Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc

$ mkdir auth

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc

$ cd auth

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ python3 -m venv venv

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ vim server.py

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ source ./venv/bin/activate

bash: ./venv/bin/activate: No such file or directory

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ source ./venv/Scripts/activate

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ env | grep VIRTUAL

VIRTUAL\_ENV=E:\Microservice System Design Project\python\src\auth\

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ pip install pylint

Collecting pylint

Downloading pylint-3.0.3-py3-none-any.whl (510 kB)

------------------------------------- 510.6/510.6 KB 10.6 MB/

Collecting isort!=5.13.0,<6,>=4.2.5

Downloading isort-5.13.2-py3-none-any.whl (92 kB)

---------------------------------------- 92.3/92.3 KB 5.5 MB/

Collecting tomli>=1.1.0

Downloading tomli-2.0.1-py3-none-any.whl (12 kB)

Collecting platformdirs>=2.2.0

Downloading platformdirs-4.1.0-py3-none-any.whl (17 kB)

Collecting astroid<=3.1.0-dev0,>=3.0.1

Downloading astroid-3.0.2-py3-none-any.whl (275 kB)

-------------------------------------- 275.2/275.2 KB 8.5 MB/

Collecting tomlkit>=0.10.1

Downloading tomlkit-0.12.3-py3-none-any.whl (37 kB)

Collecting typing-extensions>=3.10.0

Downloading typing\_extensions-4.9.0-py3-none-any.whl (32 kB)

Collecting mccabe<0.8,>=0.6

Downloading mccabe-0.7.0-py2.py3-none-any.whl (7.3 kB)

Collecting colorama>=0.4.5

Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)

Collecting dill>=0.2

Downloading dill-0.3.7-py3-none-any.whl (115 kB)

---------------------------------------- 115.3/115.3 KB ? eta

Installing collected packages: typing-extensions, tomlkit, tomli, mccabe, isort, dill, colorama, astroid, pylint

Successfully installed astroid-3.0.2 colorama-0.4.6 dill-0.3.7 isobe-0.7.0 platformdirs-4.1.0 pylint-3.0.3 tomli-2.0.1 tomlkit-0.12.sions-4.9.0

WARNING: You are using pip version 22.0.4; however, version 23.3.2

You should consider upgrading via the 'E:\Microservice System Desihon\src\auth\venv\Scripts\python.exe -m pip install --upgrade pip'

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ pip install jedi

Collecting jedi

Downloading jedi-0.19.1-py2.py3-none-any.whl (1.6 MB)

---------------------------------------- 1.6/1.6 MB 10.0 MB/s

Collecting parso<0.9.0,>=0.8.3

Downloading parso-0.8.3-py2.py3-none-any.whl (100 kB)

-------------------------------------- 100.8/100.8 KB 6.0 MB/

Installing collected packages: parso, jedi

Successfully installed jedi-0.19.1 parso-0.8.3

WARNING: You are using pip version 22.0.4; however, version 23.3.2

You should consider upgrading via the 'E:\Microservice System Desihon\src\auth\venv\Scripts\python.exe -m pip install --upgrade pip'

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ python3 -m pip install --upgrade pip

Requirement already satisfied: pip in c:\program files\windowsappsefoundation.python.3.9\_3.9.3568.0\_x64\_\_qbz5n2kfra8p0\lib\site-pack

Collecting pip

Downloading pip-23.3.2-py3-none-any.whl (2.1 MB)

---------------------------------------- 2.1/2.1 MB 9.6 MB/s

Installing collected packages: pip

WARNING: The scripts pip.exe, pip3.11.exe, pip3.9.exe and pip3.eed in 'C:\Users\Samruddhi\AppData\Local\Packages\PythonSoftwareFou.3.9\_qbz5n2kfra8p0\LocalCache\local-packages\Python39\Scripts' whiATH.

Consider adding this directory to PATH or, if you prefer to supping, use --no-warn-script-location.

Successfully installed pip-23.3.2

WARNING: You are using pip version 22.0.4; however, version 23.3.2

You should consider upgrading via the 'C:\Users\Samruddhi\AppData\t\WindowsApps\PythonSoftwareFoundation.Python.3.9\_qbz5n2kfra8p0\pyp install --upgrade pip' command.

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ vim server.py

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ cat server.py

import jwt, datetime, os

from flask import Flask, request

from flask\_mysqldb import MySQL

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ pip install pyjwt

Collecting pyjwt

Downloading PyJWT-2.8.0-py3-none-any.whl (22 kB)

Installing collected packages: pyjwt

Successfully installed pyjwt-2.8.0

WARNING: You are using pip version 22.0.4; however, version 23.3.2

You should consider upgrading via the 'E:\Microservice System Desihon\src\auth\venv\Scripts\python.exe -m pip install --upgrade pip'

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ pip install flask

Collecting flask

Downloading flask-3.0.1-py3-none-any.whl (101 kB)

-------------------------------------- 101.2/101.2 KB 6.1 MB/

Collecting click>=8.1.3

Downloading click-8.1.7-py3-none-any.whl (97 kB)

