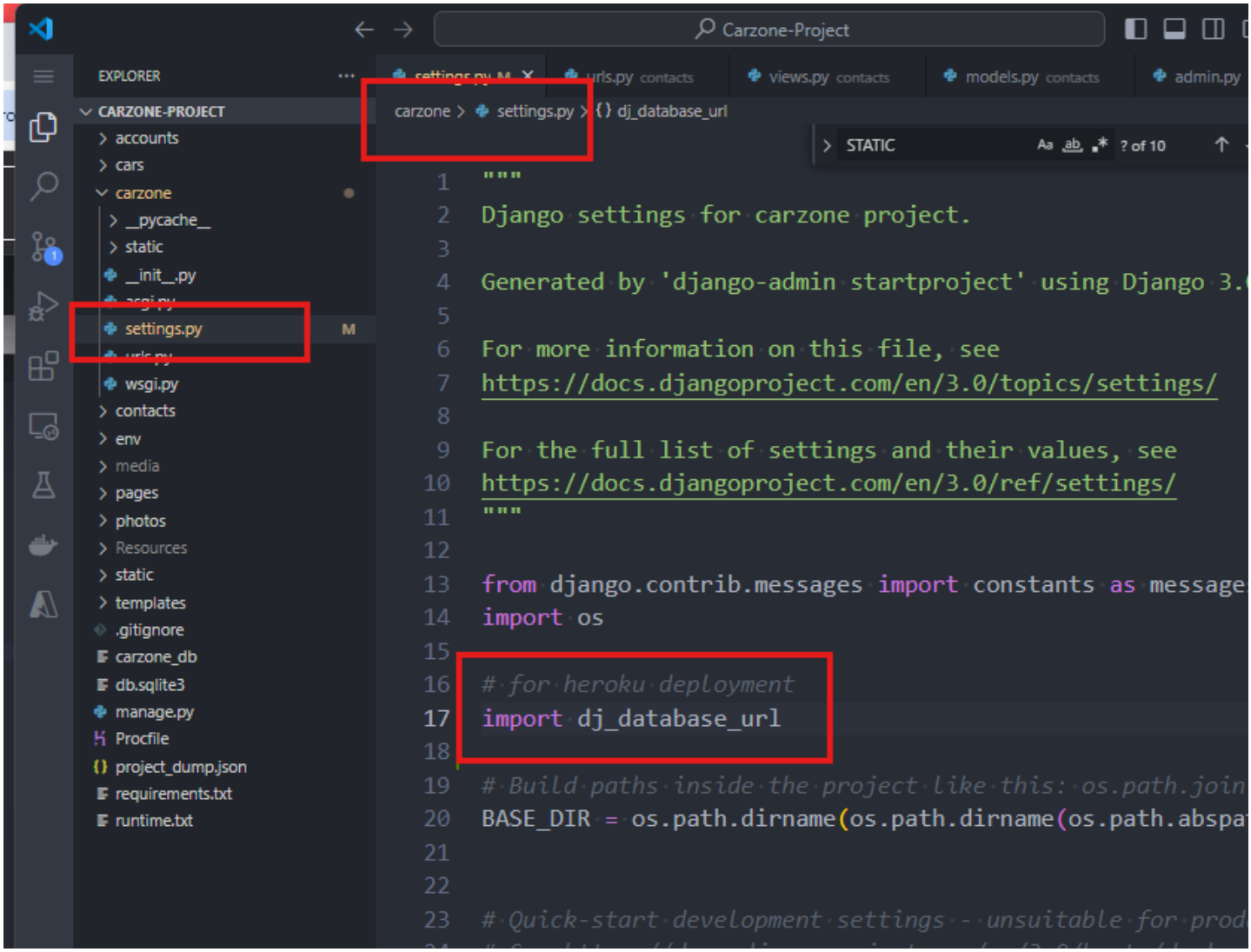


4. Go back to the Gitbash terminal, and issue:

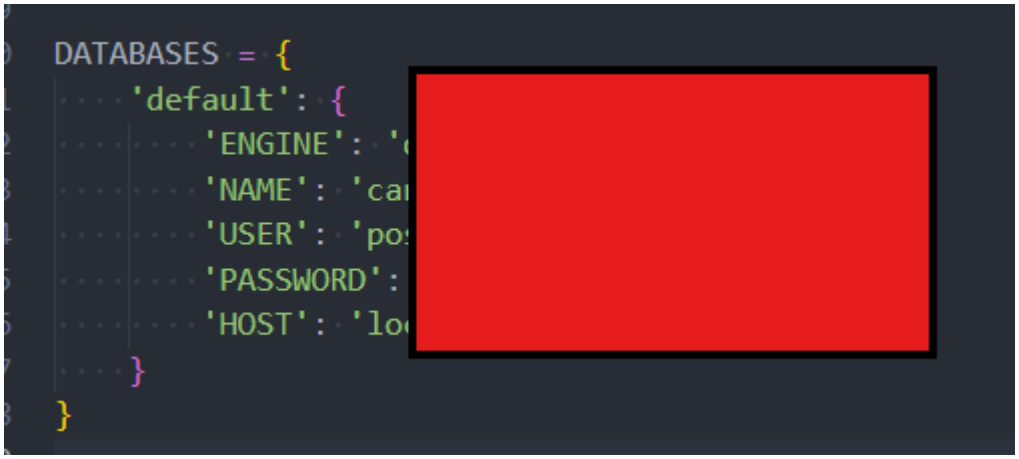
```
$ pip install dj-database-url
```



5. Update the SETTINGS.PY as



Next, comment out or delete the section below in the SETTINGS.PY:



After removing the dtabase block that was used in our localhost, we add this new line:

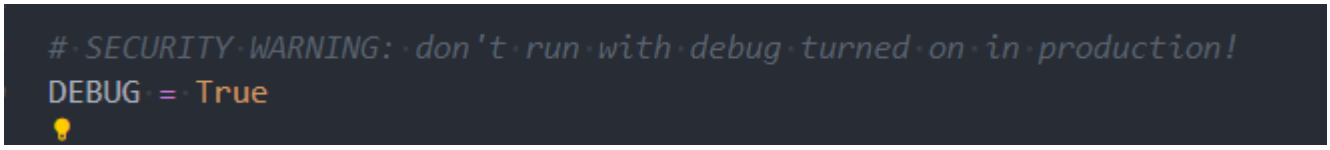
Syntax:

```
DATABASES = {'default':dj_database_url.config(default='postgres://user:password@localhost/dbname') }
```

