Sashin Tulsiram

sashintulsiram@gmail.com

sashin tulsiram – full stack developer challenge

ReadMe

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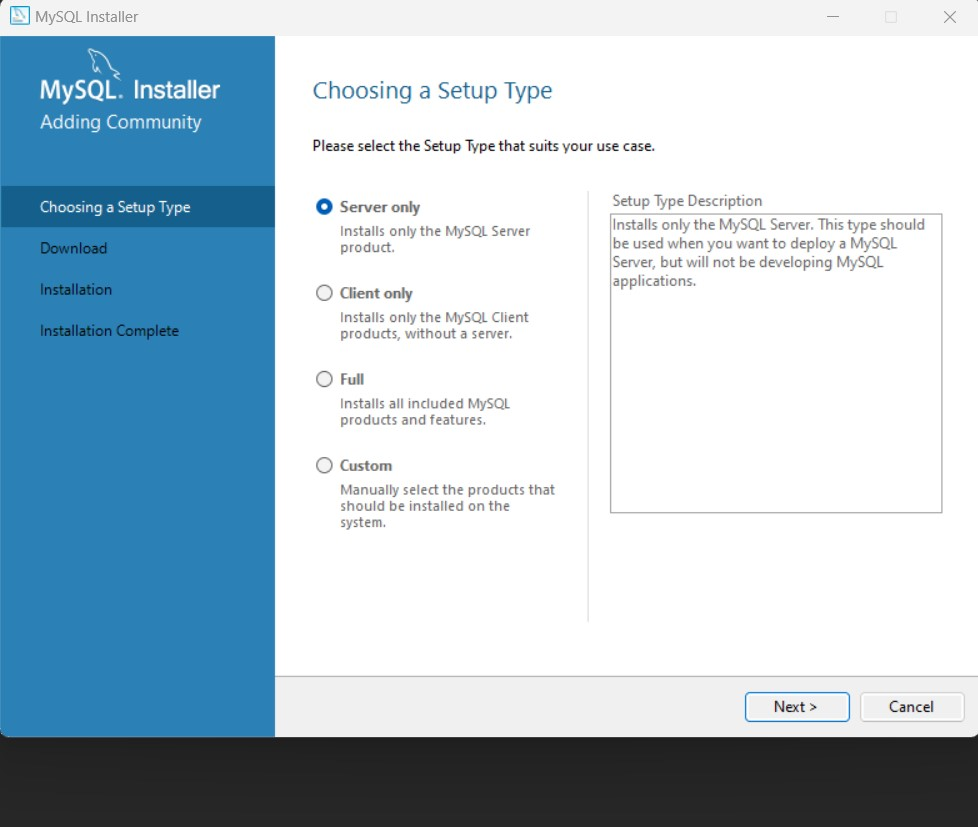
# Introduction

This project was developed according to the Full Stack Development Challenge - it was developed using Python, MySQL, React and a custom developed REST API using Python. Please note that this ReadMe was compiled and tested on a Windows 11 Operating System.

