

Requirements Documentation of PHP Script for Uploading Users

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Revision History

Modified By	Date	Version	Change
Dinesha Dayananda	09-01-2022	0.1	Initial Draft

Overview

A PHP script is required to accept a CSV file as input, parse it, format, validate and upload each row of data to a MySQL database table. The PHP script is executed from command line and its behaviour is controlled by options/directives.

Functional Requirements

- The script accepts a CSV file as input. It is an arbitrary list of user data and has three columns: name, surname, email. The script will iterate through the CSV rows and insert each record into users table of a dedicated MySQL database.

The MySQL table also contains at least the same three fields:

- name
 - surname
 - email (email should be set to a UNIQUE index).
- The users table is created as part of the PHP script. Users can request to create users table through Command Line directive `create_table`. If the users table already exists, it needs to be dropped and recreated.
 - Before inserting the data into the database table
Name and surname field should be set to be capitalised.
Emails need to be set to be lower case.
Email address should be validated to the legal email format. In case that an email is invalid, an error message should be reported to STDOUT and the record should not be inserted to the database.

The script should support the following command line options/directives and execute the script accordingly.

-u	Provides MySQL username required to access the database.	Value Required
-p	Provides MySQL password required to access the database.	Value Required
-h	Provides MySQL host which hosts the database with users table.	Value Required
--file	Provides the name of the csv file and prompts the script to parse the file, format and validate	Value Required

	and insert data to the users table, unless dry-run is specified. *It is required to use -u,-p and -h with this option,unless dry_run is specified.	
--create_table	Creates users table. If the table already exists, it will be dropped and recreated. * It is required to use -u,-p and -h with this option.	No Value.
--dry_run	Executes the script without inserting the data to the database. That is, the CSV file will be parsed with appropriate format changes and validations and the data will be displayed in the STDOUT. *It is required to use --file with this option.	No Value.
--help	List and describes command line	No Value.