

Environment Setup For MySQL Server

1. Download the disk image (.dmg) file (the community version is available on [MySQL :: Download MySQL Community Server](#)) that contains the MySQL package installer. Double-click the file to mount the disk image and see its contents.
2. Double-click the MySQL installer package from the disk. It is named according to the version of MySQL you have downloaded. For example, for MySQL server 5.7.44 it might be named *mysql-5.7.44-macos-10.13- x86_64.pkg*.
3. The initial wizard introduction screen references the MySQL server version to install. Click Continue to begin the installation.
4. The MySQL community edition shows a copy of the relevant GNU General Public License. Click Continue and then Agree to continue.
5. From the Installation Type page click on Install to execute the installation wizard using all defaults.
6. After a successful installation, the installer displays a window with your temporary root password. This cannot be recovered so you must save this password for the initial login to MySQL.
7. Summary is the final step and references a successful and complete MySQL Server installation. Close the wizard. MySQL server is now installed, but it is not loaded (or started) by default.
8. Open the System Preferences from the Apple menu. Click on the MySQL icon available at the last row of System Preferences. After clicking on MYSQL Icon it shows the current status of the MySQL server, showing stopped (in red) if the server is not running and running (in green) if the server has already been started.
9. If the server has not started Click Start MySQL Server. You may be prompted for the username and password of a user with administrator privileges to start the MySQL server.
10. You can close the System Preferences window once you have completed your settings.

Environment Setup For MySQL WorkBench

MySQL Workbench for macOS is distributed as a DMG file. The file is named mysql-workbench-community-version-osx.dmg, where the version is the MySQL Workbench version. MySQL Workbench provides platform support for the latest version of macOS only (See Supported Platforms: [MySQL :: Supported Platforms: MySQL Workbench](#)).

Downloads are available at [MySQL :: Download MySQL Workbench](#)

To install MySQL Workbench on macOS, download the file. Double-click the downloaded file to open the installation window

Drag the MySQL Workbench icon onto the Applications icon. MySQL Workbench is now installed. You can now launch MySQL Workbench from the Applications folder or from the command line.

Environment Setup For Python

1. Go to this Link <https://www.python.org/downloads> and click on downloads option.
2. Double-click on the downloaded .pkg file Installation wizard will open.
 - a. In the Introduction screen click continue.
 - b. In Read me Screen click on continue.
 - c. In the Licence Screen click on continue and then click on agree.
 - d. In the Installation Type Screen click on Install and enter your Apple user password.
 - e. After the installation one window will open in that window double-click on the Install Certificates.command file.
 - f. In the summary screen click on close. You have successfully installed Python in your system.

3. Set MySQL and Python Path:-

- Go to the terminal and enter a nano ~/.zshrc command then the shell window will open.
- In the shell Window Enter export
PATH=/Library/Frameworks/Python.framework/Versions/3.12/lib:/usr/local/mysql/bin:\$PATH
- Then click control +o (WriteOut)
- Click Enter
- Control + X (To Exit the zshrc)
- After this use the command source ~/.zshrc in the terminal to save the path.