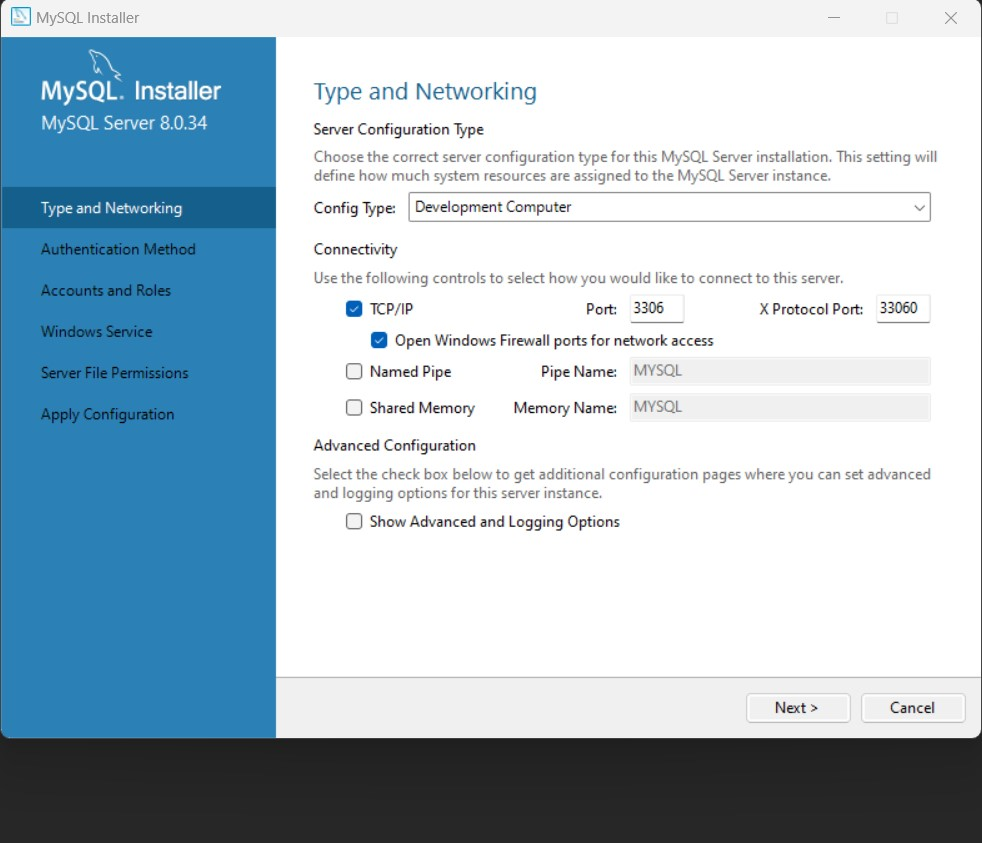
# Application Prerequisites

## Set Up MySQL Server

1. Download and install: <https://dev.mysql.com/downloads/mysql/>
2. Select the option for server as shown below then click “Next”.



1. Click Next until the installation and finished.
2. A configuration wizard for the database will appear thereafter. Use the default settings for networking.



1. For account and roles, enter the below root password:
   1. Root password: Fu11St@ckCh@113ng3

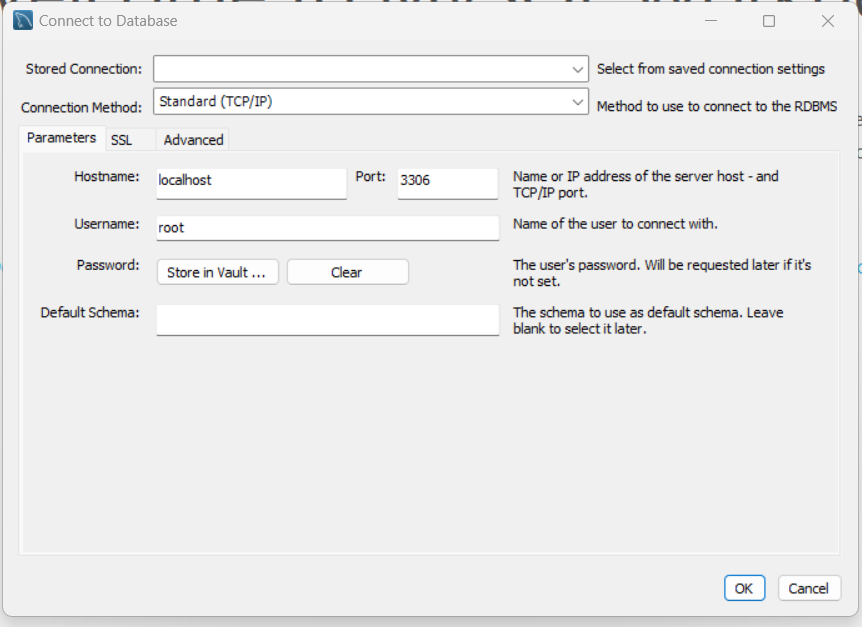
A screenshot of a computer

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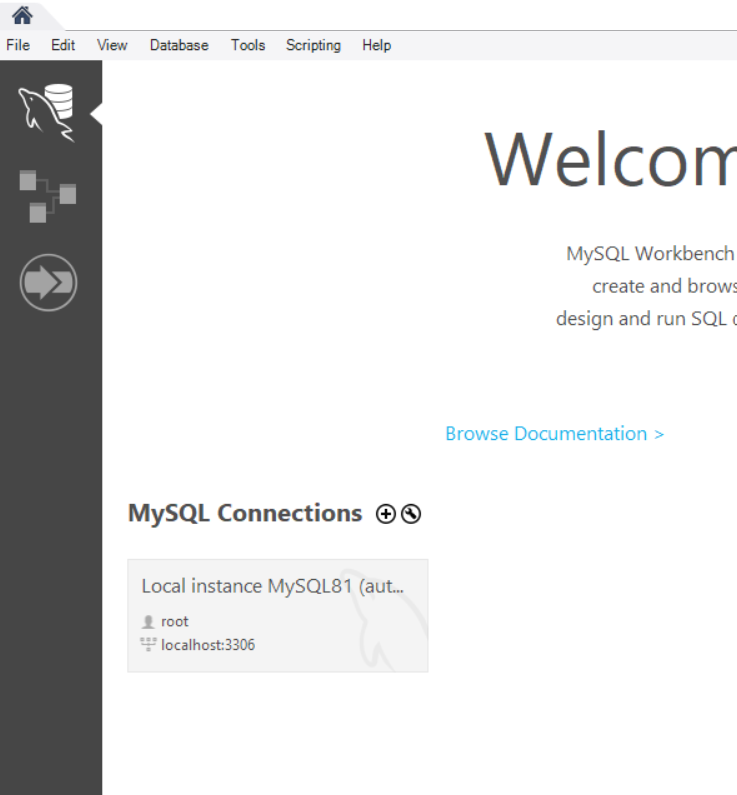
1. Thereafter, click next until the configuration has completed.