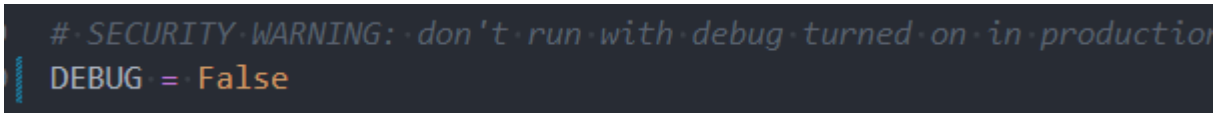
Using the DATABASES line, change it to your own database credentials. Use the details of your commented DATABASES BLOCK to replace the vaule of USER as POSTGRES, PASSWORD='yOUR DB PASSWORD', DBNAME as CARZONE_DB

6. Replace DEBUG=TRUE to DEBUG=FALSE during deployment or production.

FROM:



TO:



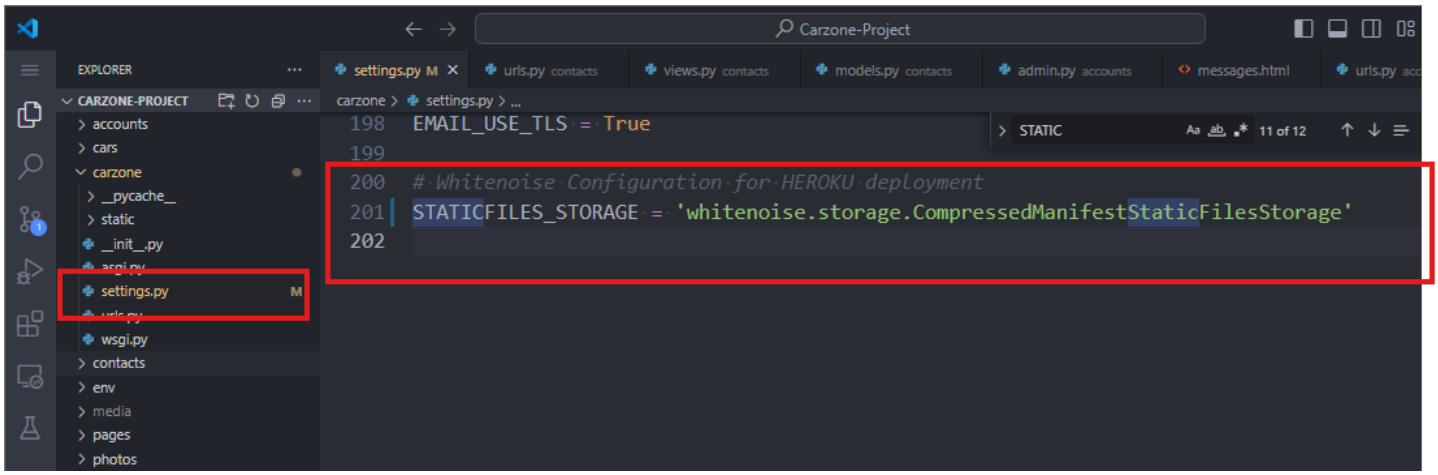
7. Next install, install the new package WHITENOISE

```
$ pip install whitenoise
```

```
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Proje
 (main)
$ pip install whitenoise
Requirement already satisfied: whitenoise in c:\users\rosilie\onedrive\desktop
earning django projects\carzone-project\env\lib\site-packages (6.7.0)
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Proje
 (main)
```

8. Update SETTINGS.PY for WHITENOISE PACKAGE CONFIGURATION.

```
67  MIDDLEWARE = [
68      'django.middleware.security.SecurityMiddleware',
69      'django.contrib.sessions.middleware.SessionMiddleware',
70      'django.middleware.common.CommonMiddleware',
71      'django.middleware.csrf.CsrfViewMiddleware',
72      'django.contrib.auth.middleware.AuthenticationMiddleware',
73      'django.contrib.messages.middleware.MessageMiddleware',
74      'django.middleware.clickjacking.XFrameOptionsMiddleware',
75      # allauth account middleware for social login
76      'allauth.account.middleware.AccountMiddleware',
77      # for HEROKU deployment
78      'whitenoise.middleware.WhiteNoiseMiddleware',
79
80  ]
```



9. We need to update our Github repository. We issue the commands "GIT ADD -A", "GIT COMMIT -M "COMMENT"" but we CANNOT PUSH THIS TO GITHUB. We should however push this to GITHUB HEROKU. So we issue the command:

TAKE NOTE THAT ONCE YOU CREATE AN APP WITH HEROKU, ALL GIT COMMANDS ARE UPDATING THE HEROKU SERVER AND NOT THE GITHUB SERVER.

The tutorial uses GIT PUSH HEROKU MASTER, but this gives you an error. You have been using MAIN in your GITHUB REPOSITORIES. So with Heroku, we will use MAIN as well.

```
 (main)
$ git push heroku main
Enumerating objects: 13963, done.
Counting objects: 100% (13963/13963), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10396/10396), done.
Writing objects:  15% (2095/13963), 10.01 MiB | 2.08 MiB/s
```

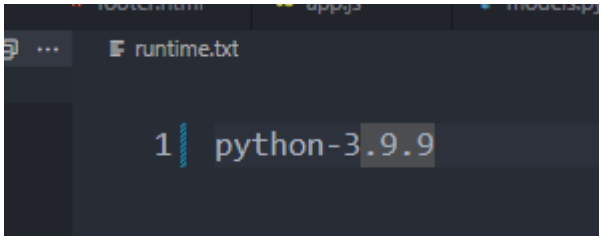
10. You encountered an error message that is similar to the tutorial (tutorial uses Python 3.8.2 for Stack Heroku 18. Your error message is the same but for Python 3.9;9 Stack Heroku 22.

```
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Pro
 (main)
$ git push heroku main
Enumerating objects: 13963, done.
Counting objects: 100% (13963/13963), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10396/10396), done.
Writing objects: 100% (13963/13963), 26.13 MiB | 2.47 MiB/s, done.
Total 13963 (delta 4429), reused 7289 (delta 2023), pack-reused 0
remote: Resolving deltas: 100% (4429/4429), done.
remote: Updated 7697 paths from 209f505
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Building on the Heroku-22 stack
remote: -----> Determining which buildpack to use for this app
remote: -----> Python app detected
remote: -----> Using Python version specified in runtime.txt
remote:  !
remote:  !     Requested runtime 'Python-3.9.9' is not available for this st
(heroku-22).
remote:  !
remote:  !     For a list of the supported Python versions, see:
remote:  !     https://devcenter.heroku.com/articles/python-support#supporte
ntimes
remote:  !
remote:  !     Push rejected, failed to compile Python app.
remote:
remote:  !     Push failed
remote: Verifying deploy...
remote:
remote: !       Push rejected to cryptic-chamber-84584.
remote:
To https://git.heroku.com/cryptic-chamber-84584.git
 ! [remote rejected] main -> main (pre-receive hook declined)
error: failed to push some refs to 'https://git.heroku.com/cryptic-chamber-8
.git'
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Pro
 (main)
$ ^C
```