Web_Crawl PracticeArea Application Setup

1. Install MySQL Server

2. Install MySQL Workbench

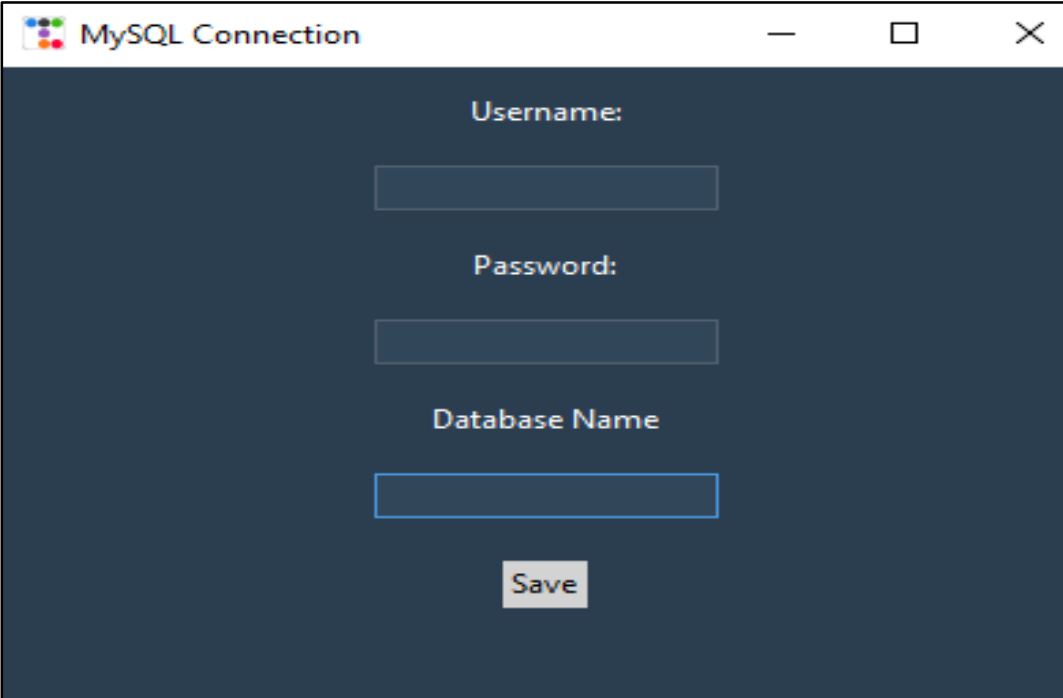
- Go to the terminal and enter a nano ~/.zshrc command then the shell window will open. Then click control +o (WriteOut).
 - After that click Enter and then use control +x (To Exit the zshrc). After that use the command source ~/.zshrc in the terminal to save the path.
 - Then in the terminal use the command pip install nltk and click on Enter.
 - After successfully installing the nltk library, use command pip install stanza and click on Enter.
 - After successfully installing the stanza library, use command pip install ttkbootstrap and click on Enter.
- ### 3. Setup after downloading the Web_Crawl PracticeArea Project folder
- Right-click on the folder and then click on New Terminal at the Folder option.
 - In the terminal enter the command chmod +x Web_Crawl PracticeArea (Executable file name) and click enter.
 - Now you are ready to start the Application by double-clicking on the Executable file present in the folder.
 - If you want to run your application with an existing database then there is no need to go for the next step.

4. Change the Database setting (Optional step)
 - In Select Setting Option click Database setting. After clicking on Database settings enter the new database name and click on save.
 - Then close the Window and again run the Executable file.
 - You have successfully changed the database setting.

Instruction Manual

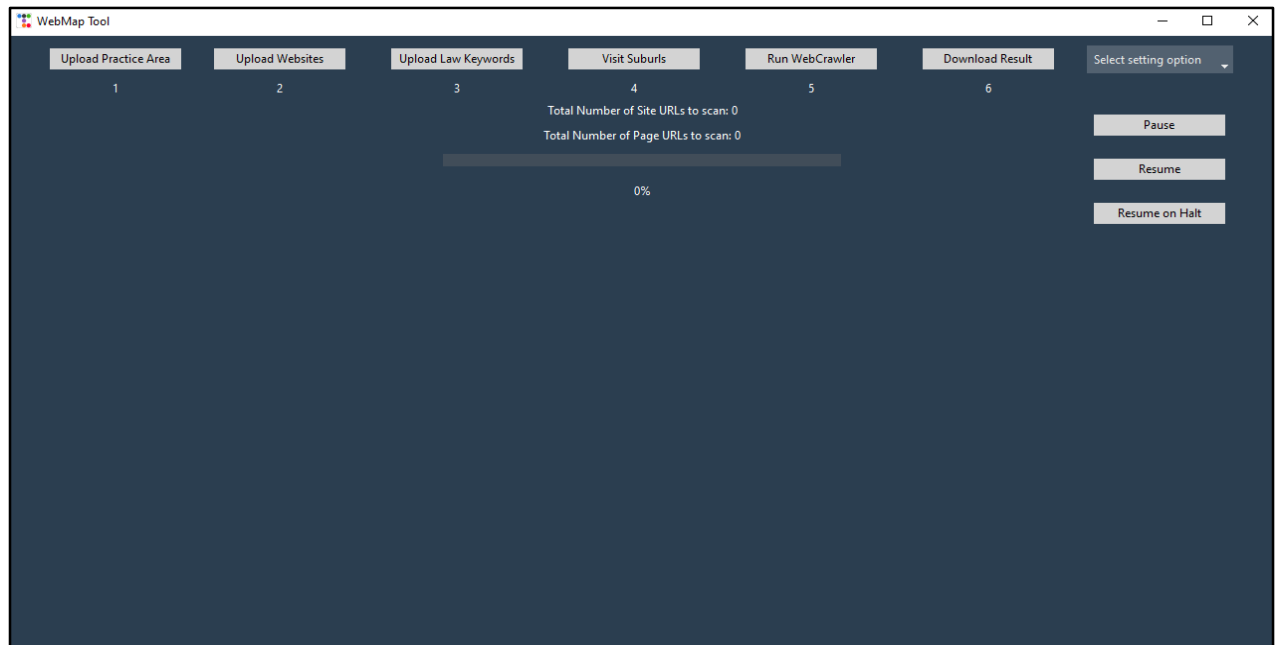
The step-by-step guide to give a quick walkthrough of the application.