## Set up MySQL Workbench and import database

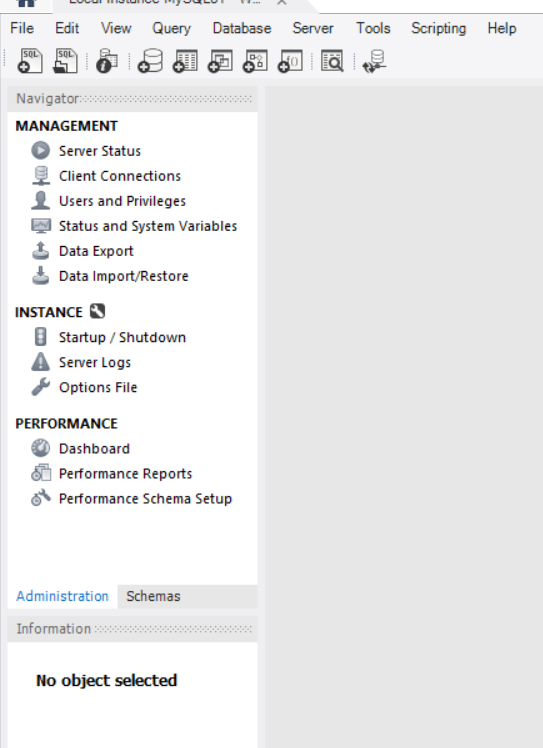
1. Download and install: <https://dev.mysql.com/downloads/installer/>
2. Follow the onscreen prompts until the installation is complete.
3. Access the GitHub software repository and download the exported database which will be in the folder named Database.
4. Open MySQL workbench. Navigate to Database > Connect to Database from the menu at the top of the application.
5. Replicate the below configuration. Select the button named “Store in vault” and enter the password for the root account then select OK.



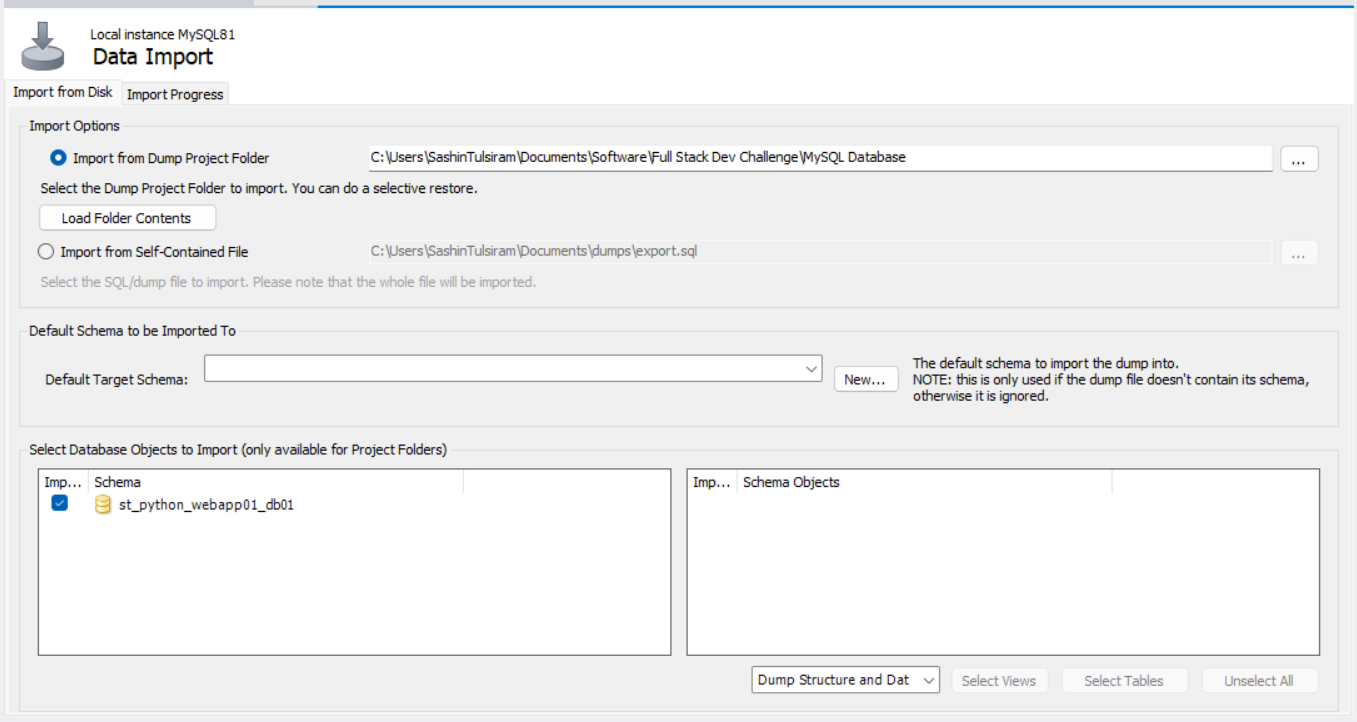
1. After adding a connection, you will see the connection added under MySQL connections. Select this connection.



