IMPORTANT!!! BEFORE SETUP:

- Make sure Docker Desktop is installed on your machine.
- Additionally, if you are not on a Linux machine, make sure some Linux terminal (i.e. WSL) is installed on your machine as well.

1. Create destination folder:
    - Create a folder somewhere easily accessible (i.e. on your Desktop) and name it something relevant/memorable.
    - This repository will be referred to as **yacs_dir** for the rest of this tutorial.

2. Navigate to the repository:
    - Using a Linux terminal (i.e. WSL), navigate to the **yacs_dir** directory.

3. Cloning the repository:
    - Type '**git clone https://github.com/maggietrebilcock/yacs.git**' and hit enter. This will clone the repository onto your machine in the specific folder.

4. Navigate into the cloned repository:
    - Type '**cd yacs**' into the terminal.

5. Create the Docker container for the YACS app:
    - Type '**docker compose -p new_yacs up -d**' into the terminal.

6. Navigate to the frontend folder:
    - Type '**cd frontend**' into the terminal.

7. Installing NVM:
   For non-Windows users:
    - Type '**curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.7/install.sh | bash**' into the terminal.

   For Windows users:
    - Click this link to go to the GitHub for the NVM version for Windows: https://github.com/coreybutler/nvm-windows/releases/latest
    - Download either nvm-setup.zip or nvm-setup.exe and run the installer (It's easier to just download the .exe).

8. Reload bash config:
    - Type '**source ~/.bashrc**' into the terminal.

9. Install/Check For NVM v20:
    - Type '**nvm install 20**' into the terminal. This will either install NVM v20 if it is not installed or display a message stating it is already installed, in which case it will also show a message stating that v20 is now the NVM version being used.
    - If the 'Now using' message is not displayed, after the installation, type '**nvm use 20**' into the terminal. The message should now display and confirm that v20 is being used.

10. Install NPM:
    - Type '**npm install**' into the terminal.
    - It is worth noting a few things:
        - First, this may take a few minutes to fully install. This is normal.
        - Second, you may see warning messages appear as the installation happens. This is also normal, and you do not need to do anything to fix these warnings.
        - Third, you may see a number of vulnerabilities listed after the installation finishes. This is expected. There is a way to remove them, but it is NOT recommended, as it may affect the package.json file. Leave the vulnerabilities as they are.

11. Testing Your Installation/Setup:
    - Open Docker Desktop
    - Navigate to the containers tab and find the **new_yacs** container
    - Click the dropdown arrow on the left side. You should now see all of the components of the container, namely **db-1**, **frontend-1**, and **backend-1**.
    - Click the triangle/play/run button on the right side of the screen under the 'Actions' tab next to the **new_yacs** container. Note that this should be done on the container as a WHOLE, NOT any of the inner components.
    - Confirm that the empty gray circles to the left of the container name and each component light up green. If they do not, review the above steps to ensure they are completed correctly and in the right order.
    - Click the hyperlink under the 'Port(s)' tab next to **backend-1**. This link should take you to **localhost:8000**, which should display the message '{"message":"YACS API is up!"}'. If this does not happen, review the above steps to ensure they are completed correctly and in the right order.

- After a few minutes, click the hyperlink under the ‘Port(s)’ tab next to **frontend-1**. This link should take you to **localhost:3000**, which will show the React App front page for the YACS website.
    - NOTE: it may take a few minutes for everything to set up. If you get an error or 404 message when attempting to view the web app page, wait a few minutes and try again. If this error persists after multiple attempts, review the above steps to ensure they are completed correctly and in the right order.

The YACS.n application is now set up and should be running properly!