

HMD Ingest workflow tool

This tool, written in [C#](#), provides functionality for reading values from the HMD sharepoint site and automating the ingest workflow process by performing various operations on the values returned from sharepoint. The tool provides outputs in various formats, in particular by writing to text and csv files but also by writing directly to the sharepoint site.

Users

The tool is supplied as a Windows executable file which can be run with no prior installation.

To run, double-click the executable. You will be presented with a series of yes/no options.

Environment

Two environments exist within the software tool - **test** and **prod**. Using **test** sets up a test-based environment, only looks at the test sharepoint site and writes output files to your desktop. Using **prod** sets up the live production environment and uses the live HMD sharepoint.

WARNING - UNTESTED FEATURE IN **prod environment**

Image order csv generation in **prod** is untested:

- Currently I haven't been able to get the ImageOrder.csv files to write directly to the network location due to insufficient permissions. You may have sufficient permissions and be able to write to this location, however!**
- Not recommended to test this yet, but if you feel like it then testing on single shelfmarks is the most sensible way forward here.

The above does not apply to the **test** environment.

The tool then asks if you would like to search sharepoint using a shelfmark. Answer 'yes' here, followed by your shelfmark of choice (matching Sharepoint exactly!) to use this feature.

You can also select a **project** to run over. The default project is environment-dependent, but the program will tell you what it is currently set to. To change it, type **yes** (then **Enter**) and type the name of the project to analyse. At the moment this is required to match the value in SharePoint exactly.

Checks

As far as possible, individual checks are separated and the user is free to choose which checks to run over.

Three broad checks are available:

- Shelfmark source folder checks This checks that the value of **Source Folder** given for an item in SharePoint is a valid path on the BL network and writes the outcome of this check to Sharepoint.
- Run shelfmark protected character check Checks a shelfmark as entered in SharePoint for protected characters that will cause errors further down the workflow. Writes outcome of this check to SharePoint.

- Generates image order CSV and perform ALTO XML checks. Writes to SharePoint if errors are found. Image order csvs are written to a folder on the desktop currently.

For Developers

Structure of the tool

The tool is controlled with the [Program.cs](#) file, with different functionality split across the other [.cs](#) files in the repository:

- SharepointTools.cs
 - Functions to interact with the HMD sharepoint site
 - Verifies site exists, loads from the digitisation workflow sharepoint list and prints specified fields for each item (shelfmark)
 - These functions provide an input for the other functions defined in the [.cs](#) files listed below
- DirectorySearchTools.cs
 - Contains functions to list the file contents of folder paths passed as an argument, including option to search recursively
- InputOrderSpreadsheetTools.cs
 - Contains functions to generate input order CSV file for each shelfmark provided and perform XML checks.
- TextFileOutput.cs
 - Functions to output text files after running some analysis on items in sharepoint, mainly used for development purposes so far
- HMDSharepointTests
 - Project containing various test functions for the software tool.