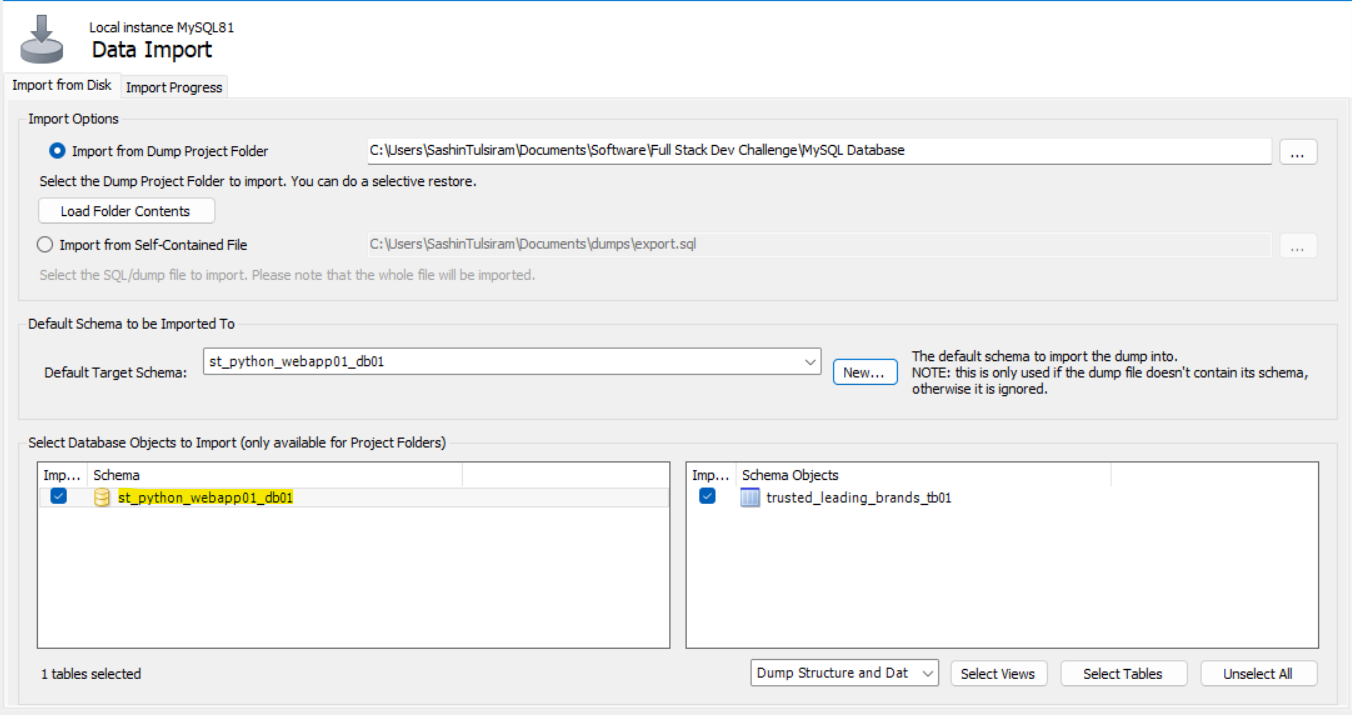
1. From the MySQL connection, select the Data Import/Restore option for the menu on the left.



