Harper College
Automated Course Guide Creation System
PC User Guide
VERSION 1

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This Automated Course Guide Creation System will run on both PC and MAC. This documentation is specifically for the PC version.

This automated system is created to be compatible with only the 2018 version of InDesign.

Currently the location of the files are hard coded. So they must be placed in the following location: **"C:\Users\lehrke\Desktop\Try\New folder\Course Guide Scripts\"**

To start the system, the user must run the main file named "**runCreateCourseGuideSystem**", then the system will guide the user through 3 processing steps by presenting a series of prompts that she -or- he must respond to. At the end of prompting, the system will have generated an InDesign document (".indd") that can then be edited further as needed.

The system master folders has 2 separate sub-folders(***See Figure 1a):*** a program folder and a development folder. These sub-folders contain all the necessary files to run the system. The folders are named "Course Guide Scripts" and "Course Guide Devel 2018".

The "Course Guide Scripts" folder contains the following 4 files. (***See Figure 1b)***
    1. runCreateCourseGuideSystem ***(See Figure 3)***
        ● Starts InDesign
        ● Starts STEP1, STEP2 & STEP3 scripts in sequence
    2. STEP1_ProcessRawDestinyXML_CreateSimplifiedXML.jsx
        ● Converts the Original Destiny Export into an easier to manage XML
    3. STEP2_ProcessSimplifiedXML_CreatGroupedAndSortedXML.jsx
        ● Creates a new XML that is ready for importing into InDesign
        ● Sorts the Courses Filters the Courses if necessary
    4. STEP3_PostImportedToTemplateProcessing_updateTheTemplate.jsx
        ● Imports the Final XML into InDesign
        ● Adds headings and sections titles.

The "Course Guide Devel 2018" contains the following files. ***(See Figure 2a)***
    HC_course_catalog_TEMPLATE.indd
        ● Custom Template that defines how the courses should layout

courseNumbers.txt *(See Figure 2b)*
- Contains a list of course numbers that is used to filter which courses to include in the catalog.
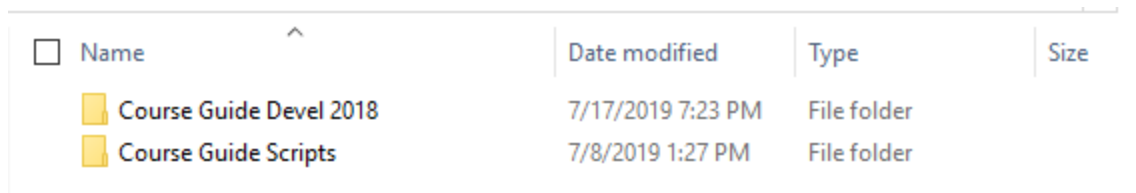
destinyExportedFile_custrom_named_by_user.xml
- This a raw XML dump of all course information contained in the Destiny System.
  - *In this installation the name is "Fall_2019_test_template_export_2019_07_02_10_51_04_AM.XML"*

After the system has run there will be additional files that are created which will be placed in the "Course Guide Devel 2018" folder. Included in these additional files will the a new InDesign files containing the formated courses information. *(**See Figure 18**)*

Additional System Generated files:
- CourseCatalog_DATE00_0_000TIME00_00_00.indd - *FINAL InDesign Catalog*
- allProgramArea.txt - *Temporary file created by system*
- processed_XML_Flattened_and_Simplified.xml - *Temporary file created by system*
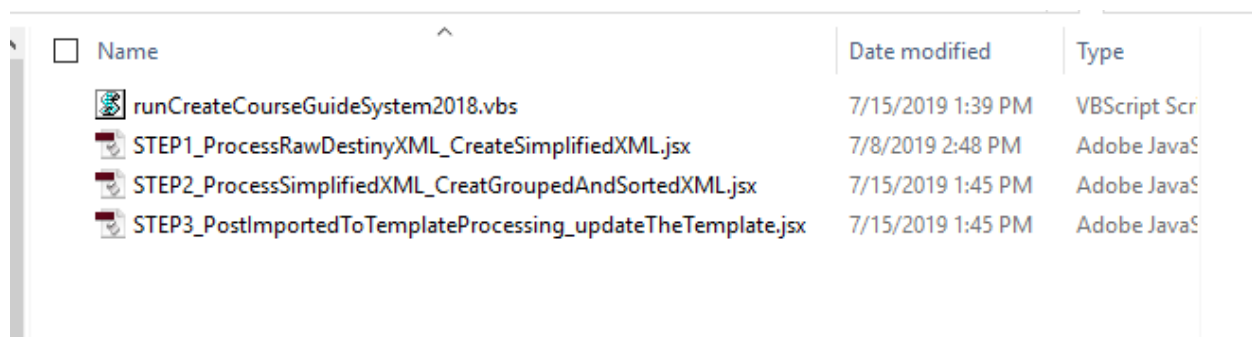- processed_XML_Grouped_and_sorted.xml - *Temporary file created by system*

