Downloader for object resources and images on museum-digital

Purpose

This script serves to back up all images and resources for a given museum from museum-digital.

Setup

This script works best with an own, dedicated user account. In this section, the creation of a new user account with the necessary permissions (and only those), the creation of an authentication token and the setup for this script will be explained.

Creating an own user for backups

Create a new user account. Select "specifically determined" as the user role.

Figure 1: Creating a new user (role: *specifically determined*)

This user role sets all permissions to "disabled" by default. As this user only needs access to images / resources and should never have access to anything else, allowing viewing resources.

Username:	imgbackupmus1
Real name:	Resource Downloader for Museum #1
Email:	
New password (Empty = Keep old one):	
Passwort confirmation:	
Role:	Specifically determined
	Save

Permissions: Museums

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Collection page	
Objectgroup page	
Object: Basic data	
Object: Resources	
Object: Addendum	
Object: Administrative numbers	
Object: Classification	
Object: Object history	
Object: Values	
Object: State	
Object: Location	
Object: Loans	
Object: Rights	
Object: Remarks	
Object: Provenance research	
Object: Record history	

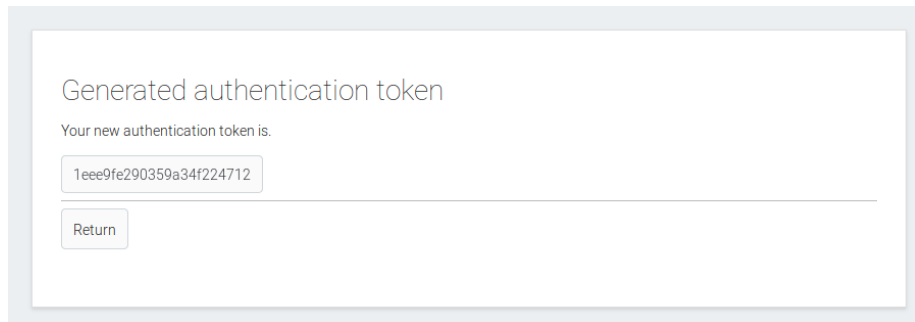All permissions: Disable   Allow editing in all cases   Remove relation to this museum

Figure 2: Set the permission for resources of objects to *viewing*.

This script logs in using authentication tokens. Generate one for the user. Click on user in the navigation to access the list of users. Then click on "Auth Token" in the rightmost column. Click confirm, and copy the generated token to some safe place.

| | Resource Downloader for Museum #1 | "imgbackupmus1" | (Specifically determined) | | Auth token |
| | Test Bot #1 | "testbot1" | (Specifically determined) | testbot@jrenslin.de | Auth token |

Register new user

Write the settings file

Copy or rename the sample for the settings file to `settings.xml`. It must remain located in the same folder as the program. Then, open the settings file and insert the auth token you generated in the previous step and the correct URL for your museum. A correct settings.xml may look as follows:

```
<xml>
  <authtoken>1eee9fe290359a34f224712debed9d83898b5436cebf3cfcc0cf4266a97b</authtoken>
  <url>https://www.museum-digital.de/sandkasten/musdb/lists.php?musid=1</url>
</xml>
```

Running the script

To run the script, double-click on it. It will fetch an index of all the available resources including the last time they were updated. This index is then compared to a local index of already downloaded files so that files will not be downloaded twice. If the file was not included in the local index, it is downloaded and marked as such in the local index. All downloaded files will be located in a subdirectory (`files`) of the directory the script is located in.

Note that the script waits 3 seconds after downloading a file, to reduce server load.