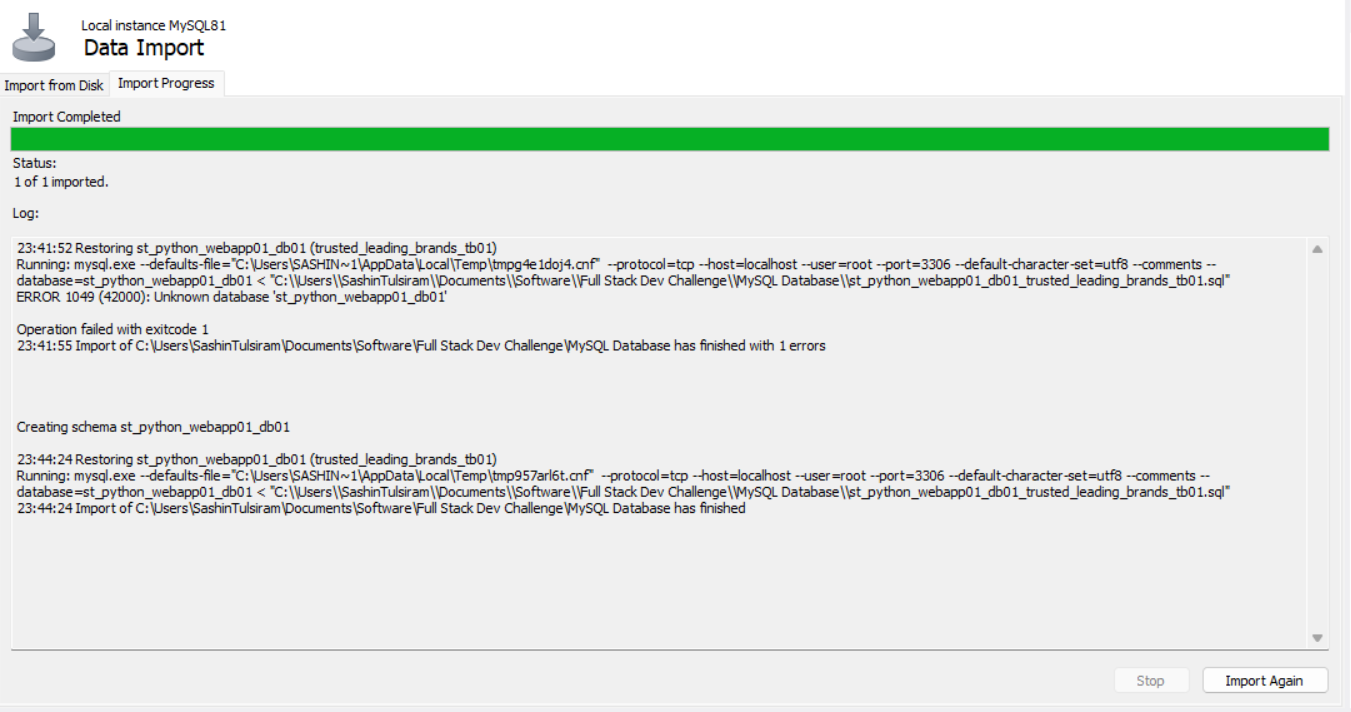
1. Select the Import from dump project option and select the folder with the downloaded Database Export from GitHub.



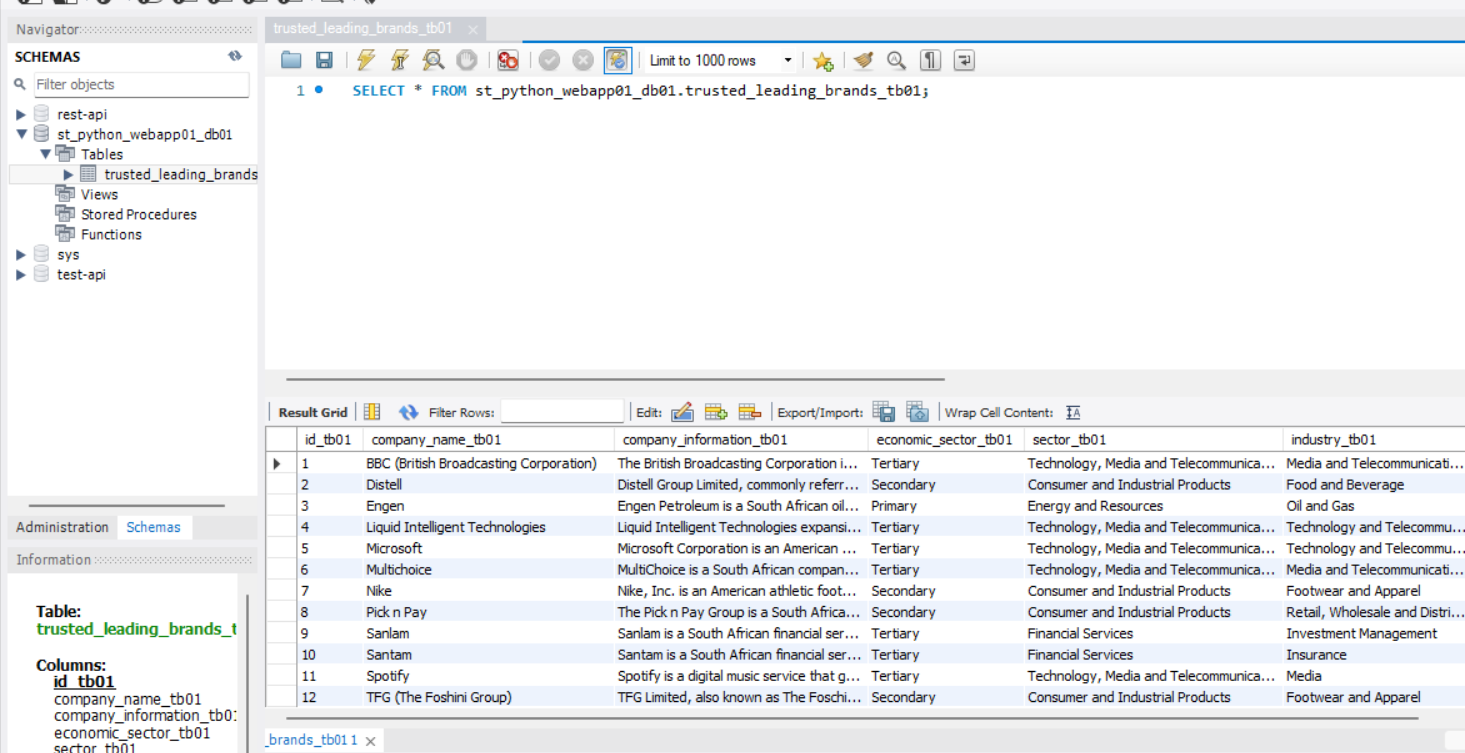
1. In the Default Schema field, click on the New button then enter in st\_python\_webapp01\_db01 for the Default Schema name. Click on the highlighted schema as shown in the image below. This will update the schema objects table.



