March 2, 2018

1. Software initialization
   1. Openable from a desktop icon
   2. Upon opening, start new, clean session OR start session by importing an existing file.
   3. Specify session to be USGS or non-USGS.

Constraints: none.

Acceptance tests:

* 1. Open from desktop icon.
  2. Start screen prompt that prompts user to begin new session, open existing session.
     1. If new session, offer option to import existing (possibly older) file.
     2. If new session, offer option to designate metadata to be USGS or non-USGS

1. Progress tracking
   1. Table of contents.
      1. Red (dot, X, or text) = unpopulated tag
      2. Green (dot, check mark, or text)= populated tag
      3. Yellow = imported but not verified tag
      4. Highlight text not QC’d
      5. Unhighlight text and make black when QC’d

Constraints: colors cannot be other than red, green, yellow

Acceptance tests:

1. Unpopulated tag marked by red.
2. Populated tag marked by green.
3. Imported but not verified tag marked by yellow.
4. Non-QC’d tag highlighted.
5. QC’d tag black and unhighlighted
6. Display/Design
   1. Table of contents navigable – jump to sections
   2. Progress displayed.
   3. Insert information into editable text fields
   4. Required inputs not duplicated
   5. Information consistent between data types entered only once for all metadata
   6. Changes to a common tag should be reflected in all output xml files
   7. Present metadata for review in an uncluttered, unambiguous, readable format

Constraints: text entered in text fields. Preview option for readability. Table of contents for navigating and progress tracking. No two metadata inputs should be the same.

Acceptance tests:

1. GUI accepts text inputs from text fields.
2. Preview option is formatted without clutter, clear and readable.
3. Table of contents navigable.
4. Progress indicated in table of contents.
5. Verification
   1. Entered information correctly compiled into FGDC standard tags.
   2. Verify that all tags have information entered.
   3. Indicate tags with no input.
   4. Exported XML should pass the USGS FGDC Metadata Parser.
   5. Exported XML files that are verified to be correct should also be correct in XMLInput.jar

Constraints: FGDC and USGS compliant XML files. XMLInput.jar should find no errors.

Acceptance tests:

1. Exported XML files pass the USGS FGDC Metadata Parser
2. Exported XML files with no empty tags contain no errors when loaded into XMLInput.jar
3. Before export, progress indicator shows if tags are missing information.
4. Tags with missing information are indicated by the color red (dot, X or text).
5. Export
   1. With one click, all desired data products should get a correctly formatted metadata XML file exported.
   2. Prompt user to save session or export metadata XML files on exit.
   3. Before export, if any tags are empty, warn user.

Constraints: do not export without checking that all tags are filled first.

Acceptance tests:

1. Before exporting, notify user of any tags not populated (or indicate all tags populated).
2. When metadata is exported for multiple data types, each data type is represented by a correctly formatted metadata XML file.
3. Before exit, prompt user to save session or export metadata.
4. File management
   1. Options to save and exit required.
   2. Option to save session as xml.
   3. Ability to end session that is incomplete,
   4. Ability to open incomplete session and resume.
   5. Ability to export Incomplete session to XML so that it can be openable in XMLInput.jar

Constraints: completing a session (having all tags populated) is not mandatory before exiting program

Acceptance tests:

1. Incomplete sessions saveable or XML with empty tags exportable.
   1. Populated content stored within appropriate tags.
   2. All other tags will be empty
2. Partially populated xml files openable as a fresh session with all pre-existing tag contents retained.
3. Save button saves session.
   1. Save as xml
   2. Save as proprietary
4. Exit button exits program.