Software Requirements for ToDo Application

Summary:

The "ToDo" application is a web-based task management system that allows users to register an account, log in, and efficiently organize their tasks. Users can create new tasks, view existing tasks, edit task details, and delete tasks as needed. The application provides a user-friendly interface where tasks can be categorized, prioritized, and assigned to specific individuals. Users can easily track the due dates and status of their tasks, helping them stay organized and productive. With features such as registration, login, task creation, viewing, editing, and deletion, the "ToDo" application offers a comprehensive solution for managing and organizing tasks effectively.

Note: ReadMe – Guide for ToDo application, help to register an account, log in, and manipulate their tasks.

Software Requirements:

The ToDo application can be tested using two ways as below.

1. PythonAnyWhere
   - Web Application Hosting: PythonAnywhere allows you to deploy and host your Python web applications in a secure and scalable environment. You can run popular web frameworks like Flask or Django and easily manage your application's configurations and dependencies.

   - Created account Christi003 and uploaded all files in corresponding directory https://www.pythonanywhere.com/user/Christi003
   - Configured database

Facing some issues in PythonAnyWhere, due to absolute path issue, while accessing recursive html files and some more bugs.

https://www.pythonanywhere.com/user/Christi003/webapps/#id_christi003_pythonanywhere_com

2. Manual Procedure of MySQL, Flask, Python
   Using the manual setup, could able to launch web application to test the ToDo Application.

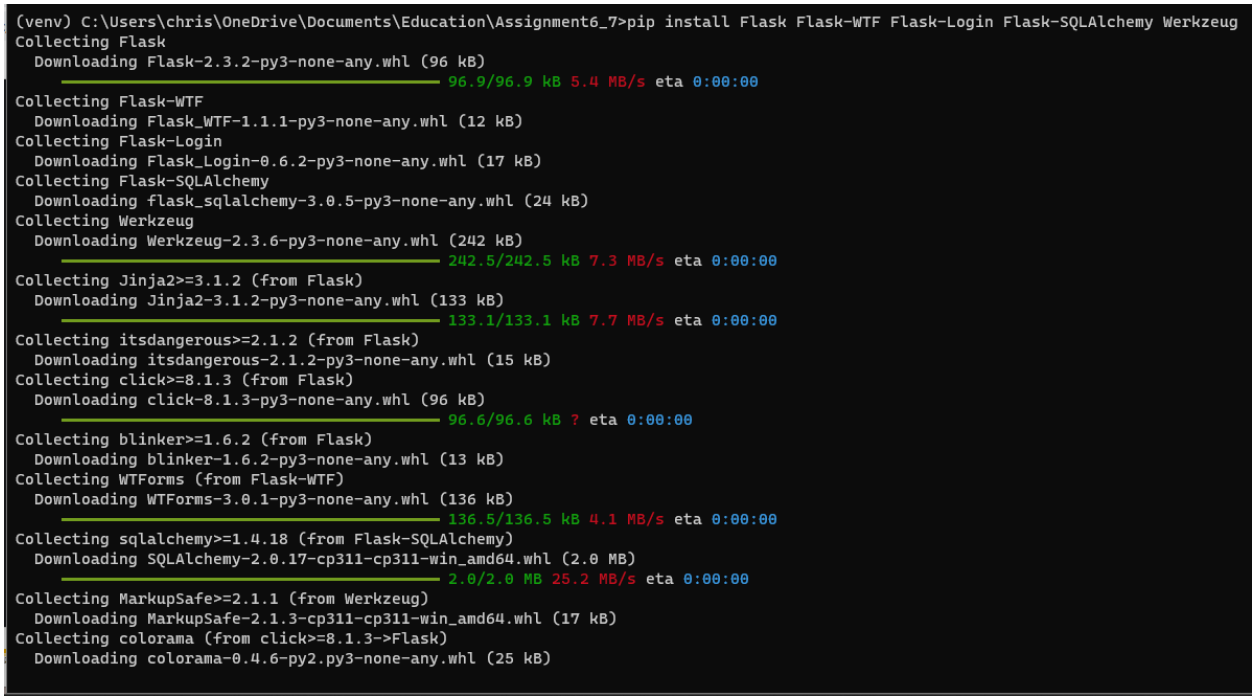
Manual Procedure of MySQL, Flask, Python installation and configuration

Follow the step-by-step instructions to test the ToDo application.