---------------------------------------- 97.9/97.9 KB ? eta 0

Collecting importlib-metadata>=3.6.0

Downloading importlib\_metadata-7.0.1-py3-none-any.whl (23 kB)

Collecting Jinja2>=3.1.2

Downloading Jinja2-3.1.3-py3-none-any.whl (133 kB)

-------------------------------------- 133.2/133.2 KB 8.2 MB/

Collecting Werkzeug>=3.0.0

Downloading werkzeug-3.0.1-py3-none-any.whl (226 kB)

------------------------------------- 226.7/226.7 KB 13.5 MB/

Collecting itsdangerous>=2.1.2

Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)

Collecting blinker>=1.6.2

Downloading blinker-1.7.0-py3-none-any.whl (13 kB)

Requirement already satisfied: colorama in e:\microservice system \python\src\auth\venv\lib\site-packages (from click>=8.1.3->flask)

Collecting zipp>=0.5

Downloading zipp-3.17.0-py3-none-any.whl (7.4 kB)

Collecting MarkupSafe>=2.0

Downloading MarkupSafe-2.1.4-cp39-cp39-win\_amd64.whl (17 kB)

Installing collected packages: zipp, MarkupSafe, itsdangerous, clierkzeug, Jinja2, importlib-metadata, flask

Successfully installed Jinja2-3.1.3 MarkupSafe-2.1.4 Werkzeug-3.0.0 click-8.1.7 flask-3.0.1 importlib-metadata-7.0.1 itsdangerous-2.0

WARNING: You are using pip version 22.0.4; however, version 23.3.2

You should consider upgrading via the 'E:\Microservice System Desihon\src\auth\venv\Scripts\python.exe -m pip install --upgrade pip'

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ pip install flask\_mysqldb

Collecting flask\_mysqldb

Downloading Flask\_MySQLdb-2.0.0-py3-none-any.whl (4.9 kB)

Collecting mysqlclient>=2.2.0

Downloading mysqlclient-2.2.1-cp39-cp39-win\_amd64.whl (202 kB)

------------------------------------- 202.8/202.8 KB 12.0 MB/

Requirement already satisfied: Flask>=1.0.4 in e:\microservice sysject\python\src\auth\venv\lib\site-packages (from flask\_mysqldb) (

Requirement already satisfied: blinker>=1.6.2 in e:\microservice sroject\python\src\auth\venv\lib\site-packages (from Flask>=1.0.4-> (1.7.0)

Requirement already satisfied: click>=8.1.3 in e:\microservice sysject\python\src\auth\venv\lib\site-packages (from Flask>=1.0.4->fl8.1.7)

Requirement already satisfied: Werkzeug>=3.0.0 in e:\microservice project\python\src\auth\venv\lib\site-packages (from Flask>=1.0.4-) (3.0.1)

Requirement already satisfied: importlib-metadata>=3.6.0 in e:\micem design project\python\src\auth\venv\lib\site-packages (from Flask\_mysqldb) (7.0.1)

Requirement already satisfied: itsdangerous>=2.1.2 in e:\microservign project\python\src\auth\venv\lib\site-packages (from Flask>=1.qldb) (2.1.2)

Requirement already satisfied: Jinja2>=3.1.2 in e:\microservice syoject\python\src\auth\venv\lib\site-packages (from Flask>=1.0.4->f(3.1.3)

Requirement already satisfied: colorama in e:\microservice system \python\src\auth\venv\lib\site-packages (from click>=8.1.3->Flask>mysqldb) (0.4.6)

Requirement already satisfied: zipp>=0.5 in e:\microservice systemt\python\src\auth\venv\lib\site-packages (from importlib-metadata>=1.0.4->flask\_mysqldb) (3.17.0)

Requirement already satisfied: MarkupSafe>=2.0 in e:\microservice project\python\src\auth\venv\lib\site-packages (from Jinja2>=3.1.2->flask\_mysqldb) (2.1.4)

Installing collected packages: mysqlclient, flask\_mysqldb

Successfully installed flask\_mysqldb-2.0.0 mysqlclient-2.2.1

WARNING: You are using pip version 22.0.4; however, version 23.3.2

You should consider upgrading via the 'E:\Microservice System Desihon\src\auth\venv\Scripts\python.exe -m pip install --upgrade pip'

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ vim server.py

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ export MYSQL\_HOST = localhost

bash: export: `=': not a valid identifier

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ export MYSQL\_HOST=localhost

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ vim server.py

[1]+ Stopped vim server.py

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Project/python/src/auth

$ vim server.py

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Project/python/src/auth

$ export MYSQL\_HOST=localhost

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Project/python/src/auth

$ vim server.py

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Project/python/src/auth

$ python3 server.py

Traceback (most recent call last):

File "E:\Microservice System Design Project\python\src\auth\server.py", line 2, in <module>

from flask import Flask, request

ModuleNotFoundError: No module named 'flask'

