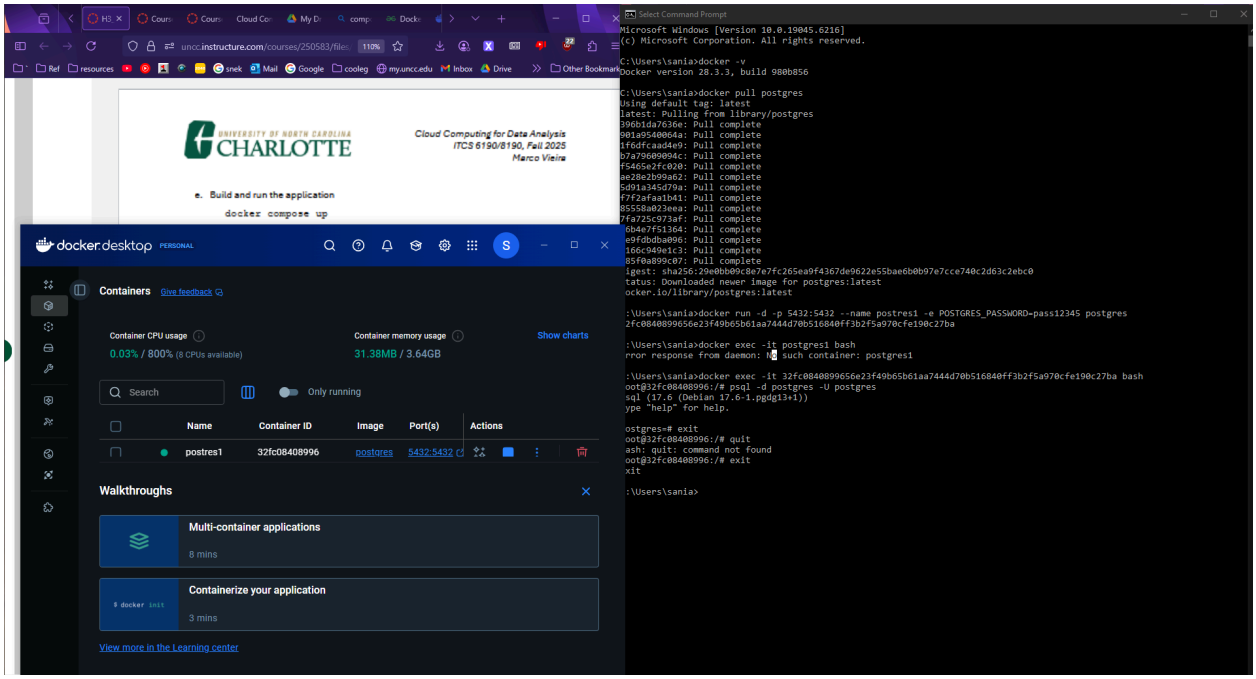
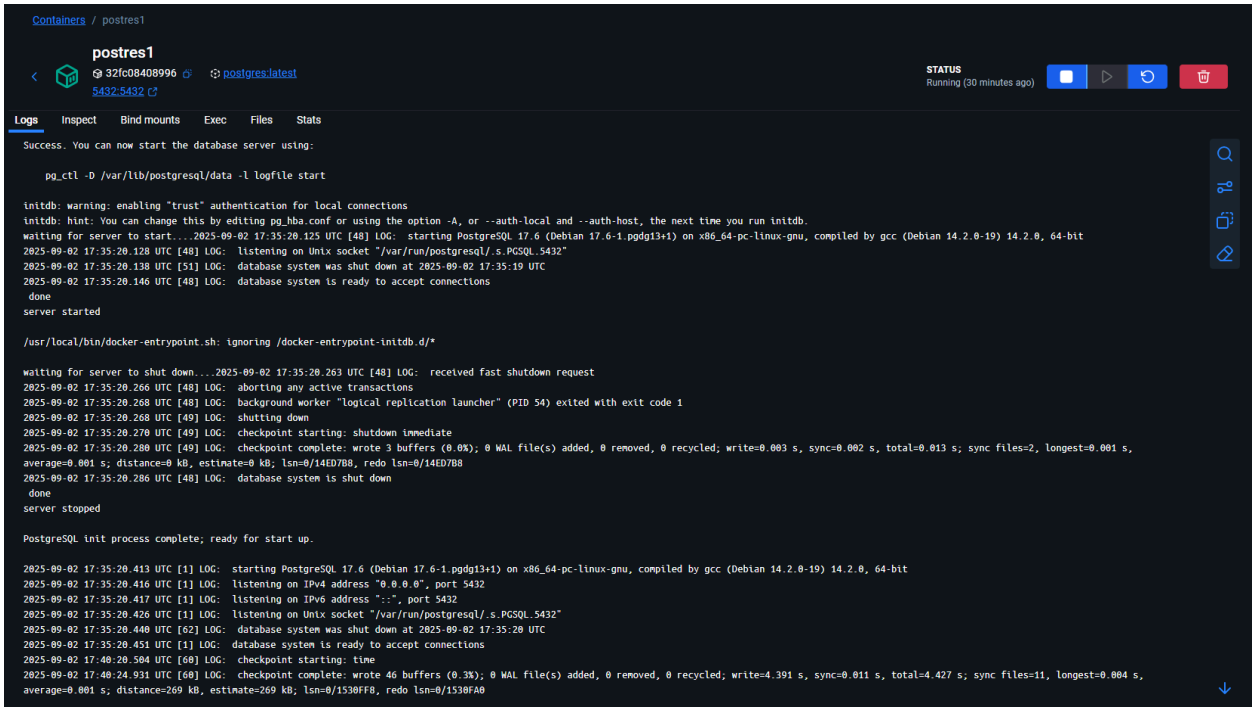
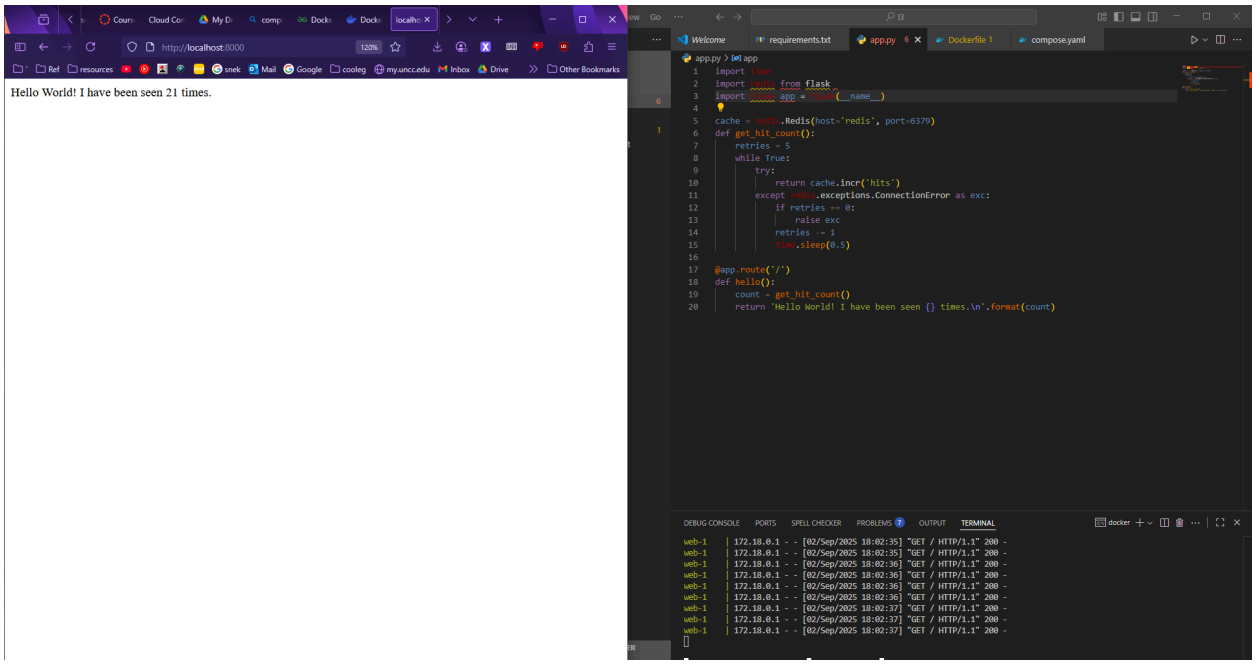
PostgreSQL Setup with Docker:





Build a Python Web App with Docker Compose in VS Code:


http://localhost:8000
Hello World! I have been seen 21 times.
app.py
requirements.txt
Dockerfile 1
compose.yaml
import time
import redis from flask
import Flask app = Flask(__name__)
cache = redis.Redis(host='redis', port=6379)
def get_hit_count():
retries = 5
while True:
try:
return cache.incr('hits')
except redis.exceptions.ConnectionError as exc:
if retries == 0:
raise exc
retries -= 1
time.sleep(0.5)
@app.route('/')
def hello():
count = get_hit_count()
return 'Hello World! I have been seen {} times.\n'.format(count)
DEBUG CONSOLE
PORTS
SPELL CHECKER
PROBLEMS
OUTPUT
TERMINAL
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:35] "GET / HTTP/1.1" 200 -
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:35] "GET / HTTP/1.1" 200 -
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:36] "GET / HTTP/1.1" 200 -
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:36] "GET / HTTP/1.1" 200 -
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:36] "GET / HTTP/1.1" 200 -
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:36] "GET / HTTP/1.1" 200 -
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:37] "GET / HTTP/1.1" 200 -
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:37] "GET / HTTP/1.1" 200 -
web-1 | 172.18.0.1 - - [02/Sep/2025 18:02:37] "GET / HTTP/1.1" 200 -