1. Next, click on the tab at the top named Import Progress and select the button to Start Import.



1. You will then be able to access the database from MySQL workbench and view the data stored in the database.



## Install NodeJS 20.5.1

1. Download and install NodeJS: <https://nodejs.org/en/download/current>

## Install Python 3.11.x

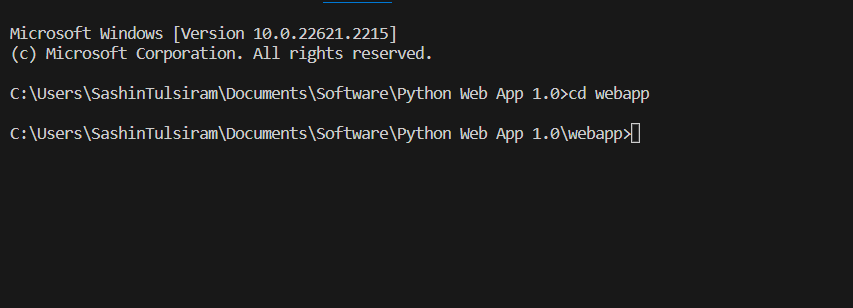
1. Download and install Python: <https://www.python.org/downloads/>

## Clone the GitHub repository

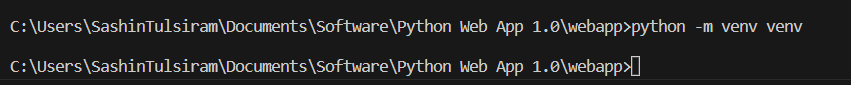
## <https://github.com/sashintulsiram/Python-Web-App-1.0/tree/build>

## Create a virtual environment

1. From CMD, open the directory for the cloned GitHub repository and run the command: cd webapp



1. Run the command: python -m venv venv



1. Run the command: venv\Scripts\activate

A black screen with white text

Description automatically generated

1. Run the command: pip install -r requirements.txt

A computer screen shot of a black screen

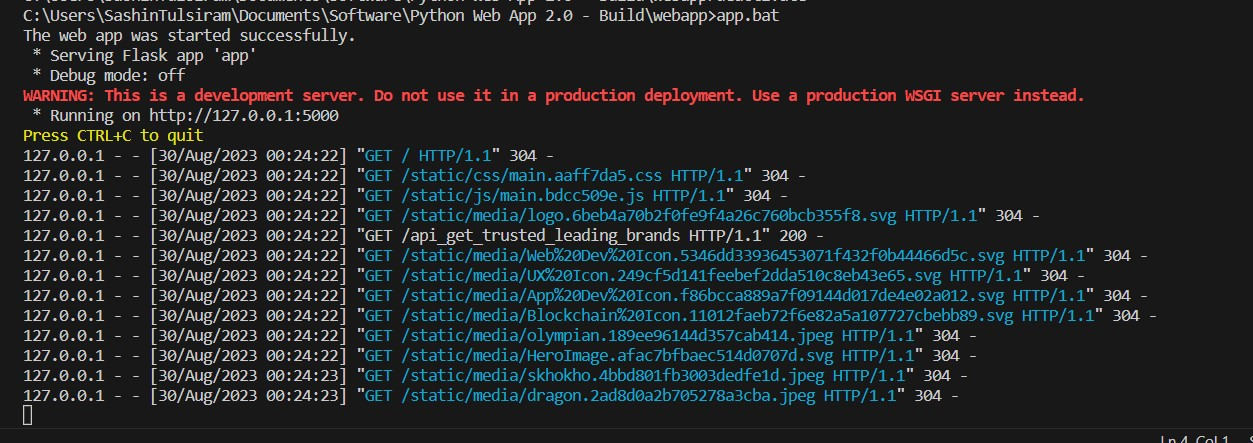
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1. Run the command: deactivate