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Project/python/src/auth

$ pip install flask

Requirement already satisfied: flask in e:\microservice system design project\python\src\auth\venv\lib\site-packages (3.0.1)

Requirement already satisfied: Jinja2>=3.1.2 in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from flask) (3.1.3)

Requirement already satisfied: importlib-metadata>=3.6.0 in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from flask) (7.0.1)

Requirement already satisfied: Werkzeug>=3.0.0 in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from flask) (3.0.1)

Requirement already satisfied: click>=8.1.3 in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from flask) (8.1.7)

Requirement already satisfied: blinker>=1.6.2 in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from flask) (1.7.0)

Requirement already satisfied: itsdangerous>=2.1.2 in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from flask) (2.1.2)

Requirement already satisfied: colorama in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from click>=8.1.3->flask) (0.4.6)

Requirement already satisfied: zipp>=0.5 in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from importlib-metadata>=3.6.0->flask) (3.17.0)

Requirement already satisfied: MarkupSafe>=2.0 in e:\microservice system design project\python\src\auth\venv\lib\site-packages (from Jinja2>=3.1.2->flask) (2.1.4)

WARNING: You are using pip version 22.0.4; however, version 23.3.2 is available.

You should consider upgrading via the 'E:\Microservice System Design Project\python\src\auth\venv\Scripts\python.exe -m pip install --upgrade pip' command.

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Project/python/src/auth

$ python3 server.py

Traceback (most recent call last):

File "E:\Microservice System Design Project\python\src\auth\server.py", line 2, in <module>

from flask import Flask, request

ModuleNotFoundError: No module named 'flask'

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Project/python/src/auth

$ python3 server.py

Traceback (most recent call last):

File "E:\Microservice System Design Project\python\src\auth\server.py", line 2, in <module>

from flask import Flask, request

ModuleNotFoundError: No module named 'flask'

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Project/python/src/auth

$

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ source ./venv/Scripts/activate

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ env | grep VIRTUAL

VIRTUAL\_ENV=E:\Microservice System Design Project\python\src\auth\

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ export MYSQL\_HOST=localhost

(venv)

Samruddhi@DESKTOP-QPUI53U MINGW64 /e/Microservice System Design Prrc/auth

$ python.exe server.py

PS E:\Microservice System Design Project> cd python

PS E:\Microservice System Design Project\python> ls

Directory: E:\Microservice System Design Project\python

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 10:35 AM src

PS E:\Microservice System Design Project\python> cd src

PS E:\Microservice System Design Project\python\src> ls

Directory: E:\Microservice System Design Project\python\src

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 10:25 AM auth

d----- 2/7/2024 10:36 AM gateway

PS E:\Microservice System Design Project\python\src> cd gateway

PS E:\Microservice System Design Project\python\src\gateway> ls

Directory: E:\Microservice System Design Project\python\src\gateway

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 10:36 AM venv

PS E:\Microservice System Design Project\python\src\gateway> python3 -m venv venv

PS E:\Microservice System Design Project\python\src\gateway> source .\venv\Scripts\Activate

source : The term 'source' is not recognized as the name of a cmdlet, function, script file, or operable program.

Check the spelling of the name, or if a path was included, verify that the path is correct and try again.

At line:1 char:1

+ source .\venv\Scripts\Activate

+ ~~~~~~

+ CategoryInfo : ObjectNotFound: (source:String) [], CommandNotFoundException

+ FullyQualifiedErrorId : CommandNotFoundException

PS E:\Microservice System Design Project\python\src\gateway> source ./venv/Scripts/activate

source : The term 'source' is not recognized as the name of a cmdlet, function, script file, or operable program.

Check the spelling of the name, or if a path was included, verify that the path is correct and try again.

At line:1 char:1

+ source ./venv/Scripts/activate

+ ~~~~~~

+ CategoryInfo : ObjectNotFound: (source:String) [], CommandNotFoundException

+ FullyQualifiedErrorId : CommandNotFoundException

PS E:\Microservice System Design Project\python\src\gateway> .\venv\Scripts\Activate

(venv) PS E:\Microservice System Design Project\python\src\gateway> env | grep ENV

env : The term 'env' is not recognized as the name of a cmdlet, function, script file, or operable program. Check

the spelling of the name, or if a path was included, verify that the path is correct and try again.