To correct this, update your RUNTIME.TXT and make Python to small letters.

FROM:

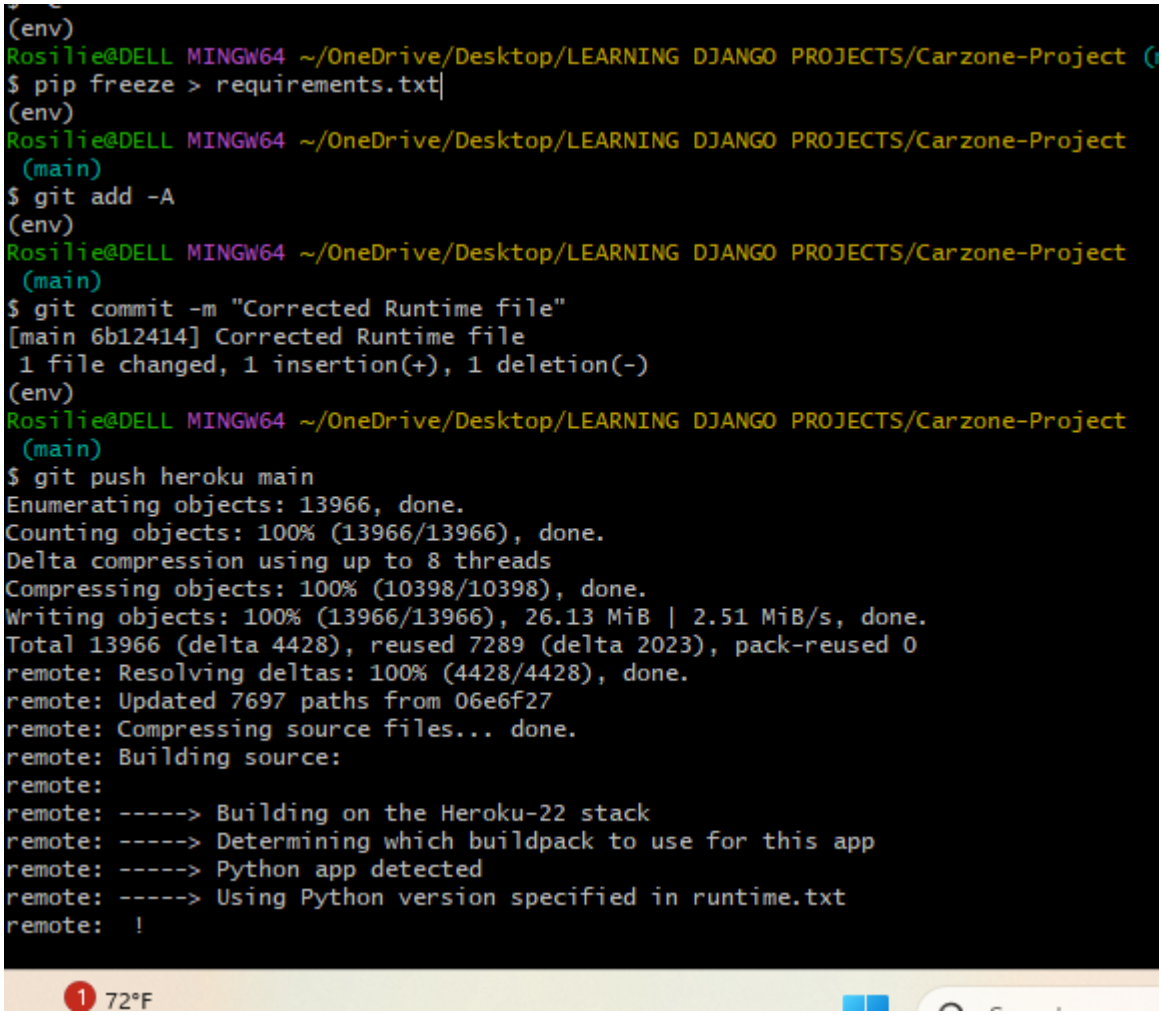
TO:

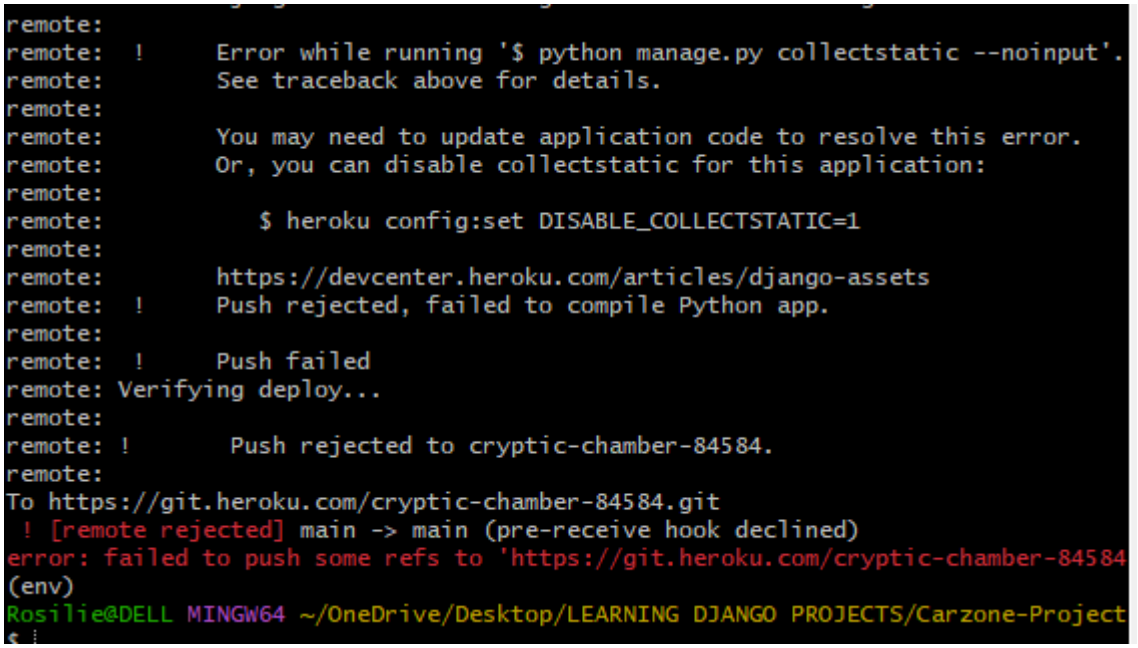


Update your REQUIREMENTS.TXT to make sure that you have the newly installed packages added (DJ_DJANGO_URL,WHITENOISE,GUNICORN,PSYCOPG2-BINARY)

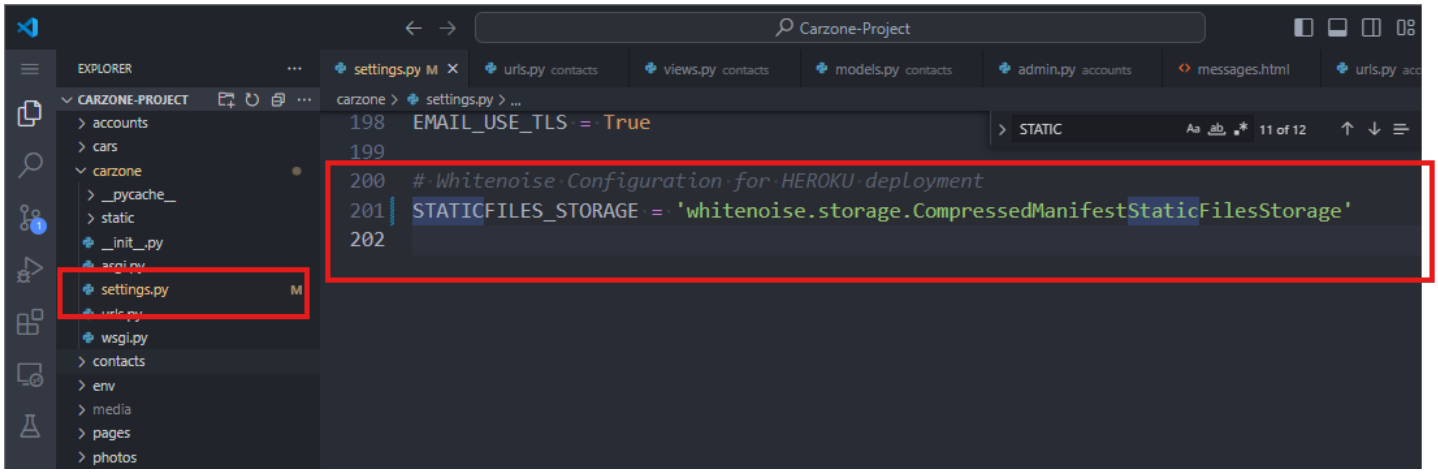
```
$ pip freeze > requirements.txt
```

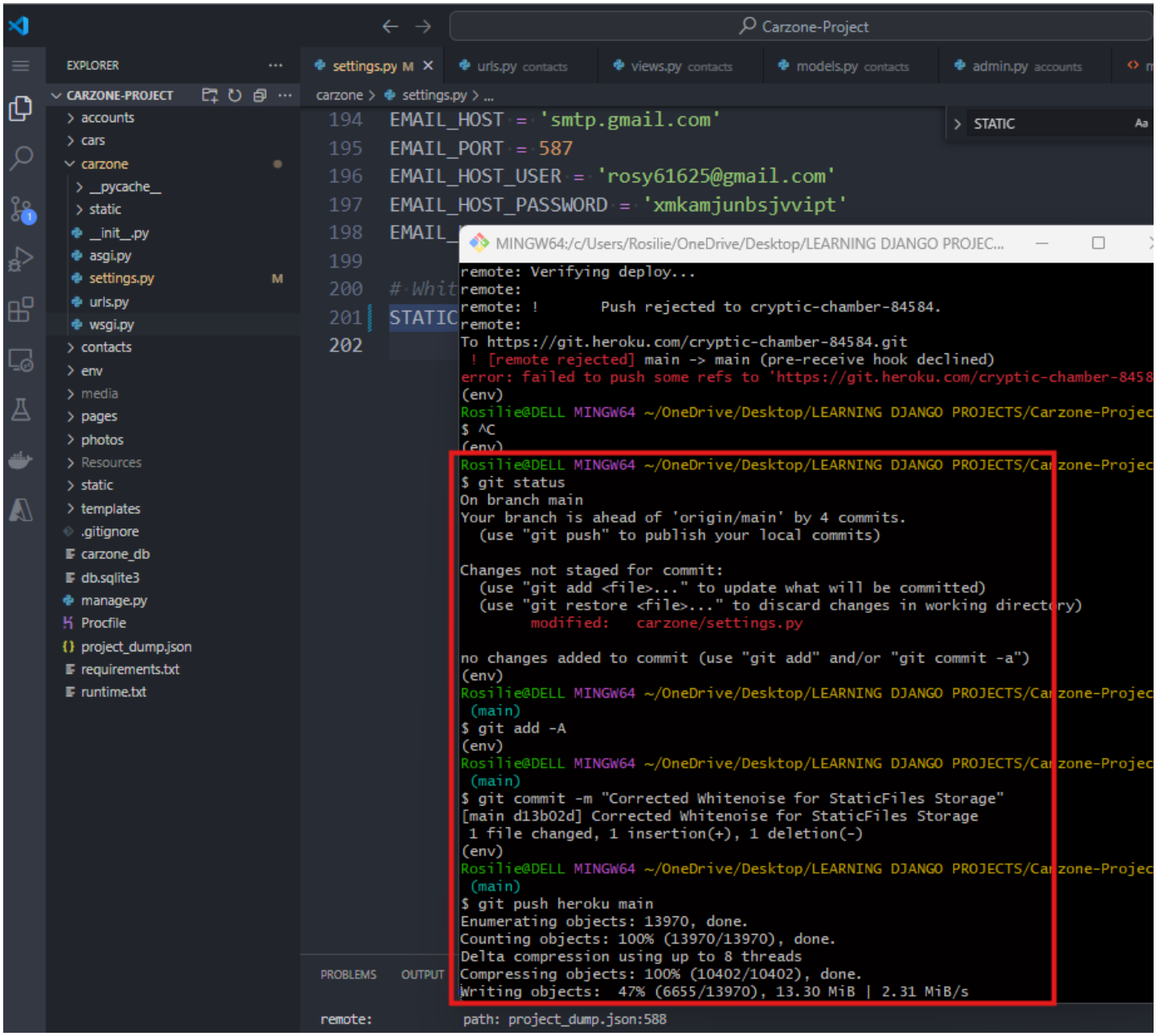
11. Use GIT codes to push our changes to HEROKU SERVER. However, you will still encounter errors.





