# White box testing

## Test 1: Testing console dataset

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset** | **Expected console output** | **Actual console output** | **Pass/Fail** |
| Wikipedia | wiki | wiki | Pass |
| Wikimedia | wikimedia | wikimedia | Pass |
| Wikitionary | wikitionary | wikitionary | Pass |
| Wikisource | wikisource | wikisource | Pass |
| Wikinews | wikinews | wikinews | Pass |
| Wikiquote | wikiquote | wikiquote | Pass |
| Wikibooks | wikibooks | wikibooks | Pass |
| Wikiversity | wikiversity | wikiversity | Pass |
| Wikivoyage | wikivoyage | wikivoyage | Pass |

*Table 1 Testing dataset*

A screenshot of a computer

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Figure 1 Testing dataset

## Test 2: Testing languages available for that dataset

The expected console output can be viewed on <https://meta.wikimedia.org/wiki/Template:List_of_language_names_ordered_by_code>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Dataset** | **Language** | **Expected console output** | **Actual console output** | **Pass/Fail** |
| Wikipedia | Akan | akwiki | akwiki | Pass |
| Wikipedia | Arabic | arwiki | arwiki | Pass |
| Wikipedia | Portuguese | ptwiki | ptwiki | Pass |
| Wikimedia | Catalan | cawikimedia | cawikimedia | Pass |
| Wikimedia | Macedonian | mkwikimedia | mkwikimedia | Pass |
| Wikimedia | Russian | ruwikimedia | ruwikimedia | Pass |
| Wiktionary | Arabic | arwiktionary | No language displayed | Fail |
| Wiktionary | Bislama | biwiktionary | No language displayed | Fail |
| Wiktionary | Walloon | wawiktionary | No language displayed | Fail |
| Wikisource | Anglo-Saxon | angwikisource | angwikisource | Pass |
| Wikisource | Welsh | cywikisource | cywikisource | Pass |
| Wikisource | Yiddish | yiwikisource | yiwikisource | Pass |
| Wikinews | Greek | elwikinews | elwikinews | Pass |
| Wikinews | Korean | kowikinews | kowikinews | Pass |
| Wikinews | Swedish | svwikinews | svwikinews | Pass |
| Wikiquote | Arabic | arwikinews | arwikinews | Pass |
| Wikiquote | Cree | crwikinews | crwikinews | Pass |
| Wikiquote | Wolof | crwikinews | wowikinews | Pass |
| Wikibooks | Thai | thwikibooks | thwikibooks | Pass |
| Wikibooks | Slovak | skwikibooks | skwikibooks | Pass |
| Wikibooks | Urdu | urwikibooks | urwikibooks | Pass |
| Wikiversity | Chinese | zhwikiversity | zhwikiversity | Pass |
| Wikiversity | Japanese | jawikiversity | jawikiversity | Pass |
| Wikiversity | German | dewikiversity | dewikiversity | Pass |
| Wikivoyage | Hebrew | hewikivoyage | hewikivoyage | Pass |
| Wikivoyage | Vietnamese | viwikivoyage | viwikivoyage | Pass |
| Wikivoyage | Persian | fawikivoyage | fawikivoyage | Pass |

