### Exercise 2.8: Deploying a Django Project

#### Reflection Questions

1. **Explain how you can use CSS and JavaScript in your Django web application.**  
   You can integrate CSS for styling and JavaScript for interactivity.
2. **In your own words, explain the steps you’d need to take to deploy your Django web application.**
3. Sign up for a Heroku account
4. Install the Heroku Command Line Interface (CLI) on your machine.
5. Open your terminal and log in to Heroku using the command: `heroku login`
6. In the project directory, create a new Heroku app with: `heroku create`
7. Add the Heroku Postgres add-on for the production database: ` heroku addons:create heroku-postgresql:hobby-dev`
8. Update Database Configuration:

a. In your Heroku app dashboard, navigate to "Settings" and click on "Reveal Config Vars."

b. Add the necessary environment variables, such as DATABASE\_URL.

1. Ensure your requirements.txt file includes any additional dependencies required for deployment.
2. Create a file named Procfile in your project root directory and specify the command to run your app: `web: gunicorn your\_project\_name.wsgi`
3. Commit changes to Github
4. Commit changes to Heroku: `git push heroku main`
5. Run migrations: ` heroku run python manage.py migrate`
6. Open the app either through the Heroku UI or by running `heroku open`
7. Check Heroku logs for any errors by running: `heroku logs --tail`
8. (Optional) Connect with a few Django web developers through LinkedIn or any other network. Ask them for their tips on creating a portfolio to showcase Python programming and Django skills. Think about which tips could help you improve your portfolio.
9. ***You’ve now finished Achievement 2 and, with it, the whole course! Take a moment to reflect on your learning:***
10. **What went well during this Achievement?**

I was able to make the templates easy once I understood them.

1. **What’s something you’re proud of?**

I am very proud of how the project turned out, I think it is user friendly and looks great.

1. **What was the most challenging aspect of this Achievement?**

Deployment was a challenge. But after some research and reworking it, I was able to get it resolved.

1. **Did this Achievement meet your expectations? Did it give you the confidence to start working with your new Django skills?**

I wasn’t sure what to expect with Django, but this project did help me wrap my head around Django and I did learn a lot from it.