Name	Date modified	Type	Size
Course Guide Devel 2018	7/17/2019 7:23 PM	File folder	
Course Guide Scripts	7/8/2019 1:27 PM	File folder	

Figure 1a:

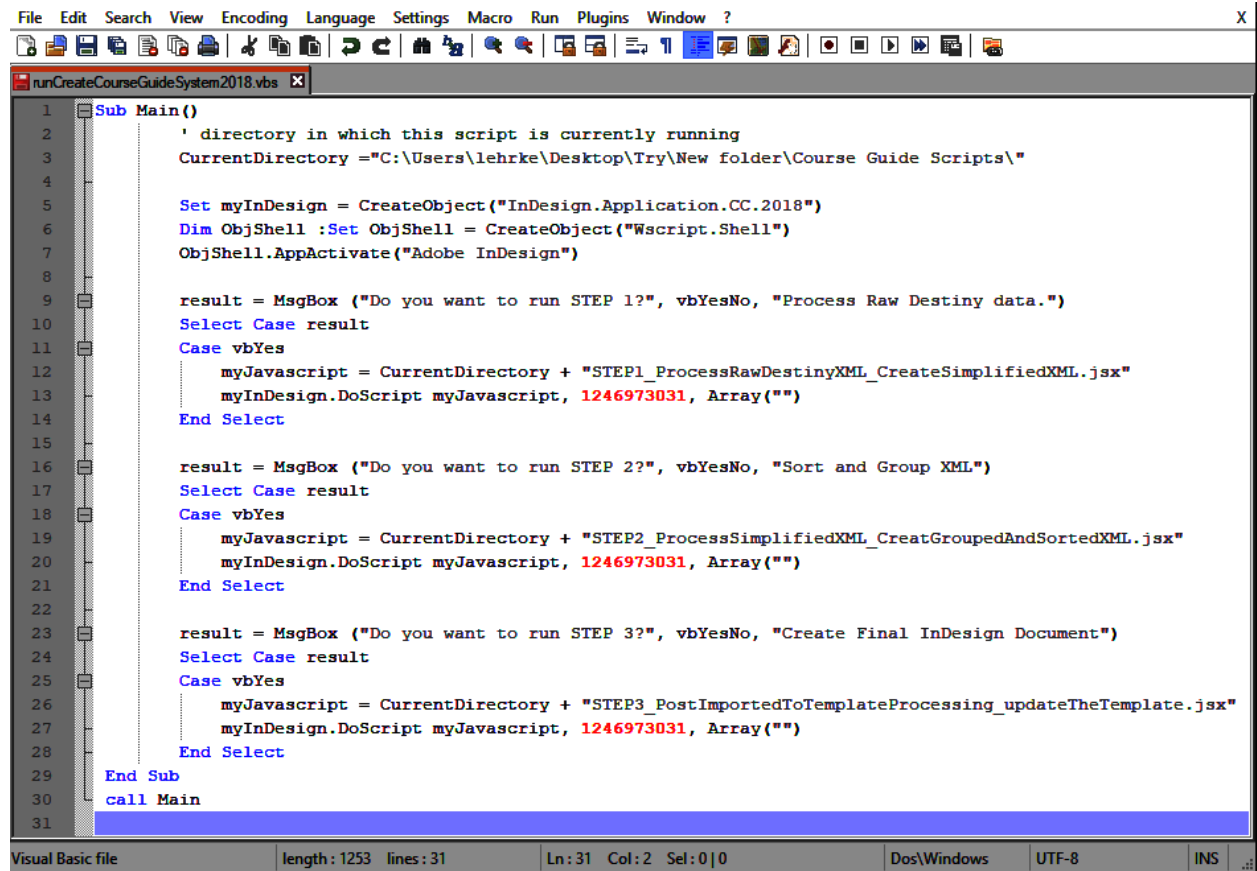| Name	Date modified	Type
runCreateCourseGuideSystem2018.vbs	7/15/2019 1:39 PM	VBScript Scr
STEP1_ProcessRawDestinyXML_CreateSimplifiedXML.jsx	7/8/2019 2:48 PM	Adobe JavaS
STEP2_ProcessSimplifiedXML_CreatGroupedAndSortedXML.jsx	7/15/2019 1:45 PM	Adobe JavaS
STEP3_PostImportedToTemplateProcessing_updateTheTemplate.jsx	7/15/2019 1:45 PM	Adobe JavaS