Set-up a Database :-

A screenshot of a window titled "MySQL Connection". The window has a dark blue background and contains three text input fields. The first field is labeled "Username:", the second is labeled "Password:", and the third is labeled "Database Name". Below these fields is a "Save" button. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

After clicking on the executable file a database connection window will open. In this window, you have to insert your MySQL username, password and database name where all your tables will be automatically created. After inserting all three fields such as username, password and database name, all your details will be

saved. Setting-up a database is a one-time process.



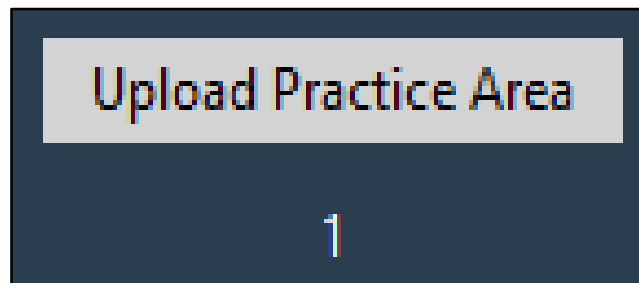
- Upload Practice Area :

Click on the upload keyword csv button and upload the keyword csv file which contains the keywords to be searched on the page and site URLs.

Note:-

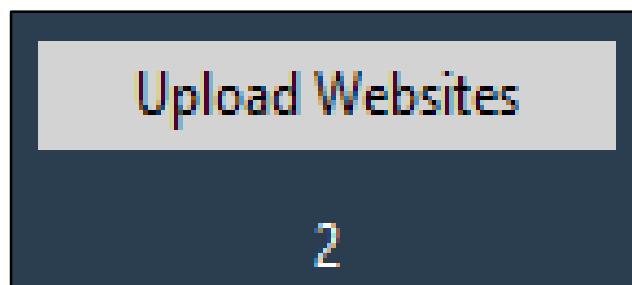
- 1) Under the same practice area if you have two or more keywords in the keyword column then you can separate the keywords by using the semicolon or comma.
- 2) Before uploading the keyword CSV file ensure that you have added weightage for each keyword in the weightage column.
- 3) If you have two or more keywords for the same practice area, then in the weightage column give the unique weightage number and you can

separate it by using a semicolon. (ex : keywords:- trust; competition ,weightage :- 2;3)



- Upload Websites :

Click on the upload site csv button and upload the site csv file which contains all the urls.



- Upload Law Keywords :

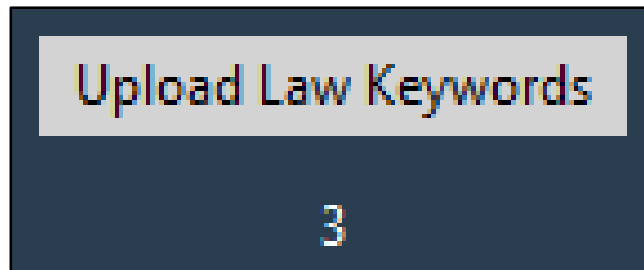
Click on Upload Law Keywords to upload the law keywords, along with their threshold and priority values. If any of the uploaded keywords are found on a site URL, the URL is evaluated based on the threshold and priority to determine if it is a law firm website or a non-law firm website.