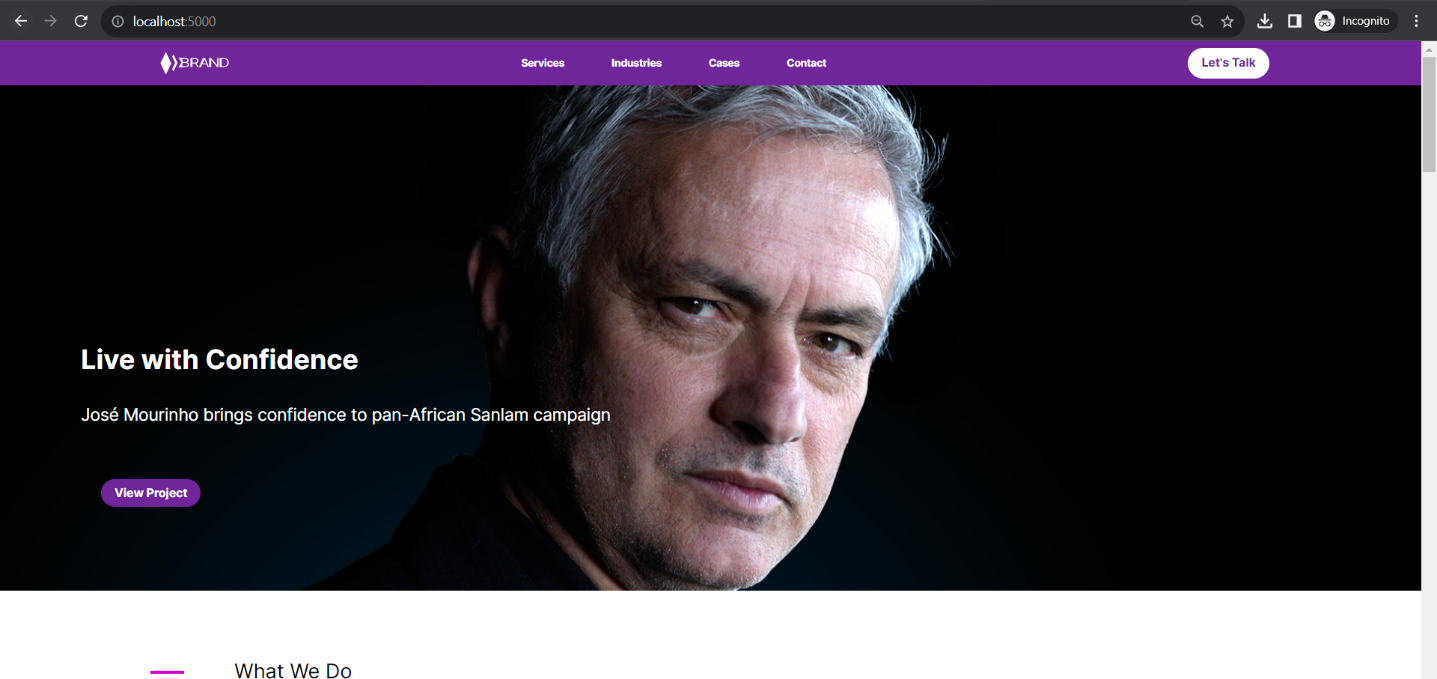
# Test Web Application

## Start Web Application

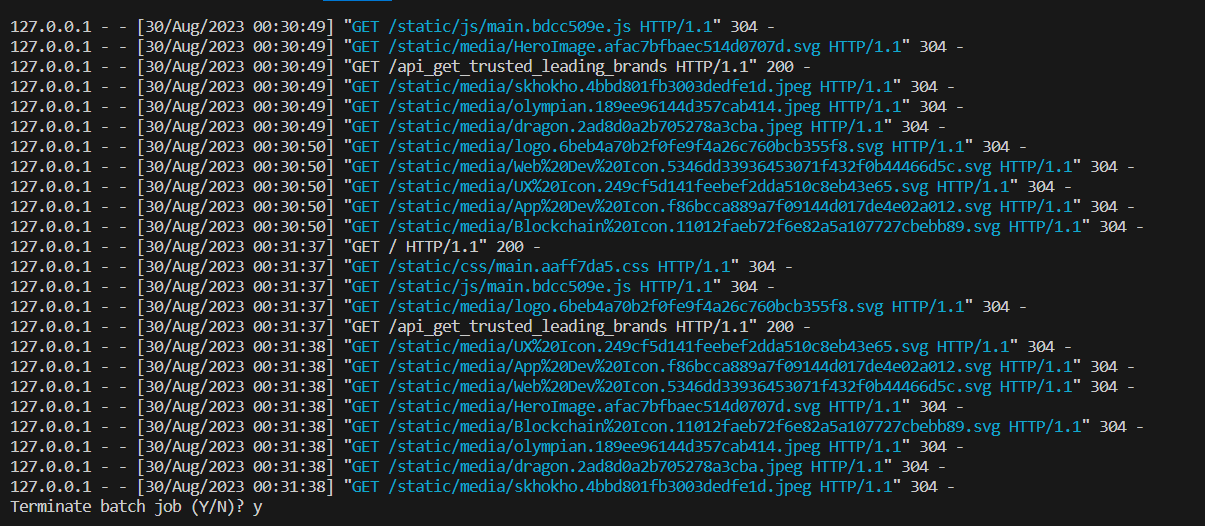
1. Start Python Web Application –
   1. From CMD, open the directory for the cloned GitHub repository and run the command: cd webapp
   2. Run the command to start the web application which will activate the virtual environment and run the python web application file: app.bat



1. The web application will be served on <http://localhost:5000>. Open this URL in your web browser to access the application.



