Wits Cab Back-End Server User Manual

Welcome to the Wits Cab Back-End Server Instruction Manual.

1. System Requirements
   * Operation system : Ubuntu
   * Software: Apache and SQLite
2. How to Install Apache

Apache is free software that runs most of the software servers. If the user does not have the software already installed on their computer, they can download it from:

https://httpd.apache.org/download.cgi

* **To Install Apache:**

The user should run the following commands on Ubuntu terminal:

* + sudo apt-get install Apache2
* **To verifying if Apache has been installed correctly**:

The user should run the following commands:

* + sudo service Apache2 status
* **To stop Apache from running** :

The user should run the following commands:

* + sudo service Apache2 stop
* **To restart Apache:**

The user should run:

* + sudo service Apache2 restart

**Important Notice:**  After changing to Apache configuration, the server should be restarted.

How to change the server to Apache2 configuration:

To configure the server system, the user need to edit the configuration files which are contained in the following files:

* /etc/apache2/
* **To determine the server configuration**:

The user should find the configuration files in the main config file:

* + apache2.conf

Note that this file pieces the other referenced files together to determine the server configuration.

* To determine the ports that the server uses, the user should follow:
  + ports.conf
* To enable or disable mods, the user should see the following files:
  + Install the modules first as this following files apply to installed modules.
  + Mods-enabled/ mods-available
    - conf-enabled/ (and conf-available/)
      * These configuration files manage global configuration
      * serve-cgi-bin.conf allows configuration for cgi scripts
    - sites-enabled/ (and sites-available/)
      * This allows for configuration per website. Typically, only one website is used per server, but multiple websites are allowed. WitsCabs uses 1 website.
      * The default config file is: 000-default.conf
      * Ensure that the DocumentRoot property is set to /var/www/html

1. How to install SQLite

SQLite is open source software which is used to manage data. If the user does not have the software already installed on their computer, they can download by:

* **To install SQLite:**

The user should run the following commands:

* + Sudo apt-get install sqlite3
* **To ensure that SQLite us running:**

The user should run the following commands:

* + Sqlite3
* **To run the queries:**

The user should run the following commands:

* + Run .read<filename>