Exercise 2.8: Deploying a Django Project

Learning Goals

Enhance user experience and look and feel of your web
application using CSS and JS
Deploy your Django web application on a web server
Curate project deliverables for your portfolio

Reflection Questions

1. **Explain how you can use CSS and JavaScript in your Django web application.**

CSS can be used in Django web applications through inline style. This is where the style attritbute is inside the HTML elements. It can also be used through external CSS using a stylesheet. In my particular application, a CSS file can be put directly into the src folder. This file then needs to be linked to the HTML template (e.g <link rel="stylesheet" href="static/style.css"> in the <head> tag).

JavaScript can be added to a web application by creating a JS file containing the desired script on the project level. In the HTML file where JS is to be used, the script should be loaded (e.g src="{% static 'sales/ home.js' %}"   ).

2. **In your own words, explain the steps you'd need to take to deploy your Django web application.**

Three of the major components that need to be included when deploying your Django web application include:
1. Having your code on an online repository e.g Github

2. Updating your Django application for hosting
- configure setting for productions e.g 'ALLOWED_HOSTS', 'DEBUG'

- set up a database
- collect static files 'python manage.py collectstatic'

3. Configuring the hosting service client and server (e.g Heroku)
- choose provider and configure the server
- deploy my code (push to Git)
- set up the database (python manage.py migrate)
- collect static files (python manage.py collectstatic
- test to see if the deployment has worked

3. **(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.**

4. **You've now finished Achievement 2 and, with it, the whole course! Take a moment to reflect on your learning:**
   a. **What went well during this Achievement?**

Overall, I think my end result of my application went well during this Achievement. Yes, there are many areas that can be improve. However, as it was my first time using Django, I think it went pretty well.

   a. **What's something you're proud of?**

I am proud of my overall understanding of Django. I enjoyed Achievement 2 more than Achievement 1, and feel motivated to continue to improve my skills.

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

I found exercise 2.7 a challenging aspect of this Achievement. This task was when you needed to create a search element so users can search for recipes according to their name or ingredient.

   a. **Did this Achievement meet your expectations? Did it**

give you the confidence to start working with your new Django skills?

This achievement has given me some confidence to go forward and start working with Django. I enjoyed learning about Django and am excited to improve my skills further.

Well done—you've now completed the Learning Journal for the whole course.