At line:1 char:1

+ env | grep ENV

+ ~~~

+ CategoryInfo : ObjectNotFound: (env:String) [], CommandNotFoundException

+ FullyQualifiedErrorId : CommandNotFoundException

(venv) PS E:\Microservice System Design Project\python\src\gateway> pip3 install jedi

Collecting jedi

Using cached jedi-0.19.1-py2.py3-none-any.whl (1.6 MB)

Collecting parso<0.9.0,>=0.8.3

Using cached parso-0.8.3-py2.py3-none-any.whl (100 kB)

Installing collected packages: parso, jedi

Successfully installed jedi-0.19.1 parso-0.8.3

WARNING: You are using pip version 22.0.4; however, version 24.0 is available.

You should consider upgrading via the 'E:\Microservice System Design Project\python\src\gateway\venv\Scripts\python.exe -m pip install --upgrade pip' command.

(venv) PS E:\Microservice System Design Project\python\src\gateway> pip3 install pylint

Collecting pylint

Using cached pylint-3.0.3-py3-none-any.whl (510 kB)

Collecting colorama>=0.4.5

Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)

Collecting mccabe<0.8,>=0.6

Using cached mccabe-0.7.0-py2.py3-none-any.whl (7.3 kB)

Collecting tomli>=1.1.0

Using cached tomli-2.0.1-py3-none-any.whl (12 kB)

Collecting astroid<=3.1.0-dev0,>=3.0.1

Downloading astroid-3.0.3-py3-none-any.whl (275 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 275.2/275.2 KB 4.3 MB/s eta 0:00:00

Collecting typing-extensions>=3.10.0

Using cached typing\_extensions-4.9.0-py3-none-any.whl (32 kB)

Collecting isort!=5.13.0,<6,>=4.2.5

Using cached isort-5.13.2-py3-none-any.whl (92 kB)

Collecting dill>=0.2

Downloading dill-0.3.8-py3-none-any.whl (116 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 116.3/116.3 KB 6.6 MB/s eta 0:00:00

Collecting tomlkit>=0.10.1

Using cached tomlkit-0.12.3-py3-none-any.whl (37 kB)

Collecting platformdirs>=2.2.0

Downloading platformdirs-4.2.0-py3-none-any.whl (17 kB)

Installing collected packages: typing-extensions, tomlkit, tomli, platformdirs, mccabe, isort, dill, colorama, astroid, pylint

Successfully installed astroid-3.0.3 colorama-0.4.6 dill-0.3.8 isort-5.13.2 mccabe-0.7.0 platformdirs-4.2.0 pylint-3.0.3 tomli-2.0.1 tomlkit-0.12.3 typing-extensions-4.9.0

WARNING: You are using pip version 22.0.4; however, version 24.0 is available.

You should consider upgrading via the 'E:\Microservice System Design Project\python\src\gateway\venv\Scripts\python.exe -m pip install --upgrade pip' command.

(venv) PS E:\Microservice System Design Project\python\src\gateway> pip3 install pika

Collecting pika

Downloading pika-1.3.2-py3-none-any.whl (155 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 155.4/155.4 KB 2.3 MB/s eta 0:00:00

Installing collected packages: pika

Successfully installed pika-1.3.2

WARNING: You are using pip version 22.0.4; however, version 24.0 is available.

You should consider upgrading via the 'E:\Microservice System Design Project\python\src\gateway\venv\Scripts\python.exe -m pip install --upgrade pip' command.

(venv) PS E:\Microservice System Design Project\python\src\gateway> pip3 install flask

Collecting flask

Downloading flask-3.0.2-py3-none-any.whl (101 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 101.3/101.3 KB 1.9 MB/s eta 0:00:00

Collecting Werkzeug>=3.0.0

Using cached werkzeug-3.0.1-py3-none-any.whl (226 kB)

Collecting importlib-metadata>=3.6.0

Using cached importlib\_metadata-7.0.1-py3-none-any.whl (23 kB)

Collecting click>=8.1.3

Using cached click-8.1.7-py3-none-any.whl (97 kB)

Collecting blinker>=1.6.2

Using cached blinker-1.7.0-py3-none-any.whl (13 kB)

Collecting itsdangerous>=2.1.2

Using cached itsdangerous-2.1.2-py3-none-any.whl (15 kB)

Collecting Jinja2>=3.1.2

Using cached Jinja2-3.1.3-py3-none-any.whl (133 kB)

Requirement already satisfied: colorama in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from click>=8.1.3->flask) (0.4.6)

Collecting zipp>=0.5

Using cached zipp-3.17.0-py3-none-any.whl (7.4 kB)

Collecting MarkupSafe>=2.0

Downloading MarkupSafe-2.1.5-cp39-cp39-win\_amd64.whl (17 kB)

Installing collected packages: zipp, MarkupSafe, itsdangerous, click, blinker, Werkzeug, Jinja2, importlib-metadata, flask

Successfully installed Jinja2-3.1.3 MarkupSafe-2.1.5 Werkzeug-3.0.1 blinker-1.7.0 click-8.1.7 flask-3.0.2 importlib-metadata-7.0.1 itsdangerous-2.1.2 zipp-3.17.0

WARNING: You are using pip version 22.0.4; however, version 24.0 is available.

You should consider upgrading via the 'E:\Microservice System Design Project\python\src\gateway\venv\Scripts\python.exe -m pip install --upgrade pip' command.

(venv) PS E:\Microservice System Design Project\python\src\gateway> pip3 install pyMongo

Collecting pyMongo

Downloading pymongo-4.6.1-cp39-cp39-win\_amd64.whl (472 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 472.7/472.7 KB 4.9 MB/s eta 0:00:00

Collecting dnspython<3.0.0,>=1.16.0

Downloading dnspython-2.5.0-py3-none-any.whl (305 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 305.4/305.4 KB 18.5 MB/s eta 0:00:00

Installing collected packages: dnspython, pyMongo

Successfully installed dnspython-2.5.0 pyMongo-4.6.1

WARNING: You are using pip version 22.0.4; however, version 24.0 is available.

You should consider upgrading via the 'E:\Microservice System Design Project\python\src\gateway\venv\Scripts\python.exe -m pip install --upgrade pip' command.

(venv) PS E:\Microservice System Design Project\python\src\gateway> pip3 install Flask-PyMongo

Collecting Flask-PyMongo

Downloading Flask\_PyMongo-2.3.0-py2.py3-none-any.whl (12 kB)

Requirement already satisfied: PyMongo>=3.3 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Flask-PyMongo) (4.6.1)

Requirement already satisfied: Flask>=0.11 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Flask-PyMongo) (3.0.2)

Requirement already satisfied: importlib-metadata>=3.6.0 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Flask>=0.11->Flask-PyMongo) (7.0.1)

Requirement already satisfied: blinker>=1.6.2 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Flask>=0.11->Flask-PyMongo) (1.7.0)

Requirement already satisfied: Jinja2>=3.1.2 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Flask>=0.11->Flask-PyMongo) (3.1.3)

Requirement already satisfied: itsdangerous>=2.1.2 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Flask>=0.11->Flask-PyMongo) (2.1.2)

Requirement already satisfied: Werkzeug>=3.0.0 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Flask>=0.11->Flask-PyMongo) (3.0.1)

Requirement already satisfied: click>=8.1.3 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Flask>=0.11->Flask-PyMongo) (8.1.7)

Requirement already satisfied: dnspython<3.0.0,>=1.16.0 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from PyMongo>=3.3->Flask-PyMongo) (2.5.0)

Requirement already satisfied: colorama in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from click>=8.1.3->Flask>=0.11->Flask-PyMongo) (0.4.6)

Requirement already satisfied: zipp>=0.5 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from importlib-metadata>=3.6.0->Flask>=0.11->Flask-PyMongo) (3.17.0)

Requirement already satisfied: MarkupSafe>=2.0 in e:\microservice system design project\python\src\gateway\venv\lib\site-packages (from Jinja2>=3.1.2->Flask>=0.11->Flask-PyMongo) (2.1.5)

Installing collected packages: Flask-PyMongo

Successfully installed Flask-PyMongo-2.3.0

WARNING: You are using pip version 22.0.4; however, version 24.0 is available.

You should consider upgrading via the 'E:\Microservice System Design Project\python\src\gateway\venv\Scripts\python.exe -m pip install --upgrade pip' command.

(venv) PS E:\Microservice System Design Project\python\src\gateway> mkdir auth\_svc

Directory: E:\Microservice System Design Project\python\src\gateway

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 10:49 AM auth\_svc

(venv) PS E:\Microservice System Design Project\python\src\gateway> cd auth\_svc

(venv) PS E:\Microservice System Design Project\python\src\gateway\auth\_svc>

(venv) PS E:\Microservice System Design Project\python\src\gateway\auth\_svc> ls

(venv) PS E:\Microservice System Design Project\python\src\gateway\auth\_svc> touch \_\_init\_\_.py

touch : The term 'touch' is not recognized as the name of a cmdlet, function, script file, or operable program.

Check the spelling of the name, or if a path was included, verify that the path is correct and try again.

At line:1 char:1

+ touch \_\_init\_\_.py

+ ~~~~~

+ CategoryInfo : ObjectNotFound: (touch:String) [], CommandNotFoundException

+ FullyQualifiedErrorId : CommandNotFoundException

(venv) PS E:\Microservice System Design Project\python\src\gateway\auth\_svc> ls

(venv) PS E:\Microservice System Design Project\python\src\gateway\auth\_svc> pip3 install requests

Collecting requests

Downloading requests-2.31.0-py3-none-any.whl (62 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 62.6/62.6 KB 1.7 MB/s eta 0:00:00

Collecting urllib3<3,>=1.21.1

Downloading urllib3-2.2.0-py3-none-any.whl (120 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 120.9/120.9 KB 6.9 MB/s eta 0:00:00

Collecting idna<4,>=2.5

Downloading idna-3.6-py3-none-any.whl (61 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 61.6/61.6 KB ? eta 0:00:00

Collecting certifi>=2017.4.17

Downloading certifi-2024.2.2-py3-none-any.whl (163 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 163.8/163.8 KB ? eta 0:00:00

Collecting charset-normalizer<4,>=2

Downloading charset\_normalizer-3.3.2-cp39-cp39-win\_amd64.whl (100 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 100.4/100.4 KB ? eta 0:00:00

Installing collected packages: urllib3, idna, charset-normalizer, certifi, requests

Successfully installed certifi-2024.2.2 charset-normalizer-3.3.2 idna-3.6 requests-2.31.0 urllib3-2.2.0

WARNING: You are using pip version 22.0.4; however, version 24.0 is available.

