Vex System

Technical Manual

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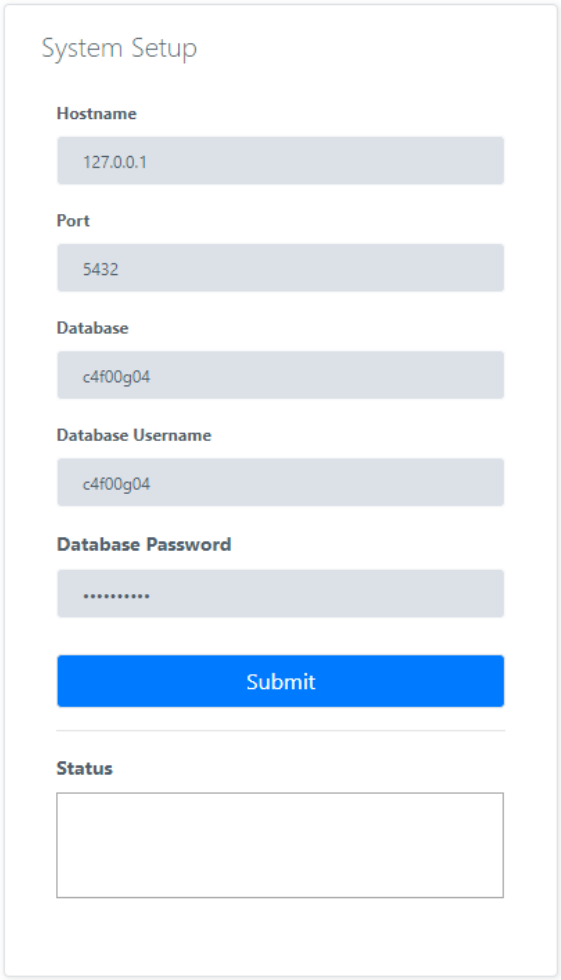
1. Installation Manual

The vex system requires Httpd, PHP and Postgresql environments, if missing one of those environments please visit their page and install those environments.

After the environment has been setup, move the system files into the html directory, and make sure all the php permission are correct.

Open the link through browser: http://YOUR_OWN_HOSTNAME/PATH/setup.php or http://localhost/PATH/setup.php it will open the one-time setup page, and enter the database information.

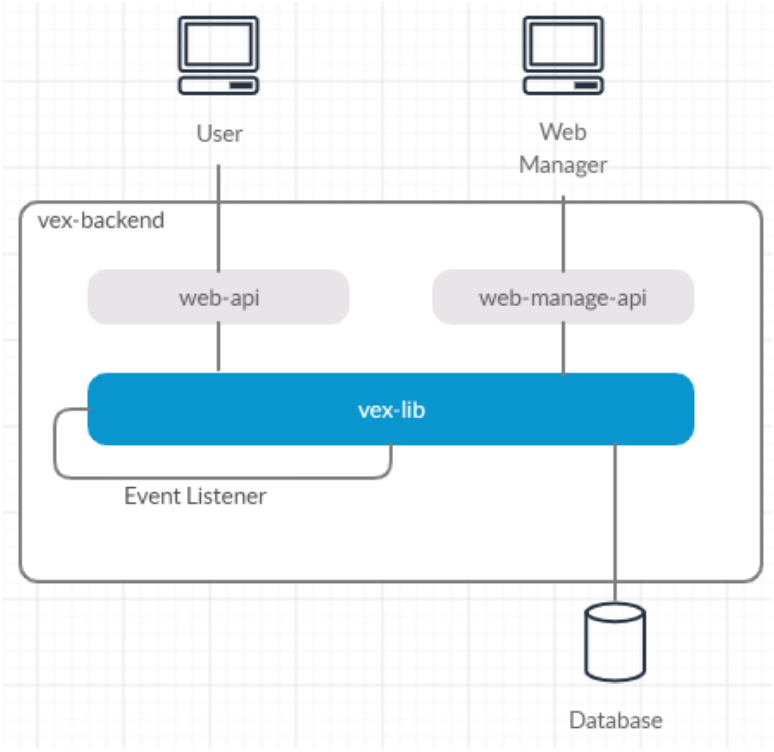


Please make sure all the information that you entered is correct. Once established the connection with the database, it will automatically create required tables and insert

default data. Once the status returns this message below, it means the system has been setup.