This error was caused by the misspell you have on : We need to PUSH OUR CHANGES TO HEROKU SERVER AGAIN





12. Modifications made:

13. We encountered CONNECTION REFUSED ERROR,

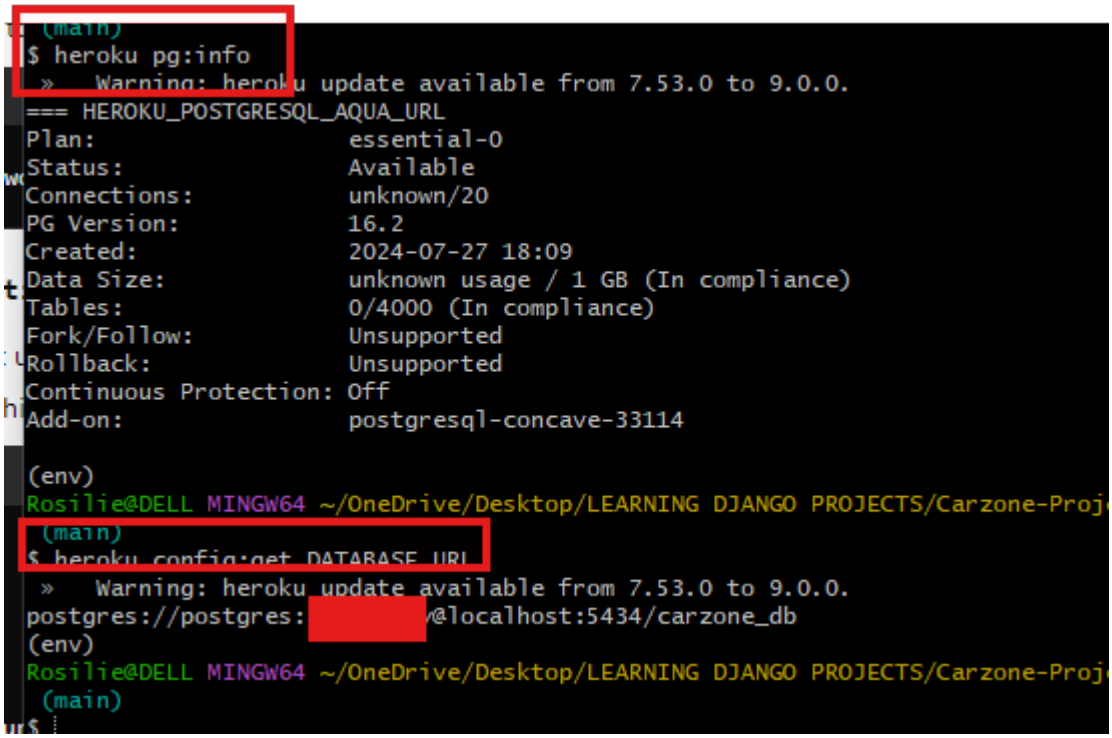
```
MINGW64:/c/Users/Rosilie/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
remote:     return func(*args, **kwargs)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/backends/postgresql/base.py", line 275, in get_new_connection
remote:     connection = self.Database.connect(**conn_params)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/psycopg2/__init__.py", line 122, in connect
remote:     conn = _connect(dsn, connection_factory=connection_factory, **kwasync)
remote: psycopg2.OperationalError: connection to server at "localhost" (127.0.0.1), port 5434 failed: Connection refused
remote:         Is the server running on that host and accepting TCP/IP connections?
remote:
remote:
remote: The above exception was the direct cause of the following exception:
remote:
remote: Traceback (most recent call last):
remote:   File "/app/manage.py", line 21, in <module>
remote:     main()
remote:   File "/app/manage.py", line 17, in main
remote:     execute_from_command_line(sys.argv)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/core/management/__init__.py", line 442, in execute_from_command_line
remote:     utility.execute()
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/core/management/__init__.py", line 436, in execute
remote:     self.fetch_command(subcommand).run_from_argv(self.argv)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/core/management/base.py", line 412, in run_from_argv
remote:     self.execute(*args, **cmd_options)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/core/management/base.py", line 458, in execute
remote:     output = self.handle(*args, **options)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/core/management/base.py", line 106, in wrapper
remote:     res = handle_func(*args, **kwargs)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/core/management/commands/migrate.py", line 117, in handle
remote:     executor = MigrationExecutor(connection, self.migration_progress_callback)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/migrations/executor.py", line 18, in __init__
remote:     self.loader = MigrationLoader(self.connection)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/migrations/loader.py", line 58, in __init__
remote:     self.build_graph()
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/migrations/loader.py", line 235, in build_graph
remote:     self.applied_migrations = recorder.applied_migrations()
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/migrations/recorder.py", line 81, in applied_migrations
remote:     if self.has_table():
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/migrations/recorder.py", line 57, in has_table
remote:     with self.connection.cursor() as cursor:
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/utils/asyncio.py", line 26, in inner
remote:     return func(*args, **kwargs)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/backends/base/base.py", line 330, in cursor
remote:     return self._cursor()
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/backends/base/base.py", line 306, in _cursor
remote:     self.ensure_connection()
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/utils/asyncio.py", line 26, in inner
remote:     return func(*args, **kwargs)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/backends/base/base.py", line 289, in ensure_connection
remote:     self.connect()
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/utils.py", line 91, in __exit__
remote:     raise dj_exc_value.with_traceback(traceback) from exc_value
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/backends/base/base.py", line 289, in ensure_connection
remote:     self.connect()
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/utils/asyncio.py", line 26, in inner
remote:     return func(*args, **kwargs)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/backends/base/base.py", line 270, in connect
remote:     self.connection = self.get_new_connection(conn_params)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/utils/asyncio.py", line 26, in inner
remote:     return func(*args, **kwargs)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/django/db/backends/postgresql/base.py", line 275, in get_new_connection
remote:     connection = self.Database.connect(**conn_params)
remote:   File "/app/.heroku/python/lib/python3.9/site-packages/psycopg2/__init__.py", line 122, in connect
remote:     conn = _connect(dsn, connection_factory=connection_factory, **kwasync)
remote: django.db.utils.OperationalError: connection to server at "localhost" (127.0.0.1), port 5434 failed: Connection refused
remote:         Is the server running on that host and accepting TCP/IP connections?
remote:
remote: Waiting for release... failed.
To https://git.heroku.com/cryptic-chamber-84584.git
   83658a7..8003284  main -> main
(env)
```