You should consider upgrading via the 'E:\Microservice System Design Project\python\src\gateway\venv\Scripts\python.exe -m pip install --upgrade pip' command.

(venv) PS E:\Microservice System Design Project\python\src\gateway\auth\_svc>

cd ..

(venv) PS E:\Microservice System Design Project\python\src\gateway> ls

Directory: E:\Microservice System Design Project\python\src\gateway

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 10:51 AM auth\_svc

d----- 2/7/2024 10:36 AM venv

-a---- 2/7/2024 10:50 AM 2031 server.py

(venv) PS E:\Microservice System Design Project\python\src\gateway> mkdir auth

Directory: E:\Microservice System Design Project\python\src\gateway

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 10:54 AM auth

(venv) PS E:\Microservice System Design Project\python\src\gateway> cd auth

(venv) PS E:\Microservice System Design Project\python\src\gateway\auth> cd ..

(venv) PS E:\Microservice System Design Project\python\src\gateway> mkdir storage

Directory: E:\Microservice System Design Project\python\src\gateway

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 11:03 AM storage

(venv) PS E:\Microservice System Design Project\python\src\gateway> cd storage

(venv) PS E:\Microservice System Design Project\python\src\gateway\storage> cd ..

(venv) PS E:\Microservice System Design Project\python\src\gateway> pip3 freeze > requirements.txt

(venv) PS E:\Microservice System Design Project\python\src\gateway> docker build .

[+] Building 41.6s (12/12) FINISHED docker:default

=> [internal] load build definition from Dockerfile 0.0s

=> => transferring dockerfile: 408B 0.0s

=> [internal] load .dockerignore 0.0s

=> => transferring context: 2B 0.0s

=> [internal] load metadata for docker.io/library/python:3.10-slim-bullseye 1.7s

=> [auth] library/python:pull token for registry-1.docker.io 0.0s

=> CACHED [1/6] FROM docker.io/library/python:3.10-slim-bullseye@sha256:66a19e860be1baeb9b2434e11690c82c474f 0.0s

=> [internal] load build context 10.7s

=> => transferring context: 44.07MB 10.7s

=> [2/6] RUN apt-get update && apt-get install -y --no-install-recommends --no-install-suggests build-e 28.6s

=> [3/6] WORKDIR /app 0.1s

=> [4/6] COPY ./requirements.txt /app 0.0s

=> [5/6] RUN pip install --no-cache-dir --requirement /app/requirements.txt 9.1s

=> [6/6] COPY . /app 0.5s

=> exporting to image 1.5s

=> => exporting layers 1.5s

=> => writing image sha256:8e359961c4f3d3887a71981c26043f2adffd717cfb2178f777d58fc4f672a339 0.0s

What's Next?

View a summary of image vulnerabilities and recommendations → docker scout quickview

(venv) PS E:\Microservice System Design Project\python\src\gateway> docker tag 8e359961c4f3d3887a71981c26043f2adffd717cfb2178f777d58fc4f672a339 sam301100/gateway:latest

(venv) PS E:\Microservice System Design Project\python\src\gateway> docker push sam301100/gateway:latest

The push refers to repository [docker.io/sam301100/gateway]

aa6622c87f33: Pushed

b32df55bba7f: Pushed

19ed48b2787d: Pushed

3da72bb20999: Pushed

92ba5ede3892: Pushed

f24d92d8134b: Mounted from sam301100/auth

faef5225c4e9: Mounted from sam301100/auth

4062b279e367: Mounted from sam301100/auth

0e5209a3d7d4: Mounted from sam301100/auth

30e7249f6651: Mounted from sam301100/auth

latest: digest: sha256:b1a0a76b8cf301a8c86f4bffe5cbc75d7e0331aaf5bb1e0972ad7c453949e53d size: 2419

(venv) PS E:\Microservice System Design Project\python\src\gateway> sudo vim /etc/hosts

sudo : The term 'sudo' is not recognized as the name of a cmdlet, function, script file, or operable program.

Check the spelling of the name, or if a path was included, verify that the path is correct and try again.