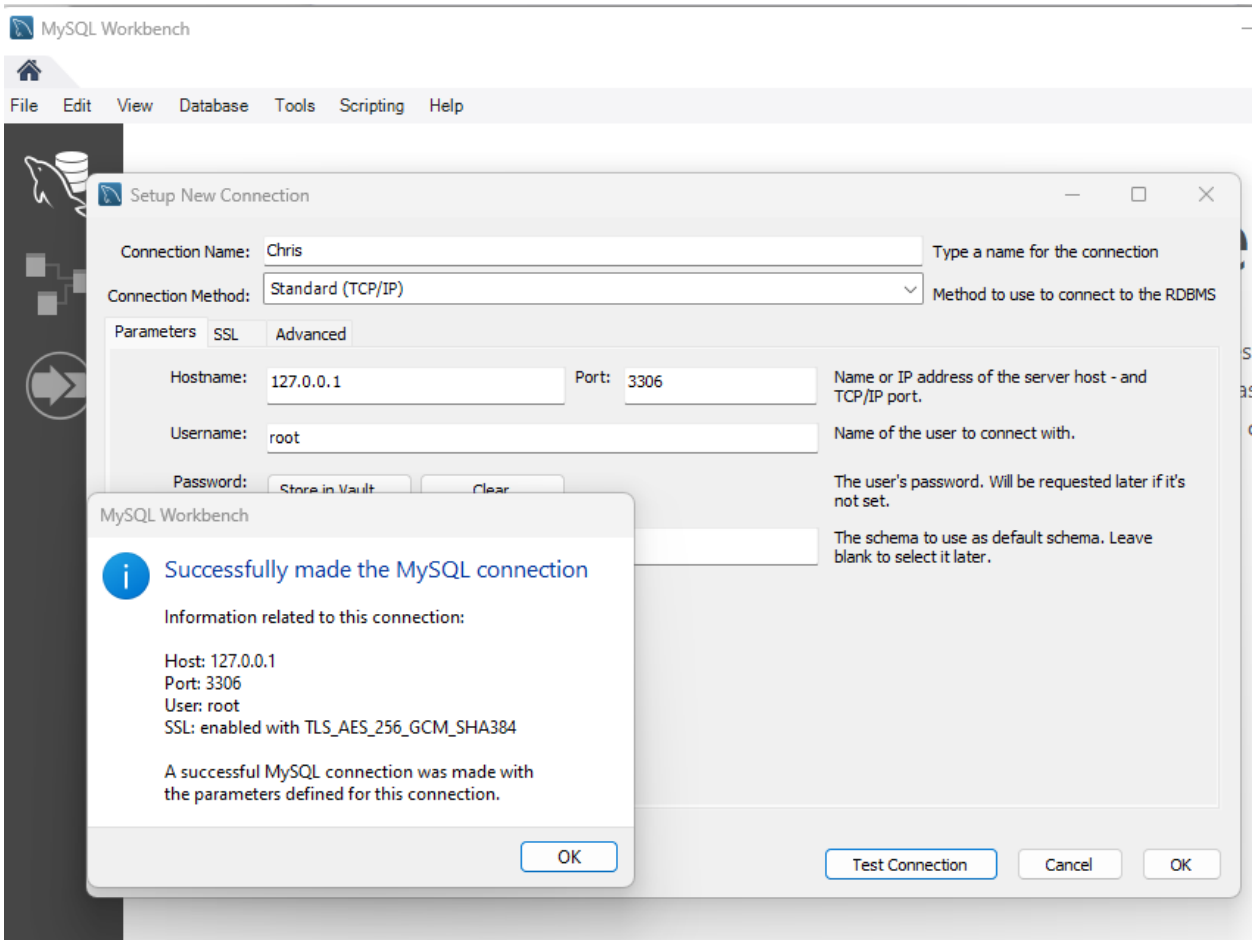
1. Python
   - Install python 3.11.x from Microsoft Store
   - Verify the version using the command
     Cmd: python –version

```
C:\Users\chris>python --version
Python 3.11.4
```

