Hello World (D7)

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Background

Import

This drupal module is a modified version of the helloword_d7 module that comes with the assignment 2. I have added the mass import feature.

Helloworld List User Records Add User Record Mass Import User Records How should my data be formatted? Choose your import method * Upload data file Enter data directly Comment

Figure 1: Mass Import User Records

1 Basic Use Case

The Mass Import User Records feature is added in the form of menu tab alongside the existing List User Records and Add User Record tabs (as shown in Figure 1).

There is a fieldset which contains a guide on how the data should be formatted at the top of the form. It is collapsed by default. Click on the title to expand it.

This mass import feature supports two types of import method: file upload and direct input.

1.1 File Upload

Data file should be of plaintext .txt format and data should be structured in the stated way properly.

- 1. Choose the Upload data file radio button, a file upload form will appear.
- 2. Choose a file to upload.
- 3. (Optional) Enter *comment* for the users if necessary.
- 4. Click the Import button.

1.2 Direct Input

Data should be formatted according to the guide. Different type of line breaks: \n , \r , and \r .

- 1. Choose the Enter data directly radio button, a text area will appear.
- 2. Paste or enter data into the text area.
- 3. (Optional) Enter *comment* for the users if necessary.
- 4. Click the Import button.

2 Miscellaneous

- I've found and fixed a small bug in the helloworld_api. Originally it does not sanitize the name and comment before output, which makes it vulnerable to script injections. Drupal's convention is to save everything that the user entered without escaping, but sanitize them before output. So I did not do any escaping when importing data. Instead, I added sanitize filters in the output function. This bug also exists in the audit_log menu of the cvwobase_d7 module, I've fixed that also. However, since it is not part of this assignment, I'll not upload that module.
- I did not make use of the existing add_user() method. Instead, I implemented a import_users() method into the helloworld_api. This is because in case of error occurring during the actual writing to the database, I can rollback the whole transaction. If I choose to call add_user() iteratively, each add_user() call will start a transaction and commit it. In case of error, those successful commits won't be rolled back. And if the user sees the error and tries to upload the same file again, there will be duplicate entries in the database. Another reason is that it is not possible to nest transactions in another transaction.
- I did not perform validation on name so that it can support different types of characters, such as Chinese and Vietnamese.
- To easily find out the changes in code, please refer to the commit log on Github.

3 Todo

- This module uses HTTP GET method to delete user entries, which is dangerous. I would try to fix this if I have time, as fixing it need to rewrite a significant portion of the original code.
- Add checks to prevent an email address from being used more than once. And add an option for the user to choose whether to skip duplicate entries or to signal an error.