At line:1 char:1

+ sudo vim /etc/hosts

+ ~~~~

+ CategoryInfo : ObjectNotFound: (sudo:String) [], CommandNotFoundException

+ FullyQualifiedErrorId : CommandNotFoundException

(venv) PS E:\Microservice System Design Project\python\src\gateway> Start-Process -FilePath "notepad.exe" -ArgumentList "C:\Windows\System32\drivers\etc\hosts" -Verb "RunAs"

(venv) PS E:\Microservice System Design Project\python\src\gateway> cd manifests

(venv) PS E:\Microservice System Design Project\python\src\gateway\manifests> minikube addons list

W0207 11:52:01.985015 27016 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\Samruddhi\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.

|-----------------------------|----------|--------------|--------------------------------|

| ADDON NAME | PROFILE | STATUS | MAINTAINER |

|-----------------------------|----------|--------------|--------------------------------|

| ambassador | minikube | disabled | 3rd party (Ambassador) |

| auto-pause | minikube | disabled | minikube |

| cloud-spanner | minikube | disabled | Google |

| csi-hostpath-driver | minikube | disabled | Kubernetes |

| dashboard | minikube | disabled | Kubernetes |

| default-storageclass | minikube | enabled ✅ | Kubernetes |

| efk | minikube | disabled | 3rd party (Elastic) |

| freshpod | minikube | disabled | Google |

| gcp-auth | minikube | disabled | Google |

| gvisor | minikube | disabled | minikube |

| headlamp | minikube | disabled | 3rd party (kinvolk.io) |

| helm-tiller | minikube | disabled | 3rd party (Helm) |

| inaccel | minikube | disabled | 3rd party (InAccel |

| | | | [info@inaccel.com]) |

| ingress | minikube | disabled | Kubernetes |

| ingress-dns | minikube | disabled | minikube |

| inspektor-gadget | minikube | disabled | 3rd party |

| | | | (inspektor-gadget.io) |

| istio | minikube | disabled | 3rd party (Istio) |

| istio-provisioner | minikube | disabled | 3rd party (Istio) |

| kong | minikube | disabled | 3rd party (Kong HQ) |

| kubeflow | minikube | disabled | 3rd party |

| kubevirt | minikube | disabled | 3rd party (KubeVirt) |

| logviewer | minikube | disabled | 3rd party (unknown) |

| metallb | minikube | disabled | 3rd party (MetalLB) |

| metrics-server | minikube | disabled | Kubernetes |

| nvidia-device-plugin | minikube | disabled | 3rd party (NVIDIA) |

| nvidia-driver-installer | minikube | disabled | 3rd party (Nvidia) |

| nvidia-gpu-device-plugin | minikube | disabled | 3rd party (Nvidia) |

| olm | minikube | disabled | 3rd party (Operator Framework) |

| pod-security-policy | minikube | disabled | 3rd party (unknown) |

| portainer | minikube | disabled | 3rd party (Portainer.io) |

| registry | minikube | disabled | minikube |

| registry-aliases | minikube | disabled | 3rd party (unknown) |

| registry-creds | minikube | disabled | 3rd party (UPMC Enterprises) |

| storage-provisioner | minikube | enabled ✅ | minikube |

| storage-provisioner-gluster | minikube | disabled | 3rd party (Gluster) |

| storage-provisioner-rancher | minikube | disabled | 3rd party (Rancher) |

| volumesnapshots | minikube | disabled | Kubernetes |

|-----------------------------|----------|--------------|--------------------------------|

(venv) PS E:\Microservice System Design Project\python\src\gateway\manifests> minikube addons ingress enable

W0207 11:52:33.403213 23828 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\Samruddhi\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.

addons modifies minikube addons files using subcommands like "minikube addons enable dashboard"

Available Commands:

configure Configures the addon w/ADDON\_NAME within minikube (example: minikube addons

configure registry-creds). For a list of available addons use: minikube addons list

disable Disables the addon w/ADDON\_NAME within minikube (example: minikube addons disable

dashboard). For a list of available addons use: minikube addons list

enable Enables the addon w/ADDON\_NAME within minikube. For a list of available addons use:

minikube addons list

images List image names the addon w/ADDON\_NAME used. For a list of available addons use:

minikube addons list

list Lists all available minikube addons as well as their current statuses

(enabled/disabled)

open Opens the addon w/ADDON\_NAME within minikube (example: minikube addons open

dashboard). For a list of available addons use: minikube addons list

Usage:

minikube addons SUBCOMMAND [flags] [options]

Use "minikube addons <command> --help" for more information about a given command.

Use "minikube options" for a list of global command-line options (applies to all commands).

(venv) PS E:\Microservice System Design Project\python\src\gateway\manifests> minikube addons enable ingress

W0207 11:52:56.008270 26152 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\Samruddhi\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.

💡 ingress is an addon maintained by Kubernetes. For any concerns contact minikube on GitHub.

You can view the list of minikube maintainers at: https://github.com/kubernetes/minikube/blob/master/OWNERS

💡 After the addon is enabled, please run "minikube tunnel" and your ingress resources would be available at "127.0.0.1"