If received an error, please see the troubleshoot at **Appendix A**.

2. System Architecture



The system is divided into two part, front-end and back-end. The front-end are used by jQuery, which will handle all the user's action events, components' structure, and communicate to the backend. As user trying to access the system, the front-end will prepare the access request, pack all the data into and send it through back-end using ajax POST or GET requests.

The system's back-end is implemented by PHP, which most of PHP files requires to access the Postgresql, a configure file has to be setup, which will use and connect to the database. As front-end send a request to the back-end, the request contains the type of operation, once the back-end receive the request, it will retrieve the operation type and perform the specific operations.

3. Maintenance Manual

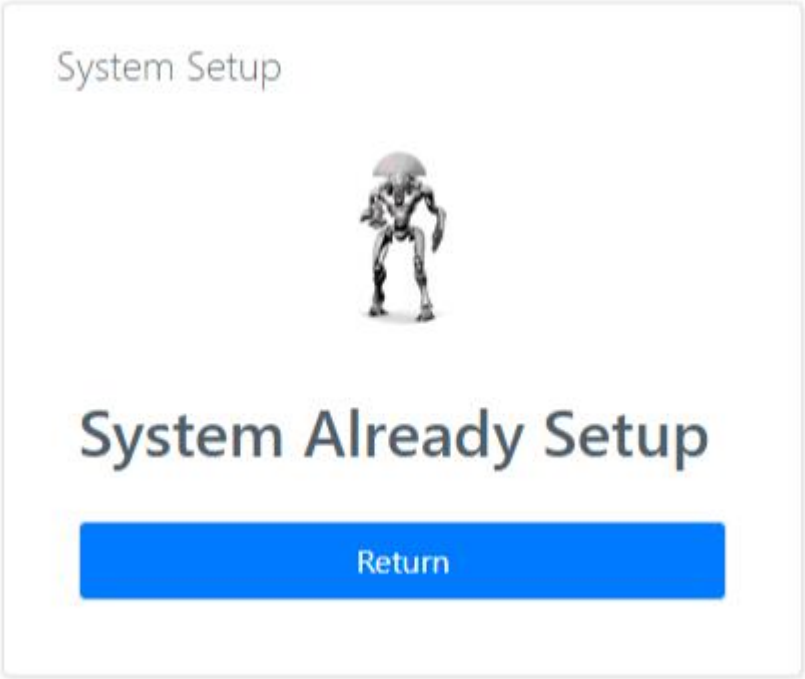
As technical team maintaining the system, any changes are required to log in the change log, update the source code in github and documentation.

As technical team/user getting error from the system, each error has been assigned an error code, which defined in SRS's code conversion. Most of the common error will be triggered by sending an incorrect request, such as user intended to pass wrong page id, etc. Once the error happened, an error code will be present, the technical team will be able to track the errors by through the code conversion table, or the error message displayed in the message dialog.

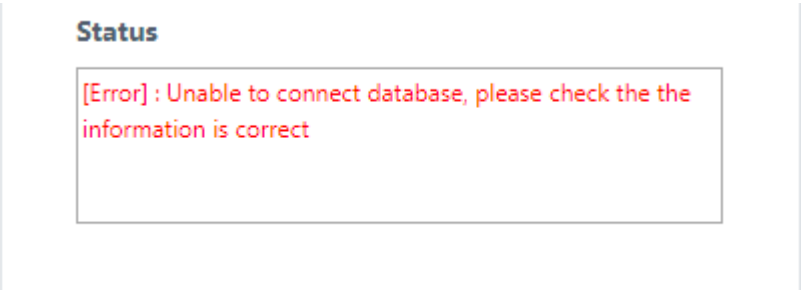
Also, a logger is implemented in system, once an error has been occurred, a detail error message will be logged into the log file, thus the technical team could access the log file, which help the technical team to trace back, represent and resolve the issues.

Appendix A: Troubleshoot

- If you receive this message below, it means system has already been setup.



- If you receive this message below in status. Please make sure you entered correct database information, or the pgsql services are enabled.



- If you receive this message below in status. That means some table has been created, please double check the database. (may drop the exists tables, may cause data loss)