Suppose the uploaded keywords are:

Keywords	Threshold	Priority
attorney	4	1
law	20	2

Case i) If the keyword "attorney" (which has a priority of 1) is found on the URL, the threshold is checked. If the occurrence of the keyword "attorney" is greater than 4, the URL is considered a law firm website otherwise non-law firm.

Case ii) If the keyword "attorney" is not found on the URL or its occurrence is below the threshold value, the next keyword, "law", is checked. If the keyword "law" is found with a threshold of 10, the URL is considered a non-law firm website since the threshold of 20 for "law" is not met.

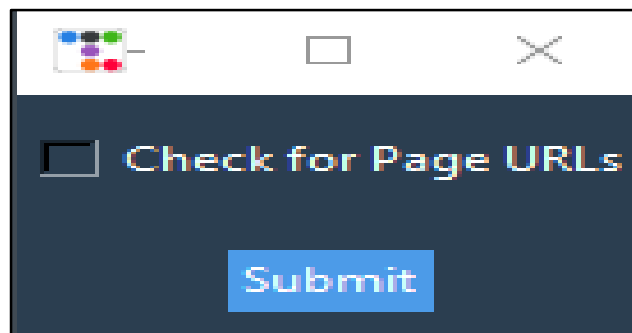
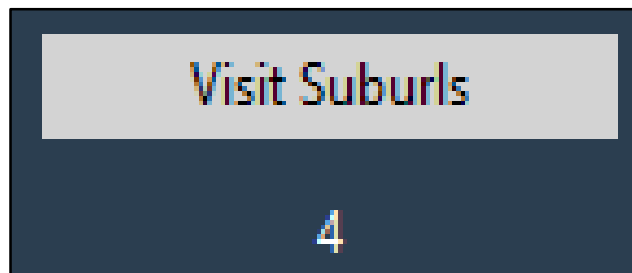


- Visit Suburls :

There are 2 cases for the check button.

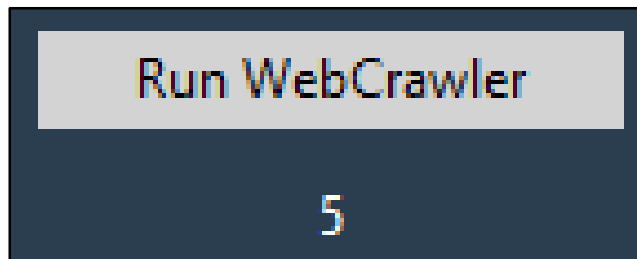
Case 1) If you want to find keywords on all page_urls then click on the check button. After that one pop-up window will open and if you check the checkbox and click on the submit button then go to the next step and click on the run web map button.

Case 2) If you want to find keywords only on site_urls then you don't have to click on the check button, directly click on the run web map button.



- Run WebCrawler :

If you have checked the check for page_url checkbox and clicked run web map then it will search for keywords on all page_urls and if you click on the run webCrawler button without checking the checkbox then it will find keywords only on site_urls.

