

**54. a. Create a docker image of simple login form using Flask on port 7000.**

**1.create a app.py**

```
from flask import Flask, render_template, request, redirect, url_for

app = Flask(__name__)

@app.route('/')
def index():
    return '''
    <html>
    <body>
    <h2>Login Form</h2>
    <form action="/login" method="post">
    <label for="username">Username:</label>
    <input type="text" id="username"
name="username"><br><br>
    <label for="password">Password:</label>
    <input type="password" id="password"
name="password"><br><br>
    <input type="submit" value="Login">
    </form>
    </body>
    </html>
    '''

@app.route('/login', methods=['POST'])
def login():
    username = request.form.get('username')
    password = request.form.get('password')
    if username and password :
        return f'<h1>Welcome, {username}!</h1>'
```

else:

return "<h1>Invalid credentials. Please try again.</h1>"

if \_\_name\_\_ == '\_\_main\_\_':

app.run(host='0.0.0.0', port=7000)

## **2.create a dockerfile**

# Use an official Python runtime as a parent image

FROM python:3.9-slim

# Set the working directory in the container

WORKDIR /app

# Copy the current directory contents into the container at /app

COPY . /app

# Install the dependencies

RUN pip install -r requirements.txt

# Expose port 7000

EXPOSE 7000

# Run app.py when the container launches

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

## **3.create requirements.txt**

Flask==2.0.3

Werkzeug==2.0.3

## **4.install flask**

pip install flask

if this is not work,follow following commads

-python3 -m venv venv

-source venv/bin/activate

-pip install Flask

### **5.for the dockerization**

-docker build -t flask-login-app .

-docker run -p 7000:7000 flask-login-app