

EXPLORER
PYTHON HEALTH CHECK
 > __pycache__
 > venv
 app.py
 index.html

app.py > ...
1 from flask import Flask, request, render_template, make_response, jsonify
2 from sqlalchemy import create_engine
3 from sqlalchemy.exc import SQLAlchemyError
4 import redis
5 import time
6 import os
7 import datetime
8 import requests
9
10 app = Flask(__name__)
11
12 # Database connection
13 db_user = 'Aaftaab'
14 db_password = 'VIRUS2020'
15 db_host = 'localhost'
16 db_name = 'Healthcheck'
17 db_port = '3306' # Default MariaDB port is 3306
18
19 db_connection_string = f"mysql+pymysql://{db_user}:{db_password}@{db_host}:{db_port}/{db_name}"
20 db_engine = create_engine(db_connection_string)
21
22 # Health check for external service (e.g., Google)
23 def external_service_healthcheck():
24 try:

PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG DEBUG CONSOLE

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* Running on http://127.0.0.1:5000
Press CTRL+C to quit
127.0.0.1 - - [13/Jun/2023 21:24:02] "GET / HTTP/1.1" 404 -
127.0.0.1 - - [13/Jun/2023 21:25:54] "GET /health HTTP/1.1" 405 -
127.0.0.1 - - [13/Jun/2023 21:25:54] "GET /favicon.ico HTTP/1.1" 404 -
(venv) PS C:\Users\MOHAMED AFZAL\OneDrive\Desktop\Python Health Check> flask run
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127.0.0.1 - - [13/Jun/2023 21:33:00] "GET / HTTP/1.1" 404 -

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47 # Example of a custom health check
48 def my_custom_healthcheck():
49     # TODO: Implement a custom health check here
50     return True
51
52 # Perform health checks and return status
53 def perform_healthchecks():
54     healthchecks = {
55         'external_service': external_service_healthcheck(),
56         'database': database_healthcheck(),
57         'cache': cache_healthcheck(),
58         'custom': my_custom_healthcheck()
59     }
60     if all(healthchecks.values()):
61         return 'Healthy'
62     else:
63         return 'Unhealthy'
64
65 # Endpoint for checking application health
66 @app.route('/health', methods=['POST'])
67 def check_health():
68     if request.method == 'POST':
69         status = perform_healthchecks()
70         if status == 'Healthy':

```

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status = perform_healthchecks()
if status == 'Healthy':
    response = jsonify({'status': 'healthy'})
    response.status_code = 200
else:
    response = jsonify({'status': 'unhealthy'})
    response.status_code = 503

response.headers['Request-URL'] = request.form['url']
response.headers['Request-Method'] = request.method
response.headers['Status-Code'] = make_response('').status_code
response.headers['Remote-Address'] = request.remote_addr
response.headers['Referrer-Policy'] = 'strict-origin-when-cross-origin'
response.headers['Cache-Control'] = 'no-cache, no-store, must-revalidate'
response.headers['Content-Type'] = 'application/json'
response.headers['Date'] = datetime.datetime.utcnow().strftime('%a, %d %b %Y %H:%M:%S GMT')
response.headers['Expires'] = '0'
response.headers['Pragma'] = 'no-cache'
response.headers['Server'] = 'Flask'
response.headers['Status'] = make_response('').status
response.headers['X-Powered-By'] = 'Flask'
response.headers['X-Source-File'] = os.path.abspath(__file__)

return render_template('index.html', status=status)

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...

x

powershell

Python Deb...

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return render_template('index.html', status=status)
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if __name__ == '__main__':
    # Start the server
    app.run()

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