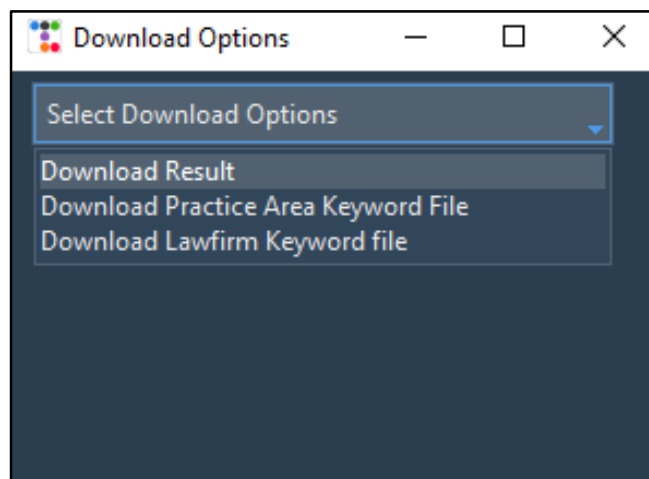
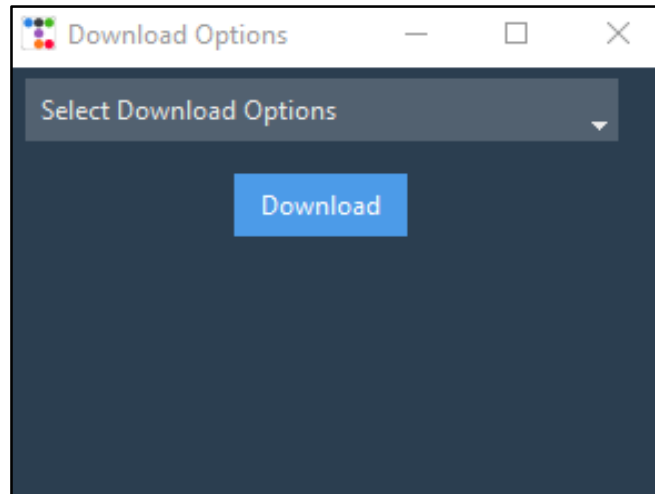


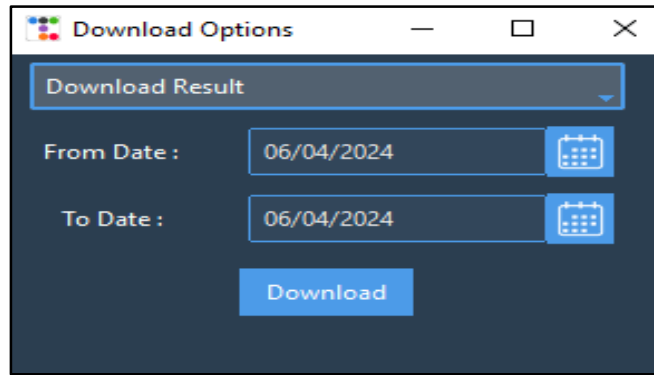
- Download Result:

After completing the process of finding keywords on at least one url you can download the result. To download the result ,first you have to pause the current execution using the pause button and then you can download by clicking on download button.After click on download button one pop_up window will open and you can choose the options such as download result with selected date range,download practice_area keyword file and download law_firm keywords.



- Select Download Options :