1. To stop the web application, go back to the CMD terminal where you have run the app.bat command from. Type CTRL+C and then ‘y’.



1. Run the command to deactivate the virtual environment: deactivate

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Description automatically generated

## Using Filter Search

1. From the webpage, you will be able to use the filter search option to search for Trusted Brands in the following fields:

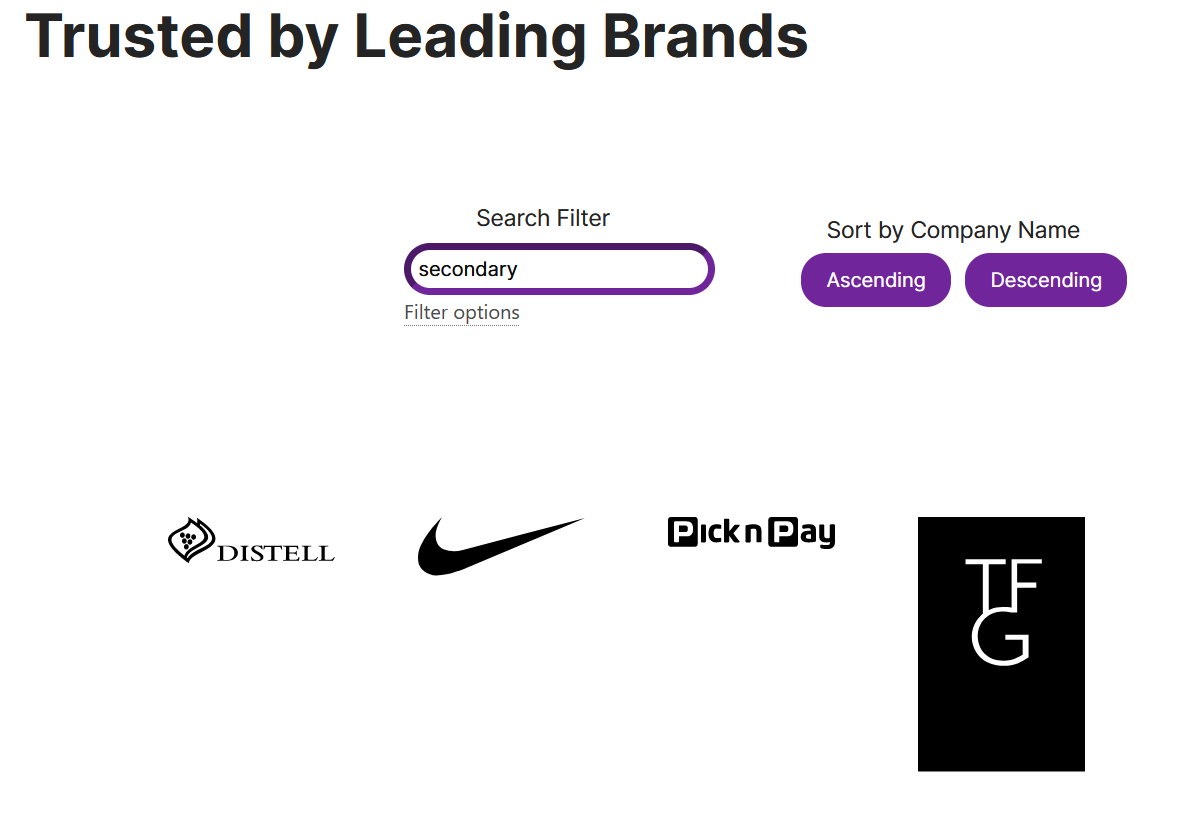
* Company name: Enter in the name of the company.
* Economic Sector: Primary / Secondary / Tertiary
* Industries: Food and Beverage, Investment Management, Banking and Securities, Insurance, Footwear and Apparel, Technology, Telecommunication, Media
* Sector: Technology, Telecommunications, Consumer, Retail, Energy and Resources, Financial Services.

A screenshot of a computer

Description automatically generated

## Using Sort Button

1. From the webpage, you will be able to sort the Trusted Brands retrieved from the API in alphabetical order.



A screenshot of a website

Description automatically generated

## Illustration of Web Application

A person looking at the camera

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a website

Description automatically generated

A screenshot of a video

Description automatically generated

A screenshot of a computer

Description automatically generated

A group of logos on a white background

Description automatically generated

A purple background with white text

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a website

Description automatically generated

# Contact Information

Please contact me on any of the below channels if you require assistance in setting up your web application.

* Email: sashintulsiram@gmail.com
* Phone: 074 939 6705
* WhatsApp: 074 939 6705