*Table 2a: Languages*

Bug #1: No languages are displayed when selecting Wiktionary

A screenshot of a computer

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Figure 2 Bug #1 found

The bug was formed due to a typo in the word *Wiktionary.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Dataset** | **Language** | **Expected console output** | **Actual console output** | **Pass/Fail** |
| Wikipedia | Akan | akwiki | akwiki | Pass |
| Wikipedia | Arabic | arwiki | arwiki | Pass |
| Wikipedia | Portuguese | ptwiki | ptwiki | Pass |
| Wikimedia | Catalan | cawikimedia | cawikimedia | Pass |
| Wikimedia | Macedonian | mkwikimedia | mkwikimedia | Pass |
| Wikimedia | Russian | ruwikimedia | ruwikimedia | Pass |
| Wiktionary | Arabic | arwiktionary | arwiktionary | Pass |
| Wiktionary | Bislama | biwiktionary | biwiktionary | Pass |
| Wiktionary | Walloon | wawiktionary | wawiktionary | Fail |
| Wikisource | Anglo-Saxon | angwikisource | angwikisource | Pass |
| Wikisource | Welsh | cywikisource | cywikisource | Pass |
| Wikisource | Yiddish | yiwikisource | yiwikisource | Pass |
| Wikinews | Greek | elwikinews | elwikinews | Pass |
| Wikinews | Korean | kowikinews | kowikinews | Pass |
| Wikinews | Swedish | svwikinews | svwikinews | Pass |
| Wikiquote | Arabic | arwikinews | arwikinews | Pass |
| Wikiquote | Cree | crwikinews | crwikinews | Pass |
| Wikiquote | Wolof | crwikinews | wowikinews | Pass |
| Wikibooks | Thai | thwikibooks | thwikibooks | Pass |
| Wikibooks | Slovak | skwikibooks | skwikibooks | Pass |
| Wikibooks | Urdu | urwikibooks | urwikibooks | Pass |
| Wikiversity | Chinese | zhwikiversity | zhwikiversity | Pass |
| Wikiversity | Japanese | jawikiversity | jawikiversity | Pass |
| Wikiversity | German | dewikiversity | dewikiversity | Pass |
| Wikivoyage | Hebrew | hewikivoyage | hewikivoyage | Pass |
| Wikivoyage | Vietnamese | viwikivoyage | viwikivoyage | Pass |
| Wikivoyage | Persian | fawikivoyage | fawikivoyage | Pass |

Table 2b Bug solved

## Test 3: Testing dates available for that dataset and language

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Dataset** | **Language** | **Dates** | **Expected console output** | **Actual console output** | **Pass/Fail** |
| Wikipedia | English | 20181001 | 20181001 | 20181001 | Pass |
| Wikimedia | Portuguese | 20181120 | 20181120 | 20181120 | Pass |
| Wikisource | Bengali | 20181001 | 20181001 | 20181001 | Pass |
| Wikinews | Greek | 20181201 | 20181201 | 20181201 | Pass |
| Wikiquote | Catalan | 20180901 | 20180901 | 20180901 | Pass |
| Wikibooks | Aymara | 20180920 | 20180920 | 20180920 | Pass |
| Wikiversity | Japanese | 20180920 | 20180920 | 20180920 | Pass |
| Wikivoyage | Finnish | 20181120 | 20181120 | 20181120 | Pass |

*Table 3: Dates*

A screenshot of a computer

Description automatically generated

*Figure 3 Screenshots of console*

# Boundary value testing

## Choosing extreme language

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source** | **Language** | **Expected console output** | **Actual console output** | **Pass/Fail** |
| Wikipedia | Afar | aawiki | No output | Fail |
| Wikipedia | Zulu | zuwiki | zuwiki | Pass |
| Wikimedia | Amharic | amwikimedia | No output | Fail |
| Wikimedia | Turkish | trwikimedia | trwikimedia | Pass |
| Wiktionary | Afar | aawiktionary | No output | Fail |
| Wiktionary | Zulu | zuwiktionary | zuwiktionary | Pass |
| Wikisource | Anglo-Saxon/Old English | angwikisource | No output | Fail |
| Wikisource | Minnan | zh\_min\_nanwikisource | zh\_min\_nanwikisource | Pass |
| Wikinews | Arabic | arwikinews | No output | Fail |
| Wikinews | Chinese | zhwikinews | zhwikinews | Pass |
| Wikiquote | Afrikaans | afwikiquote | No output | Fail |
| Wikiquote | Minnan | zh\_min\_nanwikisource | zh\_min\_nanwikisource | Pass |
| Wikibooks | Afar | aawikibooks | No output | Fail |
| Wikibooks | Zulu | zuwikibooks | zuwikibooks | Pass |
| Wikiversity | Arabic | arwikiversity | No output | Fail |
| Wikiversity | Chinese | zhwikiversity | zhwikiversity | Pass |
| Wikivoyage | Bengali | bnwikivoyage | No output | Fail |
| Wikivoyage | Chinese | zhwikivoyage | zhwikivoyage | Pass |

*Table 4: Choosing extreme values for each source*

Bug #2 does not display any language if the language is the first in the dropdown menu

Bug #2 fixed

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source** | **Language** | **Expected console output** | **Actual console output** | **Pass/Fail** |
| Wikipedia | Afar | aawiki | aawiki | Pass |
| Wikipedia | Zulu | zuwiki | zuwiki | Pass |
| Wikimedia | Amharic | amwikimedia | amwikimedia | Pass |
| Wikimedia | Turkish | trwikimedia | trwikimedia | Pass |
| Wiktionary | Afar | aawiktionary | aawiktionary | Pass |
| Wiktionary | Zulu | zuwiktionary | zuwiktionary | Pass |
| Wikisource | Anglo-Saxon/Old English | angwikisource | angwikisource | Pass |
| Wikisource | Minnan | zh\_min\_nanwikisource | zh\_min\_nanwikisource | Pass |
| Wikinews | Arabic | arwikinews | arwikinews | Pass |
| Wikinews | Chinese | zhwikinews | zhwikinews | Pass |
| Wikiquote | Afrikaans | afwikiquote | Afwikiquote | Pass |
| Wikiquote | Minnan | zh\_min\_nanwikisource | zh\_min\_nanwikisource | Pass |
| Wikibooks | Afar | aawikibooks | aawikibooks | Pass |
| Wikibooks | Zulu | zuwikibooks | zuwikibooks | Pass |
| Wikiversity | Arabic | arwikiversity | arwikiversity | Pass |
| Wikiversity | Chinese | zhwikiversity | zhwikiversity | Pass |
| Wikivoyage | Bengali | bnwikivoyage | bnwikivoyage | Pass |
| Wikivoyage | Chinese | zhwikivoyage | zhwikivoyage | Pass |

*Table 5 Bug #2 fixed*

## Choosing extreme dates

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source** | **Language** | **Date** | **Expected console output** | **Actual console output** | **Pass/Fail** |
| Wikipedia | Afar | 20180720 | 20180720 | 20180720 | Pass |
| Wikipedia | Afar | latest | latest | latest | Pass |
| Wikimedia | Amharic | 20180720 | 20180720 | 20180720 | Pass |
| Wikimedia | Amharic | latest | latest | Latest | Pass |
| Wiktionary | Afar | 20180720 | 20180720 | 20180720 | Pass |
| Wiktionary | Afar | Latest | latest | Latest | Pass |
| Wikisource | Anglo-Saxon/Old English | 20180720 | 20180720 | 20180720 | Pass |
| Wikisource | Anglo-Saxon/Old English | Latest | latest | latest | Pass |
| Wikinews | Arabic | 20180720 | 20180720 | 20180720 | Pass |
| Wikinews | Arabic | Latest | latest | latest | Pass |
| Wikiquote | Afrikaans | 20180720 | 20180720 | 20180720 | Pass |
| Wikiquote | Afrikaans | Latest | latest | Latest | Pass |
| Wikibooks | Afar | 20180720 | 20180720 | 20180720 | Pass |
| Wikibooks | Afar | latest | latest | latest | Pass |
| Wikiversity | Arabic | 20180720 | 20180720 | 20180720 | Pass |
| Wikiversity | Arabic | Latest | latest | Latest | Pass |
| Wikivoyage | Bengali | 20180720 | 20180720 | 20180720 | Pass |
| Wikivoyage | Bengali | Latest | latest | latest | Pass |

*Table 6 Testing extreme dates*