Download Options

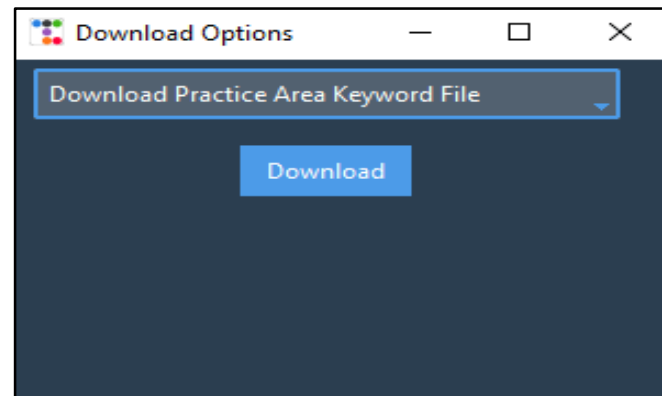
Download Result

From Date : 06/04/2024

To Date : 06/04/2024

Download

6.1

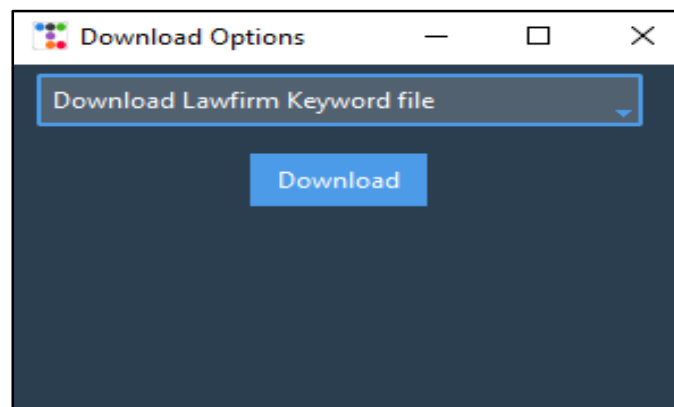


Download Options

Download Practice Area Keyword File

Download

6.2



Download Options

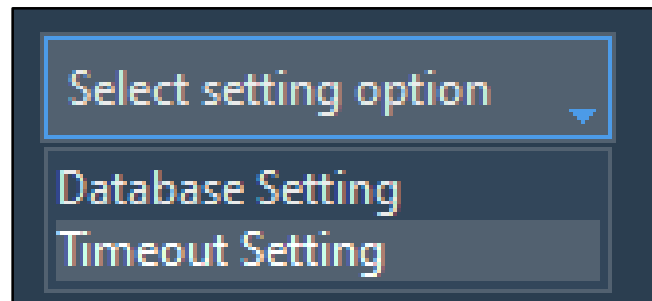
Download Lawfirm Keyword file

Download

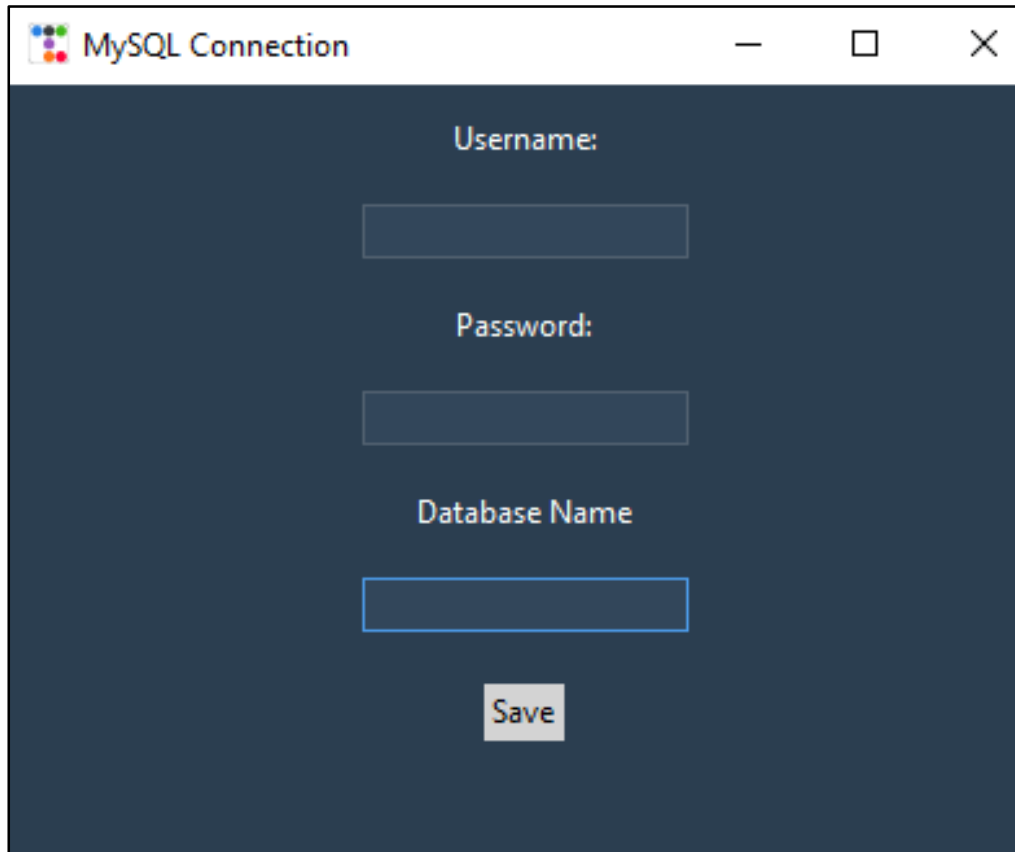
6.3

- Select Setting Options :

Select Setting Option has multiple settings options like Database Setting, Timeout Setting etc.



