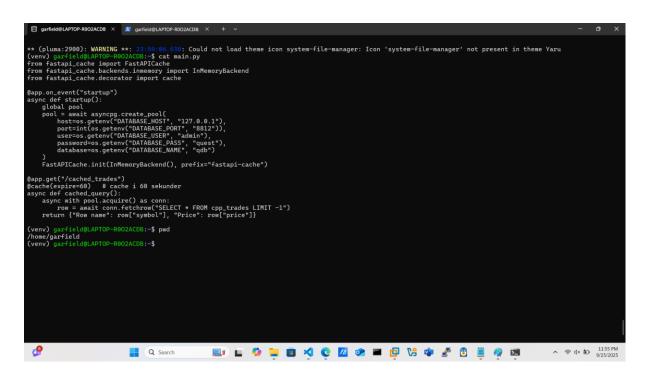
Rest API

Install and activate enviorement

```
Welcome to Ubuntu 24,04.2 LTS (GMU/Linux 5.15.167.4-microsoft-standard-WSL2 x86_64)

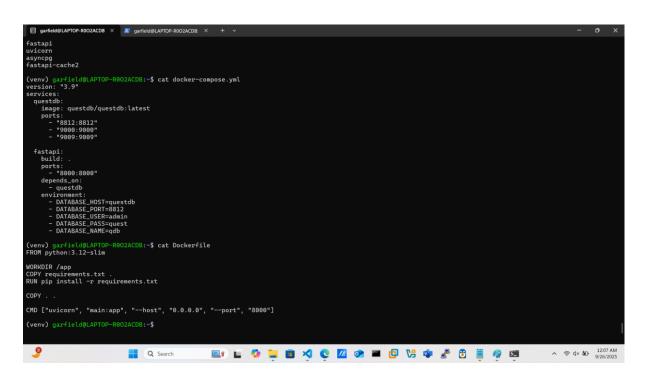
* Bocumentation: https://help.ubuntu.com
* Bungement: https://landscape.camonical.com
* Support: https://landsca
```

Create Python file, including cache



Install cache libary

Set up requirements.txt & dockerfile, & .yml file



```
## Spring Holder From Food State | Stating |

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***Close |
```

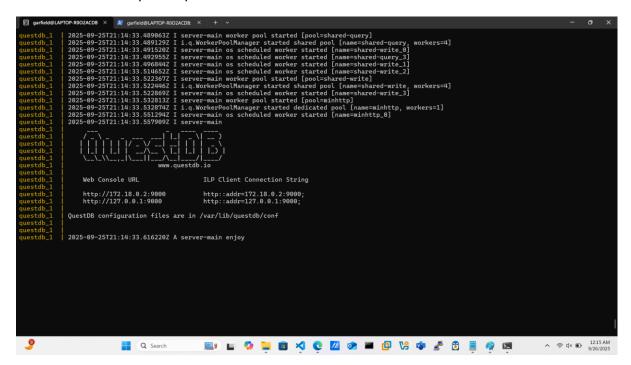
Sudo apt install docker-compose

Install compose libary

Sudo apt install docker-compose

Build docker

sudo docker-compose up --build



Commands til activate enviorement:

python3 -m venv venv source venv/bin/activate

pip install fastapi uvicorn asyncpg

uvicorn main:app -reload

```
Girefox.firefox:1288): IBUS-WARNING **: 23:58:23:397; Failed to mkdir /home/garfield/snap/firefox/6836/.config/ibus/bus: Not a directory (GFAI-): gixtes:: Could not connect to mayland display, WAYLAND_OISPLAY=(null) (GFAI-): gixtes:: Could not connect to mayland display, WAYLAND_OISPLAY=(null) (GFAI-): gixtes:: Could not connect to mayland display, WAYLAND_OISPLAY=(null) (GFAI-): gixtes:: Could not connect to mayland display, WAYLAND_OISPLAY=(null) (GFAI-): gixtes:: Could not connect to mayland display, WAYLAND_OISPLAY=(null) (GFAI-): gixtes:: Could not connect to mayland display, WAYLAND_OISPLAY=(null) (GFAI-): gixtes:: Garden (GFAI-): g
```

Dockerfile:

FROM python:3.12-slim

WORKDIR /app

COPY requirements.txt.

RUN pip install -r requirements.txt

COPY..

CMD ["uvicorn", "main:app", "--host", "0.0.0.0", "--port", "8000"]

Requirements.txt

fastapi
uvicorn
asyncpg
fastapi-cache2
docker-compose.yml
version: "3.9"
services:
questdb:
image: questdb/questdb:latest
ports:
- "8812:8812"
- "9000:9000"
- "9009:9009"
fastapi:
build: .
ports:
- "8000:8000"
depends_on:
- questdb
environment:
- DATABASE_HOST=questdb
- DATABASE_PORT=8812

- DATABASE_USER=admin

```
- DATABASE_PASS=quest
```

```
- DATABASE_NAME=qdb
```

Main.py

```
from fastapi import FastAPI
import asyncpg
import os
from fastapi_cache import FastAPICache
from fastapi_cache.backends.inmemory import InMemoryBackend
from fastapi_cache.decorator import cache
# Create FastAPI app
app = FastAPI()
# Global connection pool
pool = None
# Startup event: initialize DB pool + cache
@app.on_event("startup")
async def startup():
 global pool
 pool = await asyncpg.create_pool(
   host=os.getenv("DATABASE_HOST", "127.0.0.1"),
   port=int(os.getenv("DATABASE_PORT", "8812")),
   user=os.getenv("DATABASE_USER", "admin"),
```

```
password=os.getenv("DATABASE_PASS", "quest"),
   database=os.getenv("DATABASE_NAME", "qdb")
 )
 FastAPICache.init(InMemoryBackend(), prefix="fastapi-cache")
# Shutdown event: close pool
@app.on_event("shutdown")
async def shutdown():
 await pool.close()
# Root endpoint
@app.get("/")
def read_root():
 return {"Hello": "World"}
# Cached query endpoint
@app.get("/cached_trades")
@cache(expire=60) # cache for 60 seconds
async def cached_query():
 async with pool.acquire() as conn:
   row = await conn.fetchrow("SELECT * FROM cpp_trades LIMIT -1")
 return {"Row name": row["symbol"], "Price": row["price"]}
```