Exercise 11.2: Running FOSSology in a container locally

Extra Credit

Doing this requires some familiarity with running **docker** containers. If you already have this knowledge the exercise is easy. Otherwise you can follow the instructions to install docker for your system to do so, and then follow the instructions below from the **FOSSology** project.

1. If you are on a **Linux** distribution, and you do not already have **docker** installed, this is probably as simple as:

   ```
   $ sudo yum install docker
   $ sudo zypper install docker
   $ sudo apt install docker.io
   ```

   picking the right command for your system.

2. You will need to start **docker** if it is not already running with:

   ```
   $ sudo systemctl start docker
   ```

3. Navigate to https://hub.docker.com/r/fossology/fossology/ and read the instructions and requirements there.

4. Run the command:

   ```
   $ sudo docker pull fossology/fossology
   ```

   to download the image.

5. Start running the container with:

   ```
   $ sudo docker run -p 8081:80 fossology/fossology
   ```

   To run things locally with the browser interface you will need a web server running. On most **Linux** systems this will be **Apache** (**httpd**). If this is not already installed:

6. ```
   $ sudo yum install httpd
   $ sudo apt install apache2
   $ sudo zypper install httpd
   ```

   picking the right command for your system.

   Start the web server with the appropriate command:

   ```
   $ sudo systemctl start httpd
   $ sudo systemctl start apache2
   ```

7. Now point your browser to http://localhost:8081/repo. If you have succeeded so far, you will see the same interface you saw on the online testing platform.

8. When you are done you will probably want to issue a `docker stop ...` command to kill your session.

Please Note

Depending on how your system is configured, you may not need to use **sudo** on the **docker** commands.
   ```