PYTHON INTERN ASSIGNMENT

1.FILE STRUCTURE:

2.app.py:

```
from flask import Flask, request, jsonify
import requests
import sqlite3
app = Flask( name )
DATABASE = 'user_database.db'
def get_db():
    conn = sqlite3.connect(DATABASE)
    conn.row_factory = sqlite3.Row
    return conn
@app.route('/api/users', methods=['GET'])
def search users():
    first_name = request.args.get('first_name')
    conn = get_db()
    cursor = conn.cursor()
    cursor.execute('''
        SELECT * FROM users WHERE first name LIKE ?
    ''', (f"{first_name}%",))
    matching_users = cursor.fetchall()
    if matching_users:
        return jsonify([dict(user) for user in matching_users])
    response =
requests.get(f'https://dummyjson.com/users/search?q={first_name}')
   try:
```

```
external_users = response.json()
        if isinstance(external users, list):
            for user in external users:
                cursor.execute('''
                    INSERT INTO users (first_name, last_name, age, gender,
email, phone, birth_date)
                    user.get('first_name', ''), user.get('last_name', ''),
user.get('age', None),
                    user.get('gender', ''), user.get('email', ''),
user.get('phone', ''), user.get('birth_date', '')
                ))
            conn.commit()
        else:
            return "Invalid JSON format from the external API", 500
    except Exception as e:
        return f"Error: {e}", 500
    return jsonify(external_users)
if __name__ == '__main__':
    app.run(debug=True)
```

3. Run the Application:

Open a terminal or command prompt, navigate to the project folder, and run the following command

Python app.py

4.Access the API:

Open web browser

http://127.0.0.1:5000/api/users?first_name=will

Replace 'will' with the desired first name to search for users.

5.Output:

