Wycliffe Associates Media YAML Resource Downloader

Summer Hackathon 2020 8/11/2020 - 8/13/2020

Sponsor: Joe S.

Developer: David Simpson

Create a script to assemble assets for Resource Containers (Sponsor: Joe S)

NEED: Resource Containers need to be created on the fly building on the assets available in the Source Audio Server and WACS repos

DESCRIPTION: It is not practical to anticipate and store all the possible combination of source materials in resource containers that could be desired by users of Orature. Instead an app should poll the repos and source audio server to offer what is available for a given GL language and create the resource container on the fly. Then this app should

Resource Notes:

media.yaml

bundle and deliver it to the user.

Good Example of a file format - includes version info.

Open Bible Stories - media.yaml

https://git.door43.org/unfoldingWord/en_obs/src/branch/master/

Check with Christine - about the media.yaml files they create for: ULB

Resource Container Docs:

https://resource-container.readthedocs.io/en/latest/

This site is the official documentation for Door43's Resource Container specification. Resource Containers (RCs) are the building blocks of content in the Door43 eco-system.

Need:

URL for translations. JSON file.

http://bibleineverylanguage.org/wp-content/themes/bb-theme-child/data/translations.json

Usage: This file will contain a list of all of the translations available, but doesn't contain the info to derive GLs. Spreadsheet has this info now. FUTURE: In the future, this app could simply call the API which returns the list of GLs.

Need: Ask Christne

Need to know how to find the actual version info for each media block in order to replace the {latest} placeholder with the actual version number for downloading the media files.

Poes The user need to solect a subset of media

Question:

files to download? Or all media?

For instance just one book of the Bible?

or just a selection of the media files found?

No - this is not required for the initial development. Might be a extretch goal.

Once the from lation has been selected by the user, how does the app know the URL to use to get the manifest yaml and additional files it needs? Example:

https://content.bibletranslationtools.org/WA-Catalog/en_ulb/src/branch/master/manifest.yaml

https://content.bibletranslationtools.org/WA-Catalog/pt-br_ulb

Question:
What name should be used for the Zip file cre
From the media fites?

Idea from Joe: Append "-localcontent" to the original name.

Planning Tasks: 1) outline of App - window, buttons, fields Temp Dougs A) where will files get placed? Working directory location for instance Me 157t of GL; will be embedded for now.

2) When does a Drag & Prop and gets

the 152t of GL; from translations. Isow B-11-2020 FUTURE- Use the API to get the list of 2:37Pa- Planual GLS. Also use API to get top-level repository URL. As Embedded The Translations meny gets populated with this list of values. 3) User Selects the GL they want to work with. 8-12-2020 Use the language abbreviation for initial vasin 4) Idea. Let user select a local working 2:00PM directory.

2:00PM directory.

9-11-2020 Sub-folders will get created as nooded will use Zip file will get created at the typ Local level of This directory?

Temp Directory or some other path for the zip file.

X 5) Q: Let user select list of files or books or chapters to
download files from (?) Answer: Not required for v1.

6) App checks for existence of working folder
Creates 3 ub folders as needed. Timestamp for

Creates 2 up file Try-Level Enclosing folder?

Opens folder containing 2.7 file.

Planking Tasks:

- 7) ULB- How to get UFLs to repository?

 A) User selects from a prek list of language

 IETF codes
 - B) This into is used to construct the URL to the top-level of the repostory.

Implementation Tasks:

1) Cheate New icon/graphic for ggs. 9:48mm 8-12-2020 PDF why American from Annus

Zip A Zip i (on 2) (neate outline of stack.

11:28 Am 8-12-2-2- Copy of previous stack - with changes. New icon No Drag & Drop ilms Language Manu Repository Menu Media URLs fields - Debug! URL Rield - Debug? 3 Language Menu - Processing 2:18 Ph 8-12-2020 Construct a URL based upon the IETT language and the solected Repository.

Result: Gets written into URL field Consider chansing to: Get Media URLS 4) Download button Processing: Phose #1 4.03 PM 8-12-2020 Check for consents of URL field being empty. There exert. manifest. yaml Down load Download media. yam 1 - if it exists IR media yanl exists -It media your does not exect - put directory inside temp 'No madia yand file' into first Ufil full tolder. Clear 2nd URLS field

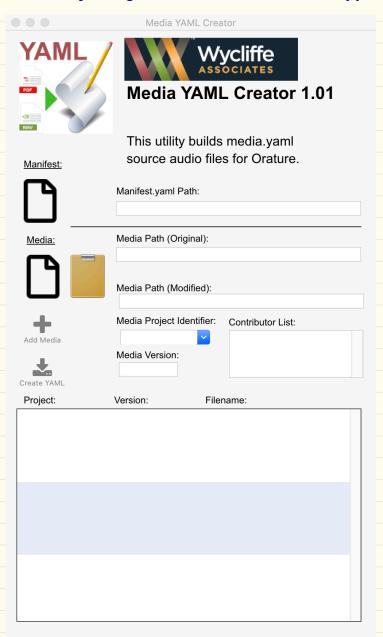
4) Down load Butten - Continued Processing - Phase # 2 2-12-2020 Find all of the media fits - original CLRLs 7:45 AM 8-13-2226 (weate new versions of CIPLS - with place holders ve mapped to use correct version # from
typ-level manifest yaml fite. s) Directory Structure: 8-54AM 8-17-2020 Last port of URL media

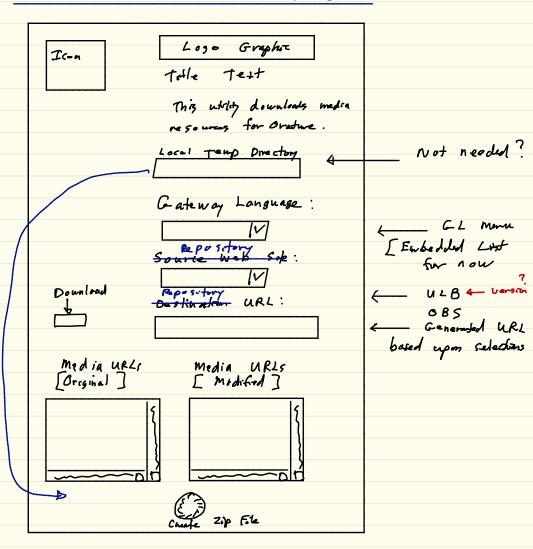
/identifier/

El. ... Adf filename. pdf 6) 2 ip File Creation Consider: Download & 2 ip Files

Create top level Time stamp Folder - in Temp on 9:53 Am
8-13-2020 [Create 2nd level Folder - using top-level URL
Creeke directory structure for each file/folder as
10:29,4m
3-13-2020 [Write each file info its folder 10:48Am 8-13-2020 Creade 2 ip file of 2nd lovel Folder using: folder name - local content 7) Add progress object - update during file processing 8-14-2020 Test with delay ande - wait for 5 ficks 8) Fix - Add media. you a manifest youl to top level Fixed folder. 8-14-2020

Previously Designed: Media YAML Creator App:





New: Media YAML Downloader App:

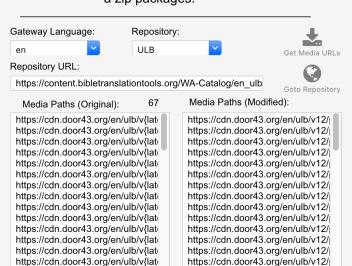


Media YAML Downloader



Media YAML Downloader 0.94

This utility downloads resources referenced within media.yaml files as a zip packages.





https://cdn.door43.org/en/ulb/v12/

https://cdn.door43.org/en/ulb/v{late

Example media.yaml (from Joe):

```
resource:
  version: '{latest}'
projects:
    identifier: 'ias'
    version: '{latest}'
    media:
       identifier: 'wav'
       version: '{latest}'
       contributor: []
       chapter url: 'media/jas/
en nt ulb jas c0{chapter}.wav'
       chapter url: -
       url: http:
```

creator: 'Door43 World Missions Community'

Example manifest.yaml (from UnfoldingWord Site):

```
description: "An open-licensed update of the ASV, intended to provide a 'form-centric' understanding of the Bible. It
increases the translator's understanding of the lexical and grammatical composition of the underlying text by adhering
closely to the word order and structure of the originals."
  format: 'text/usfm'
 identifier: 'ulb'
  issued: '2017-11-29
  language:
    direction: 'ltr'
    identifier: 'en-x-demo1'
    title: 'English'
  modified: '2017-11-29'
  publisher: 'unfoldingWord'
  relation:
    - 'en/tw'
    - 'en/tq'
    - 'en/tn'
  rights: 'CC BY-SA 4.0'
  source:
      identifier: 'asv'
      language: 'en'
      version: '1901'
  subject: 'Bible'
  title: 'Unlocked Literal Bible'
  type: 'bundle'
  version: '12'
checking:
  checking entity:
    - 'unfoldingWord'
  checking level: '3'
projects:
```

title: 'James' identifier: 'jas' SOFT: 60

path: './60-JAS.usfm' categories: ['bible-nt']

dublin core: conformsto: 'rc0.2' contributor: []

> This identifier represents the entire manifest. yaml file.

This identifier into with be nepeated for every project - There woll be many projects contained within one manifest yaml file.

FUTURE Enhancements:

The API for getting gateway languages could return the repository URL for ULB and OBS. Craig has mentioned that multiple "Primary" repos may be returned from this type of query.

Substitution of Equality 3 Placeholder:

Not enough testing has been done to determine if addational place holders are actually being used in the published nepository file.

Version key is displayed in at least 3 places in The YAML File Format.

- 1) Top-level of manifest. year | file. ie. £123 orsone number
 2) Book level of the media. year file. ie. £letest }
 3) Media URL block where URL is defined. i.e. £letest }

Since the book level version is usually ? latest? This version into is not currently being used by the ggp.

If the media. yam! LERL block uses Eladest 3 than the Versian number from the manifort yam! file is used to construct the down load URL.