Movie-Database-Create

Movie Database-Create Script for the TUC

This Readme contains a User Manual and a Dev Manual

User Manual

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Setup

For first time use a setup has to be performed. First go to /setup or press this link on the homepage:

DB 1 Manager Manage Accounts Manage Hosts Show Grants Purge Database Server Login

DB 1 Manager

This is a collection of php scripts for managing mySQL accounts for the students and tutors in the Database I course. The scripts currently provides the following functionalities:

Manage Accounts

Process for creating and deleting accounts, listing all existing accounts on hosts, generating password list for all accounts and resetting the password for an account.

Manage Hosts

Process for adding, deleting or listing hosts.

Show Grants

View all grants given to accounts on every/specific host(s).

Purge Database Server

Delete all accounts and their personal databases.

Setup Server

Setup the server for first time use (required):

Setup the users table and adds the default account to enable login on this site.

Setup the host table and adds the default hosts.

After pressing the setup button the default Account is created with the default name and password. Afterwards you will be redirected to login and to take the next and last step of the setup. Alternatively you can click the link below the previous or go to /setupHosts. Now you have to click the setup button again and everything is ready to go.

Note: performing this steps again will result in an error message but nothing will happen to the internal databases. To perform the setup again you have to drop the users or dbmanagerhosts table in used database.

Manage Accounts

In the manage accounts section you can create and delete accounts, list all existing accounts on hosts, generate a password list for all accounts and reset the password for an account.

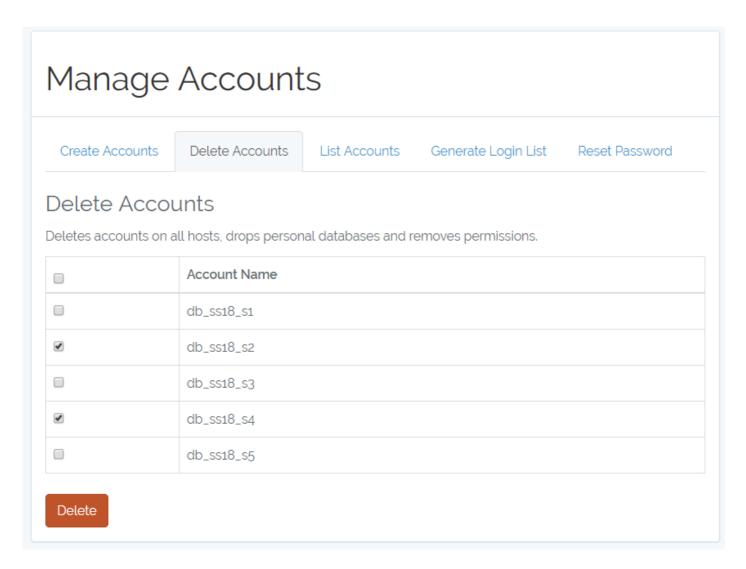
Create Accounts

Manage Accounts Create Accounts Delete Accounts List Accounts Generate Login List Reset Password Create New Accounts Creates new accounts on all hosts, creates personal databases and sets permissions. The account names have the following pattern: db_{semester}{year}_{type}{index} e.g. db_ws1718_s1 or db_ss18_s1 The year and index are optional and selected automatically when left blanc. The year is set to the current year and the index continues from the account with the highest index. Select account type: Student Summer or winter semester? SS Year (e.g. 17 for SS 2017 and 1718 for WS 2017/18) (can be left blanc to be autofilled with current year): Start index (can be left blanc to continue from the highest index): Number of accounts: Create Accounts:

To create an account you have to select if it should be an student or tutor account (currently there is no difference between those two), select if it is summer or winter semester, select the year suffix (when you do not want to use the current year), the starting index (if you dont want to continue from the highest index), and the number of accounts to create.

Creating accounts will automatically create the personal databases and set permissions for them.

Delete Accounts



To delete an account and their personal databases you can select the accounts and press delete.

List Accounts

To list accounts select the account type and press the button.

Note: In case a accounts ais not listed but still being able to delete, the account has been deleted but the personal databases not. Deleting the account or creating it again (with respective start index) will resolve the problem.

Generate Login List

When pressing the button a list with all accounts and passwords will be generated.

Reset Password

To reset a password you have to type the full account name and press the reset button.

Manage Hosts

The section to add, remove and list Hosts.

List Hosts

Press the button to list all existing Hosts

Add Hosts

Type in the name of the new host and permissions for all existing accounts will be created on the new host. All future accounts will also get permissions on the new host.

Remove Hosts

Type in the name of the host to remove and permissions for all existing accounts will be deleted that host. All future accounts will no longer get permissions on that host.

Show Grants

Select account type and host name (when you do not want to see permissions for all hosts) to show all privilegues for selected type on that host.

Purge Database Server

Deletes all accounts and private databases. Tick the checkbox when you are sure you want to purge.

Dev Manual

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Versions

Laravel: 5.5

PHP: 7.1

MariaDB: 10.1

Installation Help

Install correct PHP MariaDB and Laravel Version.

To setup Laravel (install all required packages e.g. mbstring 7.1 and php-xml 7.1):

https://www.rosehosting.com/blog/install-laravel-on-ubuntu-16-04/

Merge the new project with this project (or do "composer install" in downloaded project folder) and reset proper ownership for the files. Make sure to change following functions in app/CustomDatabaseManager.php:

```
function getDefaultPwd($accName) {
    return 123456; // replace with password generating algorithm
}

setupUsers() {
    ...
    User::create([
         'name' => 'admin', // Choose default login name
         'password' => bcrypt("dummy"), // Choose default password
    ]); // replace with standard password for user
    ...
}
```

For the .env file set APP_NAME = "DB 1 Manager", APP_URL=preferedURL, DB_DATABASE=Databasename (dont let it start with db or a bug will appear), DB_USERNAME=UserThatHasRootPermissions and DB_PASSWORD=PasswordForUser.

It is important that the user hast root permissions (ALL ON . WITH GRANT OPTION) but the user itself can not be root (atleast in Ubuntu 16.04).

Laravel Structure

The general structure can be found on https://laravel.com/docs/5.5 folders with additional files are: /app for the CustomDatabaseManager.php, Constants.php and the statusMessage.txt; /app/Http/Controllers for the Controllers; /public/js for JavaScripts; Ressources/views for the webpages.

The files itself contain commentary.

/app/CustomDatabaseManager.php:

Contains custom database functions.

/app/StatusMessage.txt:

File to which the current status message is written to.

/app/Controllers:

Controllers for the different sites.