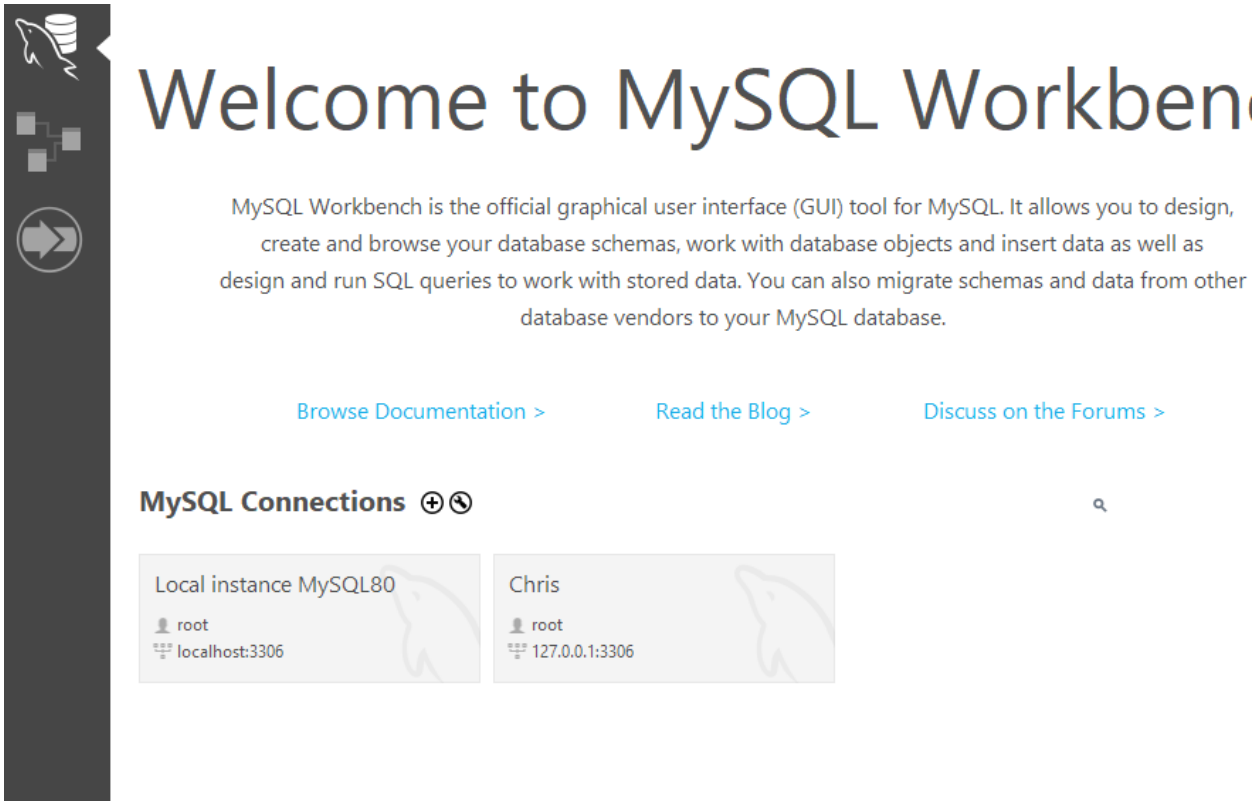
2. Flask
   - Install the below required packages
   - Pip install Flask Flask-WTF Flask-Login Flask-SQLAlchemy Werkzeug Flask-Login mysqlclient pymysql



3. MySQL
   - MySQL Workbench, MYSQL Command Line Client will be installed in MYSQL package.
   - Install MYSQL and launch.
   - create username and password.



- “Welcome to MySQL Workbench” page will be displayed with username.



