# Docker Image

## Exercise 1

Create a Dockerfile for your project.

#### Hints

Note the EXPOSE and CMD settings.

#### Solution

Use VS Code docker extension. Click 'F1' and choose "Docker: Add Docker Files to Workspace...".  
  
  
  
Example for Flask:  
  
  
  
# For more information, please refer to https://aka.ms/vscode-docker-python  
  
FROM python:3.12-slim  
  
  
  
EXPOSE 80  
  
  
  
# Keeps Python from generating .pyc files in the container  
  
ENV PYTHONDONTWRITEBYTECODE=1  
  
  
  
# Turns off buffering for easier container logging  
  
ENV PYTHONUNBUFFERED=1  
  
  
  
# Install pip requirements  
  
COPY requirements.txt .  
  
RUN python -m pip install -r requirements.txt  
  
  
  
WORKDIR /app  
  
COPY . /app  
  
  
  
# Creates1 a non-root user with an explicit UID and adds permission to access the /app folder  
  
# For more info, please refer to https://aka.ms/vscode-docker-python-configure-containers  
  
RUN adduser -u 5678 --disabled-password --gecos "" appuser && chown -R appuser /app  
  
USER appuser  
  
  
  
# During debugging, this entry point will be overridden. For more information, please refer to https://aka.ms/vscode-docker-python-debug  
  
CMD ["flask", "run", "-h", "0.0.0.0", "-p", "80"]

## Exercise 2

Build a docker image for your project.

#### Solution

Use VS Code docker extension. Click 'F1' and choose "Docker: Docker Images: Build Image..."

## Exercise 3

Tag your image with a name

#### Solution

Use VS Code docker extension. Click 'F1' and choose "Docker Images: Tag"