▪ Using image registry.k8s.io/ingress-nginx/controller:v1.9.4

▪ Using image registry.k8s.io/ingress-nginx/kube-webhook-certgen:v20231011-8b53cabe0

▪ Using image registry.k8s.io/ingress-nginx/kube-webhook-certgen:v20231011-8b53cabe0

🔎 Verifying ingress addon...

🌟 The 'ingress' addon is enabled

(venv) PS E:\Microservice System Design Project\python\src\gateway\manifests> minikube tunnel

W0207 11:53:39.949825 26584 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\Samruddhi\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.

✅ Tunnel successfully started

📌 NOTE: Please do not close this terminal as this process must stay alive for the tunnel to be accessible ...

(venv) PS E:\Microservice System Design Project\python\src\gateway\manifests> kubectl apply -f ./

configmap/gateway-configmap created

deployment.apps/gateway created

ingress.networking.k8s.io/gateway-ingress created

secret/gateway-secret created

service/gateway created

(venv) PS E:\Microservice System Design Project\python\src\gateway\manifests> cd ..

(venv) PS E:\Microservice System Design Project\python\src\gateway> cd ..

(venv) PS E:\Microservice System Design Project\python\src> mkdir rabbit

Directory: E:\Microservice System Design Project\python\src

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 11:57 AM rabbit

(venv) PS E:\Microservice System Design Project\python\src> ls

Directory: E:\Microservice System Design Project\python\src

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 10:25 AM auth

d----- 2/7/2024 11:37 AM gateway

d----- 2/7/2024 11:57 AM rabbit

(venv) PS E:\Microservice System Design Project\python\src> cd rabbit

(venv) PS E:\Microservice System Design Project\python\src\rabbit> ls

(venv) PS E:\Microservice System Design Project\python\src\rabbit> mkdir manifests

Directory: E:\Microservice System Design Project\python\src\rabbit

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 11:59 AM manifests

(venv) PS E:\Microservice System Design Project\python\src\rabbit> ls

Directory: E:\Microservice System Design Project\python\src\rabbit

Mode LastWriteTime Length Name

---- ------------- ------ ----

d----- 2/7/2024 11:59 AM manifests

(venv) PS E:\Microservice System Design Project\python\src\rabbit> cd manifests

(venv) PS E:\Microservice System Design Project\python\src\rabbit\manifests> Start-Process -FilePath "notepad.exe" -ArgumentList "C:\Windows\System32\drivers\etc\hosts" -Verb "RunAs"

(venv) PS E:\Microservice System Design Project\python\src\rabbit\manifests> kubectl apply -f ./

configmap/rabbitmq-configmap created

ingress.networking.k8s.io/rabbitmq-ingress created

persistentvolumeclaim/rabbitmq-pvc created

secret/rabbitmq-secret created

service/rabbitmq created

(venv) PS E:\Microservice System Design Project\python\src\rabbit\manifests> kubectl describe pod rabbitmq-0

Name: rabbitmq-0

Namespace: default

Priority: 0

Service Account: default

Node: minikube/192.168.49.2

Start Time: Wed, 07 Feb 2024 12:06:29 -0800

Labels: app=rabbitmq

apps.kubernetes.io/pod-index=0

controller-revision-hash=rabbitmq-b6fcff9b7

statefulset.kubernetes.io/pod-name=rabbitmq-0

Annotations: <none>

Status: Running

IP: 10.244.0.11

IPs:

IP: 10.244.0.11

Controlled By: StatefulSet/rabbitmq

Containers:

rabbitmq:

Container ID: docker://ade1a636d370e1c2ea05b1e5f2d29ca3c30c55be355f517d9ec2adc57b51626d

Image: rabbitmq:3-management

Image ID: docker-pullable://rabbitmq@sha256:90d092d69498fe5c4eaf775d750e9319e8e9e4bcf841ebf1f33d4e9134b4b180

Ports: 15672/TCP, 5672/TCP

Host Ports: 0/TCP, 0/TCP

State: Running

Started: Wed, 07 Feb 2024 12:06:40 -0800

Ready: True

Restart Count: 0

Environment Variables from:

rabbitmq-configmap ConfigMap Optional: false

rabbitmq-secret Secret Optional: false

Environment: <none>

Mounts:

/var/lib/rabbitmq from rabbitmq-volume (rw)

/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-655lh (ro)

Conditions:

Type Status

Initialized True

Ready True

ContainersReady True

PodScheduled True

Volumes:

rabbitmq-volume:

Type: PersistentVolumeClaim (a reference to a PersistentVolumeClaim in the same namespace)

ClaimName: rabbitmq-pvc

ReadOnly: false

kube-api-access-655lh:

Type: Projected (a volume that contains injected data from multiple sources)

TokenExpirationSeconds: 3607

ConfigMapName: kube-root-ca.crt

(venv) PS E:\Microservice System Design Project\python\src\rabbit\manifests> minikube tunnel

W0207 12:10:09.398477 27604 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:\Users\Samruddhi\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path specified.

✅ Tunnel successfully started

📌 NOTE: Please do not close this terminal as this process must stay alive for the tunnel to be accessible ...

❗ Access to ports below 1024 may fail on Windows with OpenSSH clients older than v8.1. For more information, see: https://minikube.sigs.k8s.io/docs/handbook/accessing/#access-to-ports-1024-on-windows-requires-root-permission

❗ Access to ports below 1024 may fail on Windows with OpenSSH clients older than v8.1. For more information, see: https://minikube.sigs.k8s.io/docs/handbook/accessing/#access-to-ports-1024-on-windows-requires-root-permission

🏃 Starting tunnel for service gateway-ingress.

🏃 Starting tunnel for service rabbitmq-ingress.