Figure 1b:

Figure 2a:

Figure 2b:

```
File  Edit  Search  View  Encoding  Language  Settings  Macro  Run  Plugins  Window  ?                                    X

runCreateCourseGuideSystem2018.vbs  X
 1   Sub Main()
 2         ' directory in which this script is currently running
 3         CurrentDirectory ="C:\Users\lehrke\Desktop\Try\New folder\Course Guide Scripts\"
 4
 5         Set myInDesign = CreateObject("InDesign.Application.CC.2018")
 6         Dim ObjShell :Set ObjShell = CreateObject("Wscript.Shell")
 7         ObjShell.AppActivate("Adobe InDesign")
 8
 9         result = MsgBox ("Do you want to run STEP 1?", vbYesNo, "Process Raw Destiny data.")
10         Select Case result
11         Case vbYes
12             myJavascript = CurrentDirectory + "STEP1_ProcessRawDestinyXML_CreateSimplifiedXML.jsx"
13             myInDesign.DoScript myJavascript, 1246973031, Array("")
14         End Select
15
16         result = MsgBox ("Do you want to run STEP 2?", vbYesNo, "Sort and Group XML")
17         Select Case result
18         Case vbYes
19             myJavascript = CurrentDirectory + "STEP2_ProcessSimplifiedXML_CreatGroupedAndSortedXML.jsx"
20             myInDesign.DoScript myJavascript, 1246973031, Array("")
21         End Select
22
23         result = MsgBox ("Do you want to run STEP 3?", vbYesNo, "Create Final InDesign Document")
24         Select Case result
25         Case vbYes
26             myJavascript = CurrentDirectory + "STEP3_PostImportedToTemplateProcessing_updateTheTemplate.jsx"
27             myInDesign.DoScript myJavascript, 1246973031, Array("")
28         End Select
29   End Sub
30   call Main
31

Visual Basic file          length : 1253   lines : 31        Ln : 31   Col : 2   Sel : 0 | 0        Dos\Windows    UTF-8        INS
```

Figure 3:

STEP 1

It is best practices to manually start Adobe InDesign before starting the "runCreateCourseGuideSystem" file. However the programs will automatically start Adobe InDesign if it is not already open.

To start the system: Go the "Course Guide Scripts" folder and "double click" on the file "runCreateCourseGuideSystem" to run it.

