

Testing Document

Software Development Group 14

For the testing of our Excel Data Extractor we use JUNIT tests and User testing. User testing consisted of bringing our application to Kimberly after we had the GUI finished and having her run it. Examine the output and giving feedback. It also consisted of running it on different computers including those that have low resolutions in the labs. We asked for feedback from her and made improvements based on areas she wanted changed or appeared to struggle with. After observing our user tests we also got ideas of where we could add useful functionality that had not been suggested by our client.

Within our maven build we have all our JUNIT tests run. If any tests fail the build will fail. Below is a list of our JUNIT tests:

TestDataGroupType

- Tests the toString methods for Lookzone and Slide Metric

TestDataType

- Tests the toString methods for Statistic, Subject, and Stimuli

TestDataTypeModelMangaer

- Tests to make sure that the model manager makes all 6 data models

TestFourDimArray

- Tests getters and setters in different configurations and with overlap

- Tests length of stored data

TestOutputConfiguration

- Tests for tab, column and row setters

- Tests getting configurations after setting them

TestSheetConfiguration

- Tests setters and getters for the sheet configuration fields

TestGuiModel

- Tests updating group datatype

- Tests swapping and getting axis

- Tests updating sheet type from swap

- Tests adding good and bad files

- Tests adding file to file list model

- Tests removing selected files from list model

- Tests adding new items to the model

- Tests clearing models

- Tests selecting all a model

- Tests deselecting all in a model

- Tests setting items as true and false

- Tests getting the current active model
- Tests getting selected data
- TestCheckboxListItem
 - Tests setting items selected status
 - Tests creating new items
- TestCheckboxListModel
 - Tests adding elements
 - Tests contains element method
- TestWorkbookReader
 - Tests extracting media names from videos
 - Tests extracting media names from images
 - Tests getting slide metric data
 - Tests getting data breaks
 - Tests getting number of statistics
 - Tests getting stimulus names
 - Tests reading file
 - Tests adding lookzone data
- TestWorkbookWriter
 - Tests creating rows, cells, and sheets
 - Tests creating a new workbook
 - Tests getting values from data structure

This is what the output should look like when all the tests are complete:

Results :

Tests run: 42, Failures: 0, Errors: 0, Skipped: 0