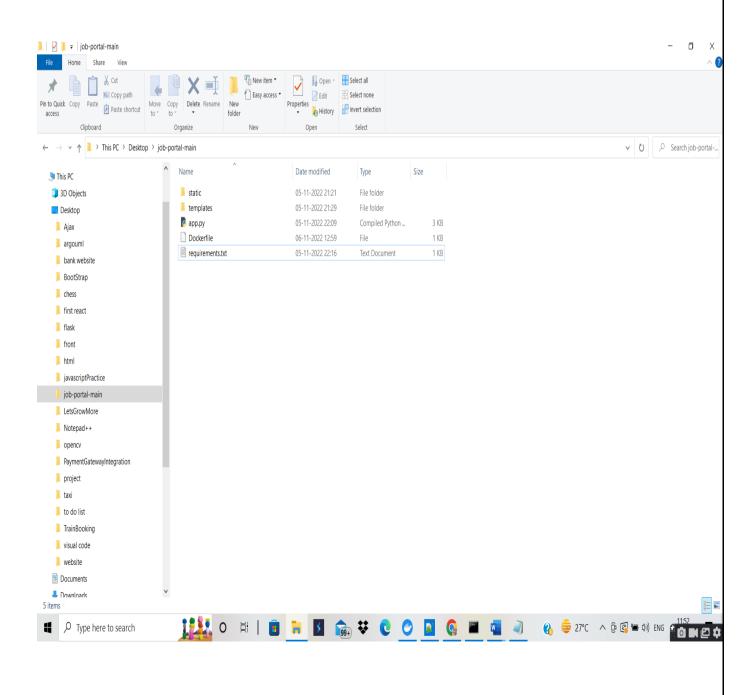
Containerize the App

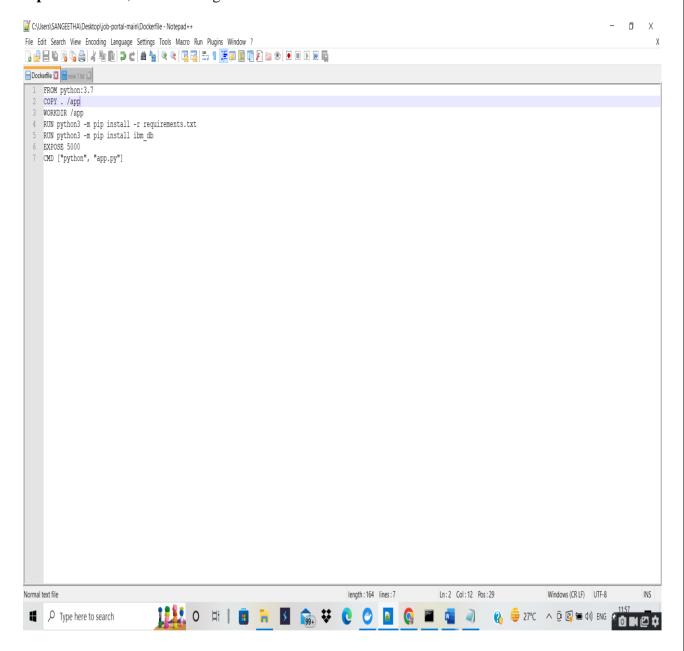
Docker Image Creation for Our Application

Date	15 November 2022
Team ID	PNT2022TMID23050
Project Name	Smart fashion recommender application

Step 1. In our project directory, we created the file named "**Dockerfile**" with no extension-A "Dockerfile" is used to indicate to Docker a base image, the Docker settings you need, and a list of commands you would like to have executed to prepare and start your new container.



Step 2. In the file, the following codes are written



Explanation and breakdown of the above Dockerfile code:

FROM python → Because this Flask application uses Python , we want an environment that supports it and already has it installed.

WORKDIR /app

ADD . /app

COPY requirements.txt/app

→ Now it's time to add the Flask application to the image. For simplicity, copy the application under the /app directory on our Docker Image. WORKDIR is essentially a cd in bash, and COPY copies a certain directory to the provided directory in an image. ADD is another command that does the same thing as COPY, but it also allows you to add a repository from a URL.

RUN python3 -m pip install -r requirements.txt

→ Now that we have our repository copied to the image, we will install all of our dependencies, which is defined in the requirements.txt part of the code.

RUN python3 -m pip install ibm_db

→We used ibm_db as the database so we will install ibm_db

EXPOSE 8080

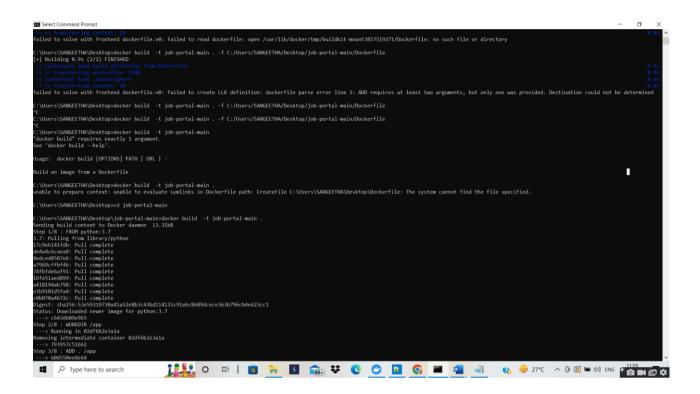
 \rightarrow We want to expose the port(8080) the Flask application runs on, so we use EXPOSE.

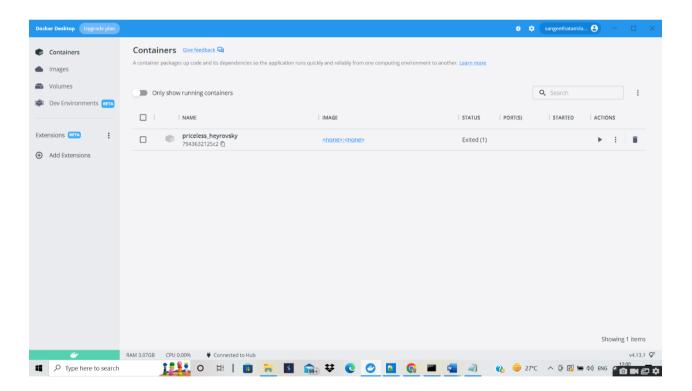
CMD ["python", "app.py"]

→ ENTRYPOINT specifies the entrypoint of your application.

Step 3: Build an image from the Dockerfile

Open the terminal and type this command to build an image from your Dockerfile: docker build -t <image_name>:<tag>





SMART FASHION RECOMMENDER	PNT2022TMID23050	
Step 4: Run your container locally and test	Step 4: Run your container locally and test	
After you build your image successfully, type: docker run -c	After you build your image successfully, type: docker run -d -p 8080:8080 jobport	
This command will create a container that contains all the application code and dependencies		
from the image and runs it locally.		