We install the the HEROKU POSTGRES ADDON

`heroku addons:create heroku-postgresql`

```
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
$ heroku addons:create heroku-postgresql
 »   Warning: heroku update available from 7.53.0 to 9.0.0.
Creating heroku-postgresql on cryptic-chamber-84584... $5/month
Database should be available soon
postgresql-concave-33114 is being created in the background. The app will restar
t when complete...
Use heroku addons:info postgresql-concave-33114 to check creation progress
Use heroku addons:docs heroku-postgresql to view documentation
(env)
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/LEARNING DJANGO PROJECTS/Carzone-Project
 (main)
$
```

14. After the POSTGRES ADD-ON code was run we take the Database Info and its DATABASE_URL

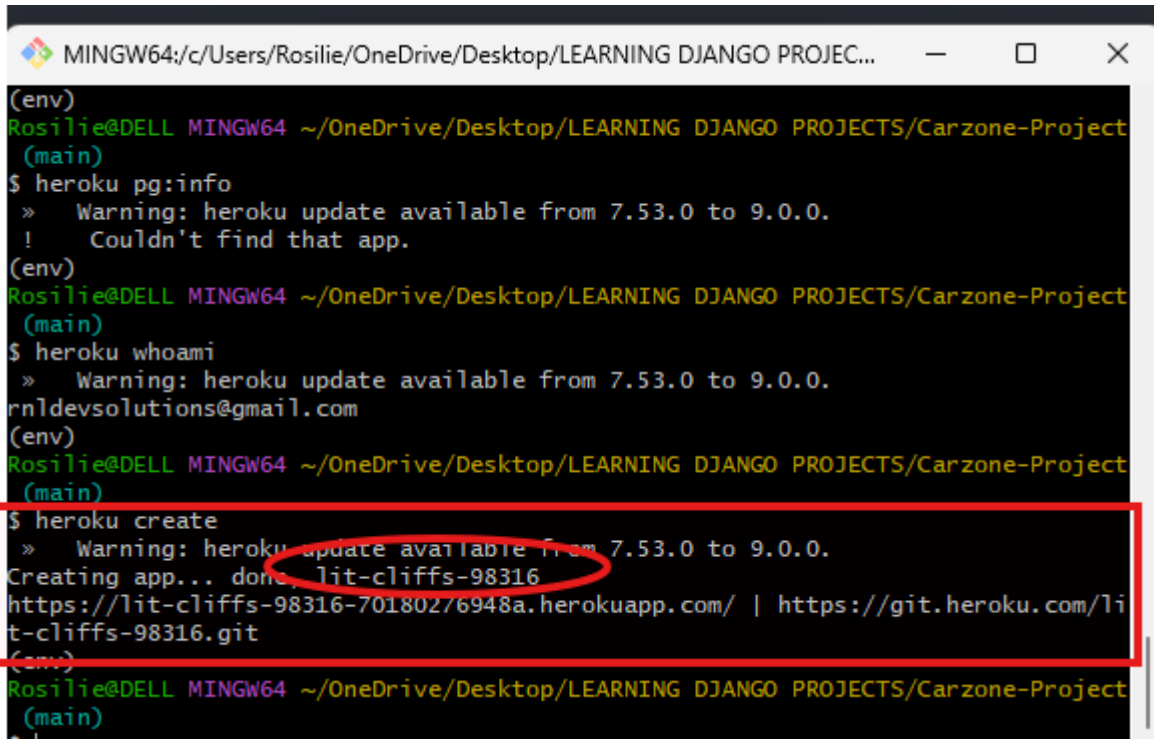


The hidden block is your database password.

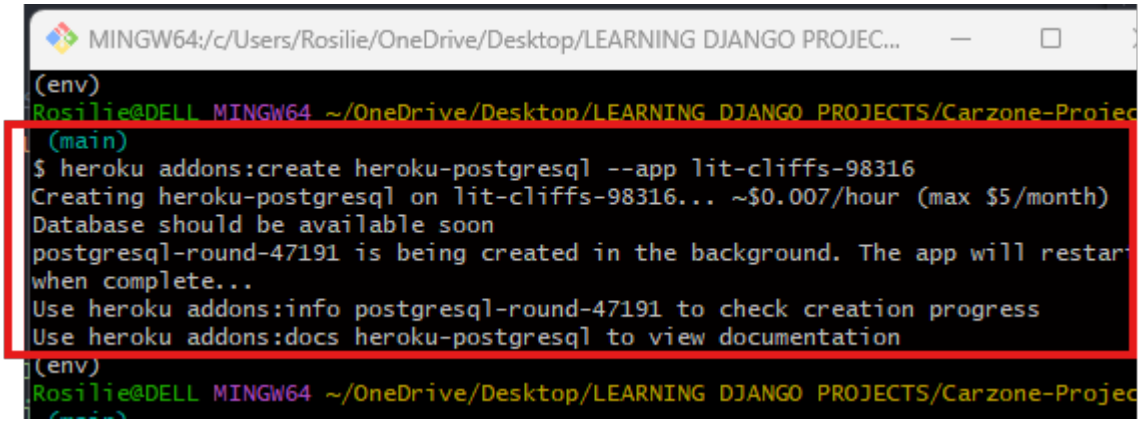
UPDATED: All the screenshots here are from the first app that was causing the error.