➤ Database Setting

A screenshot of a window titled "MySQL Connection". The window has a dark blue background and contains three text input fields. The first field is labeled "Username:", the second is labeled "Password:", and the third is labeled "Database Name". Below the input fields is a "Save" button. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

MySQL Connection

Username:

Password:

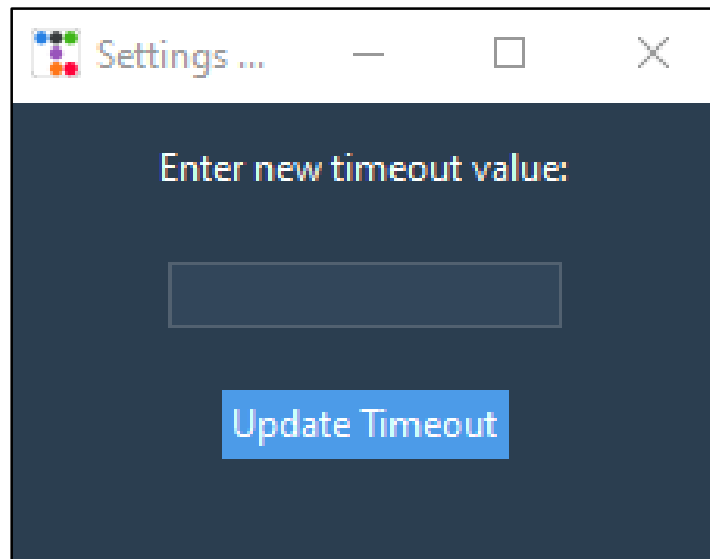
Database Name

Save

In the database setting, you can change your MySQL username, password and database name.

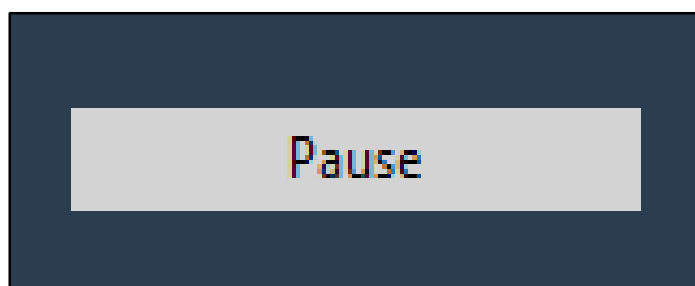
1. In Select Setting Option click Database setting. After clicking on Database settings enter the new database name and click on save.
2. Then close the Window and again run the Executable file.
3. You have successfully set up the new database.

➤ Timeout Setting



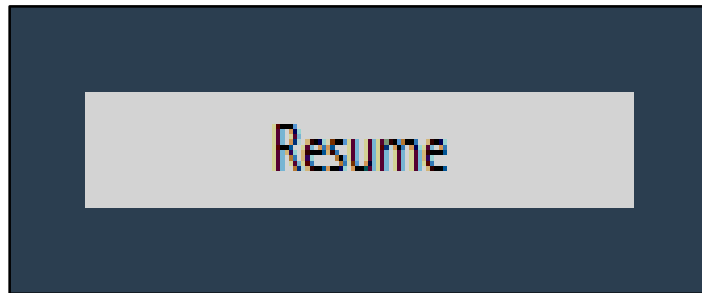
In the timeout setting, you can update your timeout value.

- Pause Button



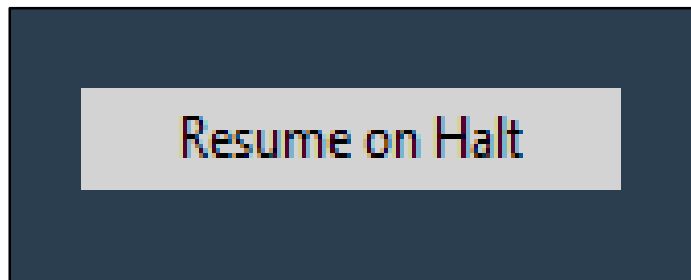
If you want to pause the process of finding keywords on the specific page or site urls then you can pause it using the pause button option.

- Resume Button



If you want to resume the process of finding keywords from the paused page or site urls then you can resume it using the resume button option.

- Resume on Halt



If the application got interrupted by unexpected reasons then you can resume the process of finding keywords on the page or site URLs file by using the resume on halt button without uploading the keyword and site CSV.