- Verify the status of mysql as below from cmd prompt

```
C:\Users\chris>mysqladmin -u root -p status
Enter password: *************
Uptime: 1017  Threads: 2  Questions: 6527  Slow queries: 0  Opens: 291  Flush tables: 3  Open tables: 199  Queries per
second avg: 6.417

C:\Users\chris>
```

- Open MYSQL Command Line Client

```
MySQL 8.0 Command Line Cli
Enter password: *************
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 23
Server version: 8.0.33 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```
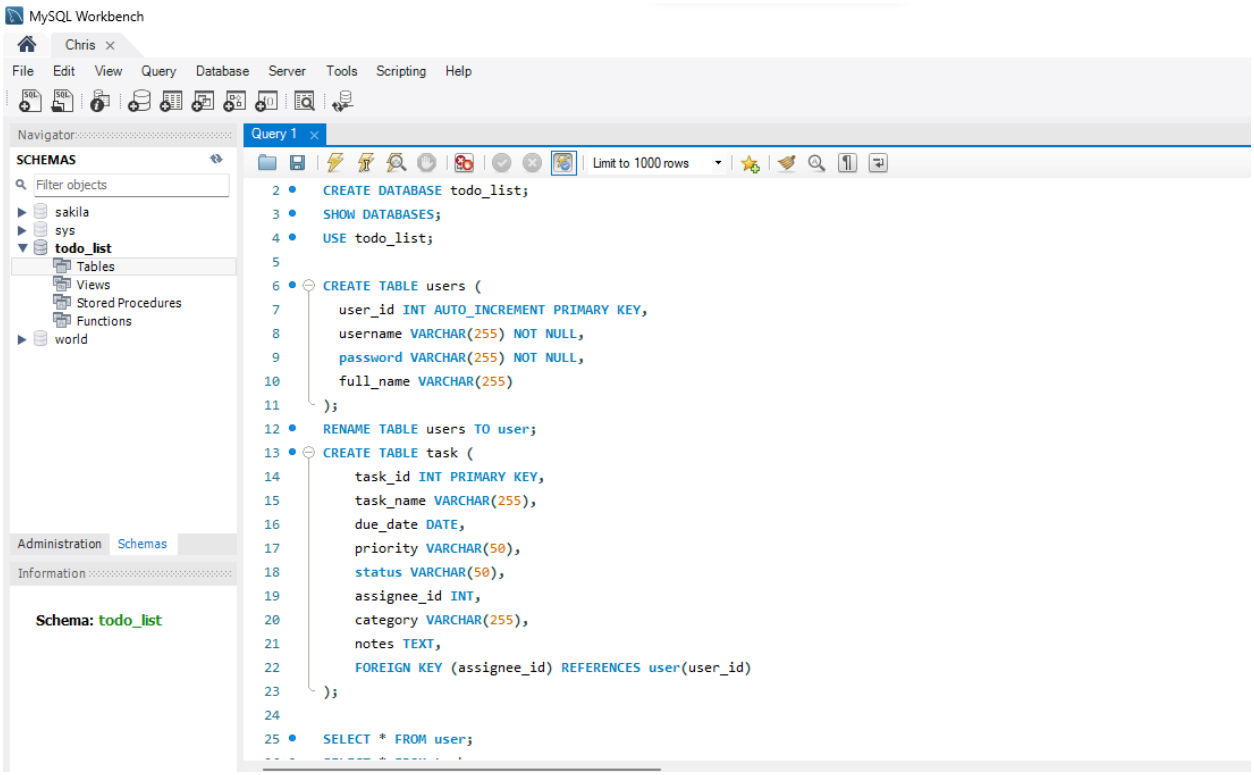

4. Create Database and tables in MySQL workbench



5. Create a virtual environment
   Cmd: python -m venv <env_name>
   Active virtual environment

```
C:\Users\chris\OneDrive\Documents\Education\Assignment6_7>python -m venv chrisenv

C:\Users\chris\OneDrive\Documents\Education\Assignment6_7>chrisenv\Scripts\activate

(chrisenv) C:\Users\chris\OneDrive\Documents\Education\Assignment6_7>
```

6. Execute the python file
   - Python ToDo_app.py

```
(chrisenv) C:\Users\chris\OneDrive\Documents\Education\Assignment6_7>p
ython ToDo_app.py
 * Serving Flask app 'ToDo_app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production d
eployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 713-746-889
```

7. Open the browser and provide the ip:portnumber as below
   127.0.0.1:5000

   Web page is launched successfully and able to register, login, create, view, edit and delete task.