We redo our deployment by creating a new one from heroku CLI.

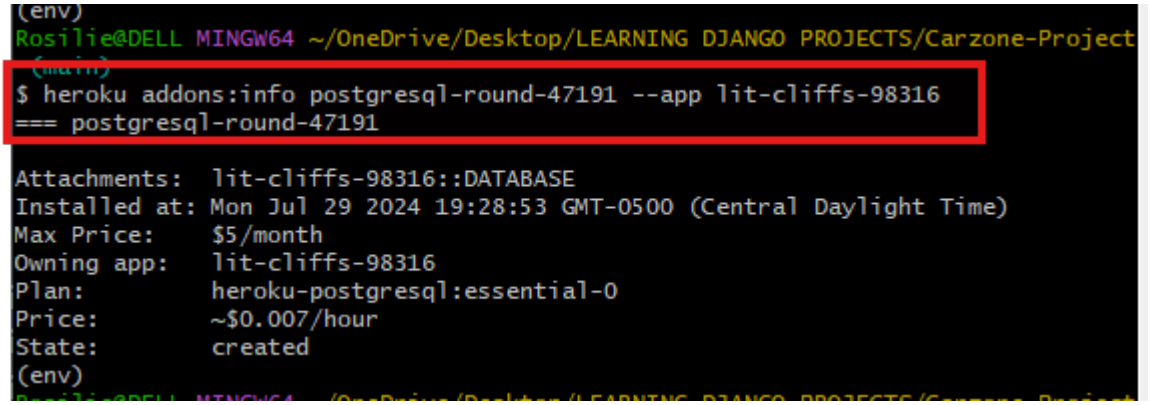
1. Create a new heroku app (this can be done using the browser too):



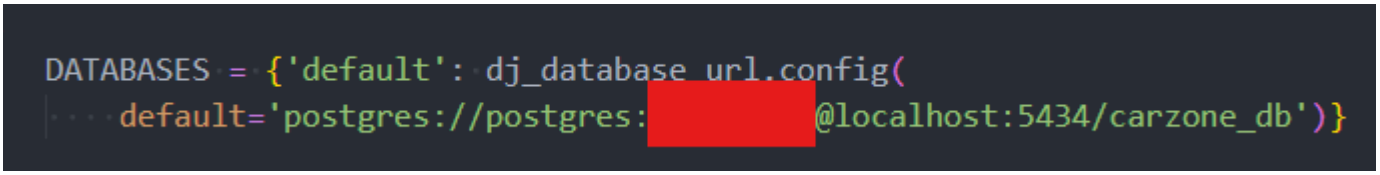
2. We need to have a HEROKU ADD-ON: POSTGRES, Since we had deleted our first app, heroku by default it pointing to this, so we issued explicitly the app's name,



3. To see the creation of his new add-on, we issue:



4. Now, we need to update our SETTINGS.PY, so that it has the DATABASES credential:

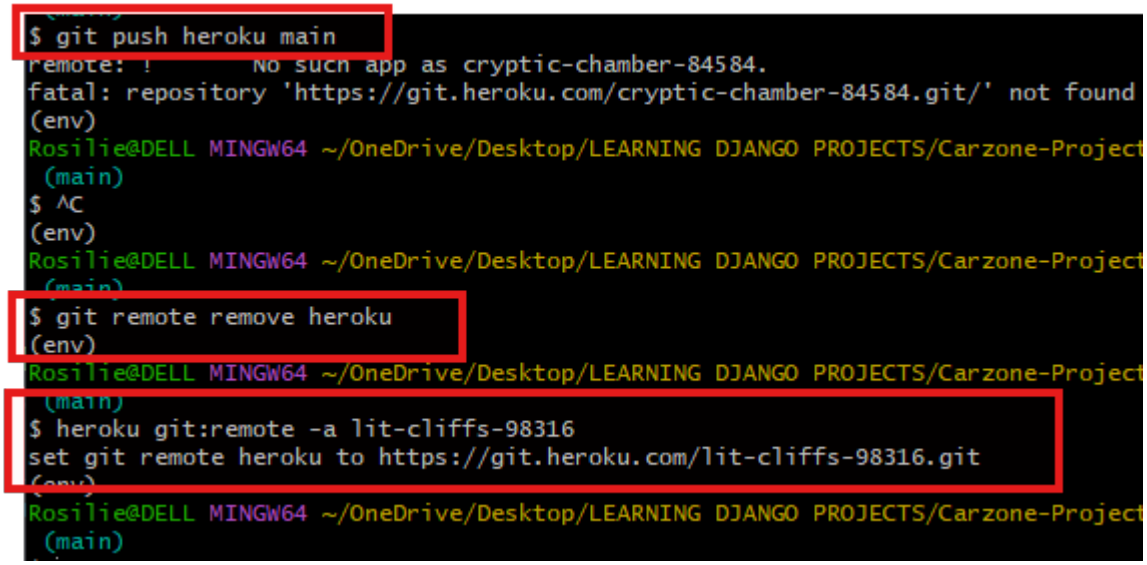


The hidden block is your database password.

5. You need to push your files/folder to HEROKU MAIN, we issue the command 'GIT PUSH HEROKU MAIN' but this is causing as an error because of the destroyed app.

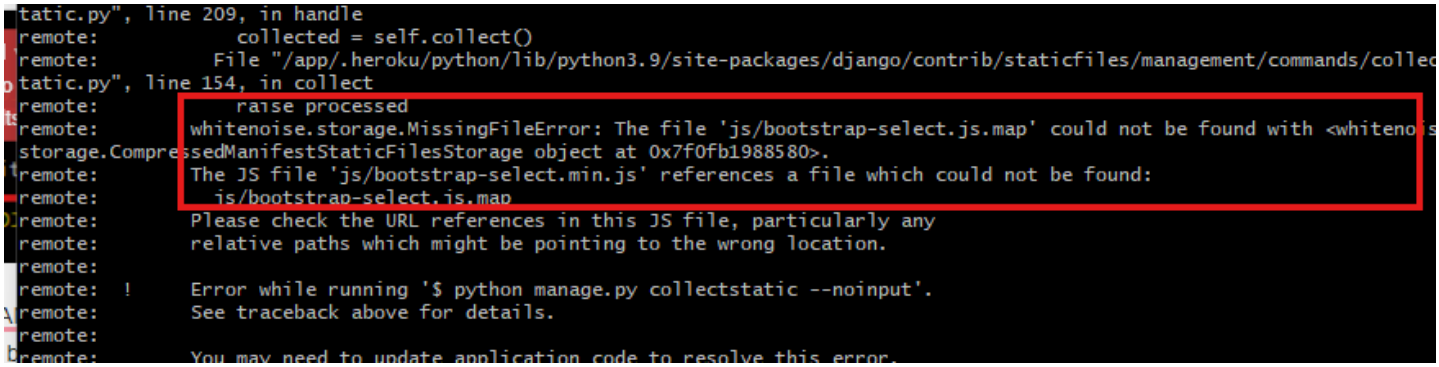
GIT REMOTE REMOVE HEROKU (to remove the remote link to our old app)

HEROKU GIT: REMOTE -A LIT-CLIFFS-98316 (to connect to our new app)



6. UNFORTUNATELY, WE STOPPED BECAUSE HEROKU CANT SEEM TO IGNORE ALL MISSING BOOTSTRAP FILES. I tried to copy the the missing files from the Bootstrap website. but the error messages persist. We will work on deploying to Heroku again in the future.

UPDATE: Almost a week since my lat HEROKU SERVER PUSH, I ran my server again and get this message:



I used AI Copilot to give me solutions and gave this:

Copilot

Thanks for sharing your `MIDDLEWARE` settings. Everything looks correctly configured for Heroku deployment with WhiteNoise.

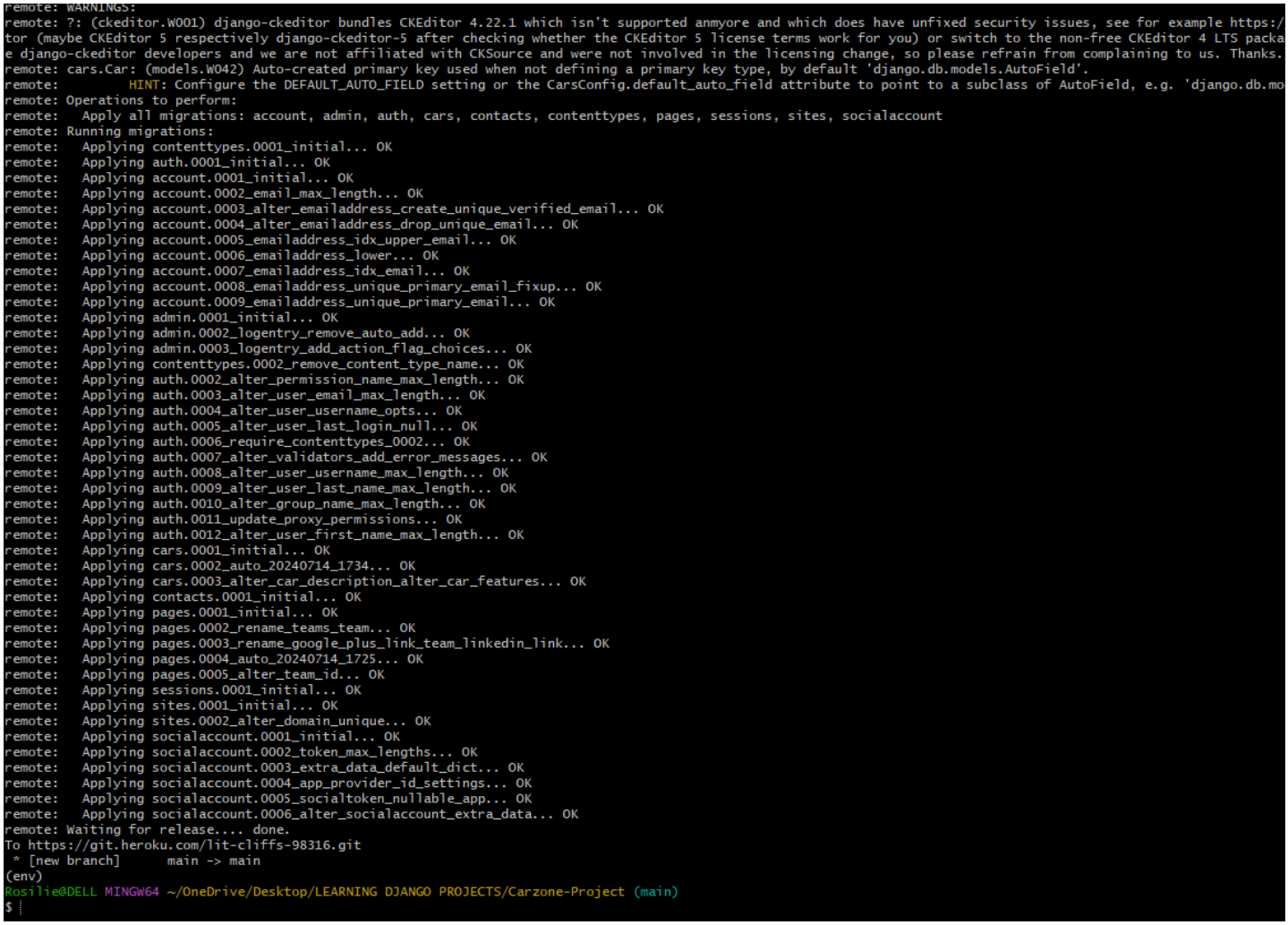
Here are a few additional steps to try:

1. **Ensure All Static Files Are Present**: Double-check that all necessary static files, including `js/bootstrap-select.js.map`, are in your `carzone/static` directory.
2. **Create an Empty Map File**: If the `.map` file is not essential, create an empty `js/bootstrap-select.js.map` file in your `carzone/static/js` directory to bypass the error.
3. **Check File Paths**: Verify that the paths in your `js/bootstrap-select.min.js` file are correct and point to the right locations.
4. **Run Collectstatic Locally**: Try running the `collectstatic` command locally to see if the issue persists. This can help identify if the problem is specific to the Heroku environment.

```
$ python manage.py collectstatic --noinput
```

5. **Update Bootstrap Select**: Consider updating the Bootstrap Select library to the latest version to ensure all files are included.
6. **Review Heroku Logs**:

Instead of writing an empty file of bootstrap-select.js.map, I searched for the file and copied it to CARZONE\STATIC\JS and push my changes again. Luckily, I get my migrations to run! Yahoo!



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