BestXYZ Processor

Requirements, Design, Implementation, Testing (RDIT)

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| User Story | Text |
| OUTPUTFILE | The user was able to specify an Output File in the main window by direct entry |
| OUTPUTSELECT | The user was able to select an existing Output File in the main window by browsing |

1. Requirements
   1. The user is able to type an output file path into a text field on a GUI interface
   2. The user is able to browse for an output file through a standard save file dialog
   3. The user is able to type a log file path into a text field on a GUI interface
   4. The user is able to browse for a log file through a standard save file dialog
2. Design
   1. Use a framework to create a main GUI dialog
   2. Add text entry fields to allow the user to type in output and log file paths
      1. The text entry fields will have placeholder text until the fields are otherwise populated
   3. Add buttons to the main GUI dialog to allow the user to browse for an output and log file
      1. Browsing for a file will populate the corresponding text entry field
3. Implementation
   1. Create a QT Window
   2. Add two QTextEdits that have example file paths as placeholder text
      1. Filling in the text entry fields removes the placeholder text
   3. Add two QButtons to the GUI
      1. Upon clicking a QButton prompt the user with a save QFileDialog
      2. Browsing for an output or log file populates its corresponding QTextEdit field and highlights the border of the QTextEdit green
4. Testing  
   Test Setup: A computer with the BestXYZ Processor application loaded and containing at least one reference receiver dataset.
   1. Open the BestXYZProcessor application
   2. Verify that Output and log File text entry fields are present on the GUI
   3. Verify that the user can type into the text entry fields
   4. Verify that buttons with a folder icon exists to the right of the log and output file text entry fields
   5. Use the folder button to pop up the standard save file dialog
   6. Cancel the dialog, verifying that no file path is entered in the text entry
   7. Reopen the standard save file dialog
   8. Browse for a file and verify that the file path is automatically entered into the text field to the left of it.
   9. Verify that the border of the text entry field is changed to green