Then a prompt will pop-up asking the user to verify that they want to start the Step-1 process. *(See Figure 4).* This process will read the very complex Destiny XML file, extract only the necessary data and create a simplified version of it which will be used further down the workflow process pipeline.
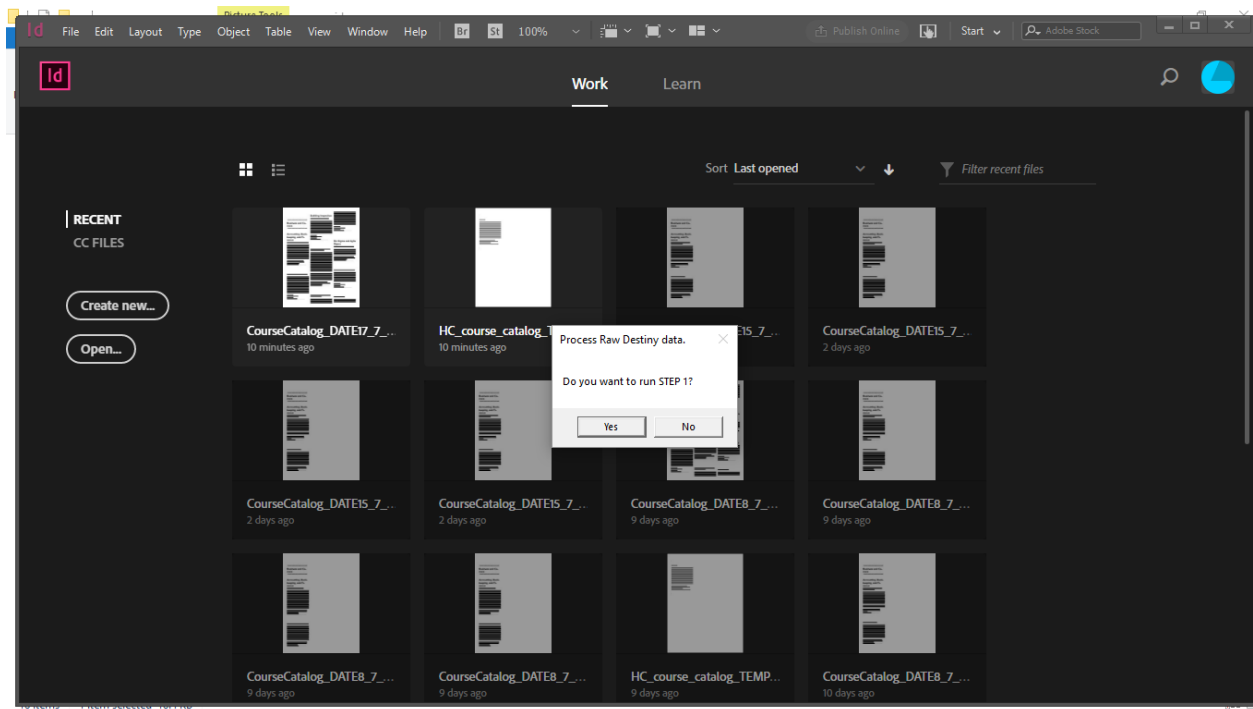
Figure 4:

If you click "YES" to start Step-1 then it will immediately ask you to pick the Destiny Full export XML that the user previously placed in the data folder. *(See Figure 5)*

Note: this Destiny Full export XML should **NOT** be processed by any XSL file. The exported Destiny file should be in it's RAW form.
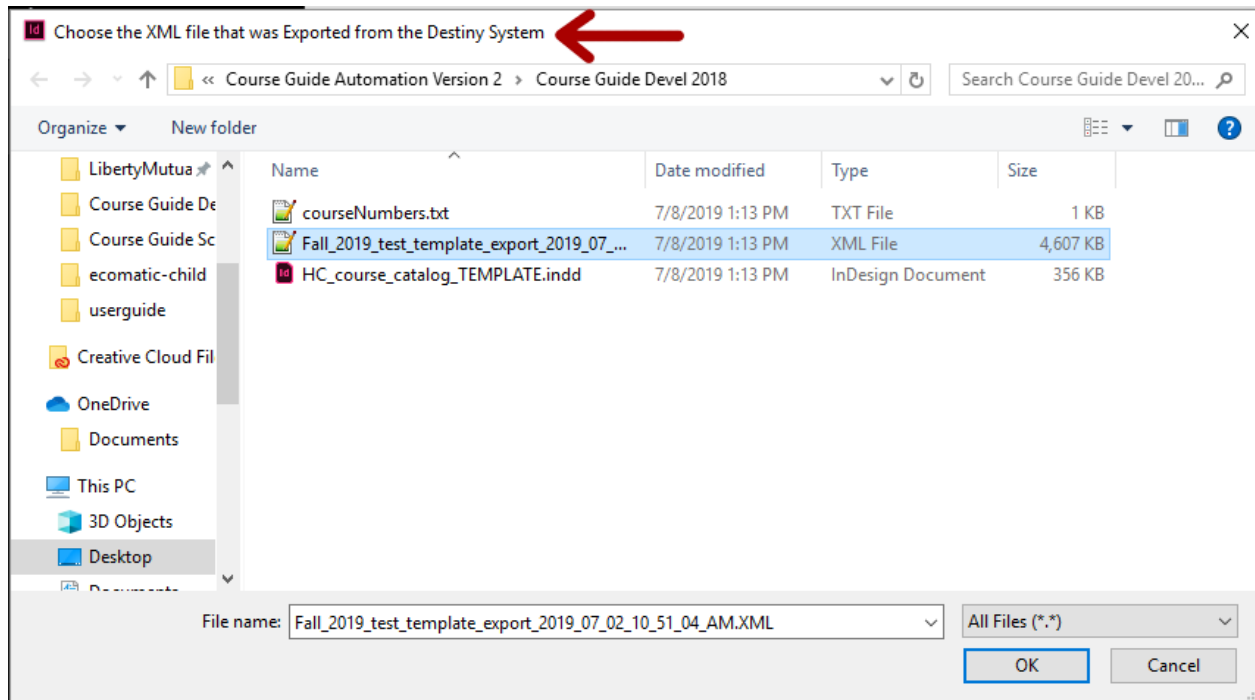
Figure 5:

Once the file has been picked the Destiny Export XML is imported into InDesign. *(See Figure 6)*
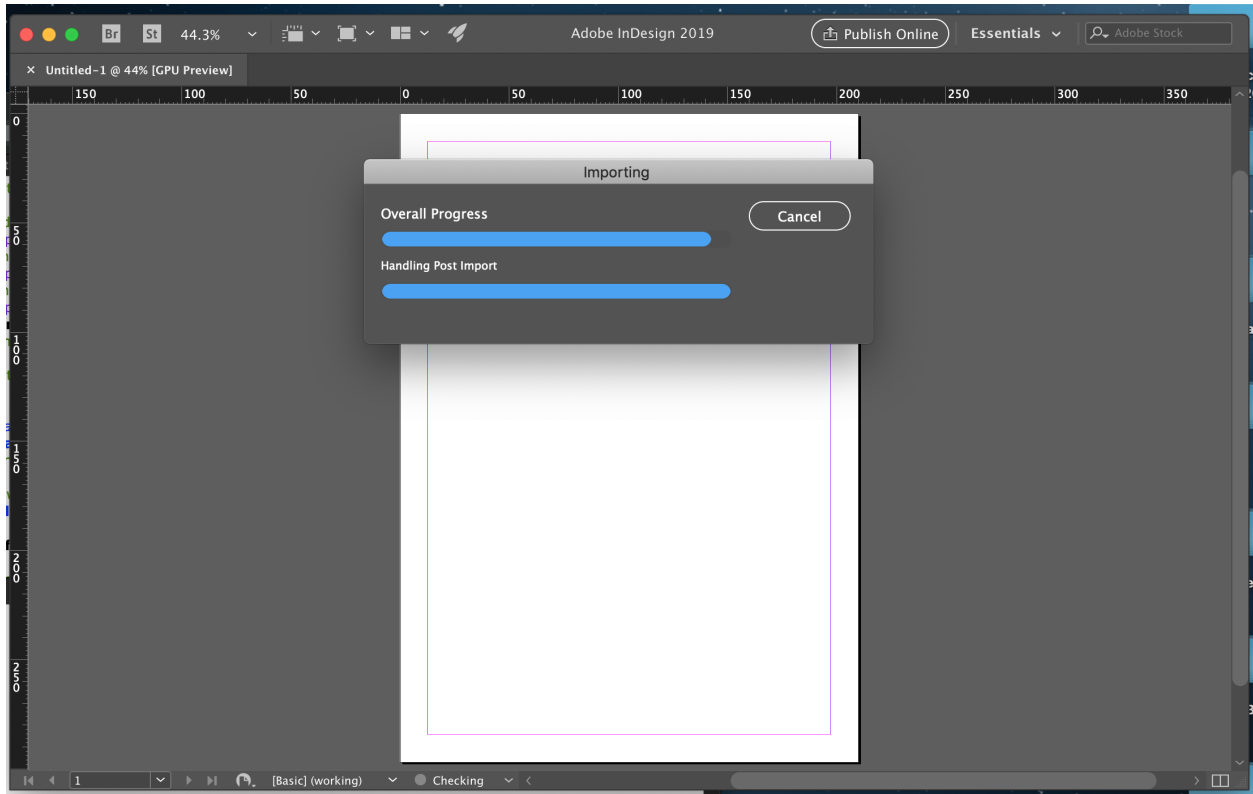
Figure 6:

After the Destiny Data has been fully imported the XML is analyzed and processed. Once complete you will see a process completed screen. *(See Figure 7)*

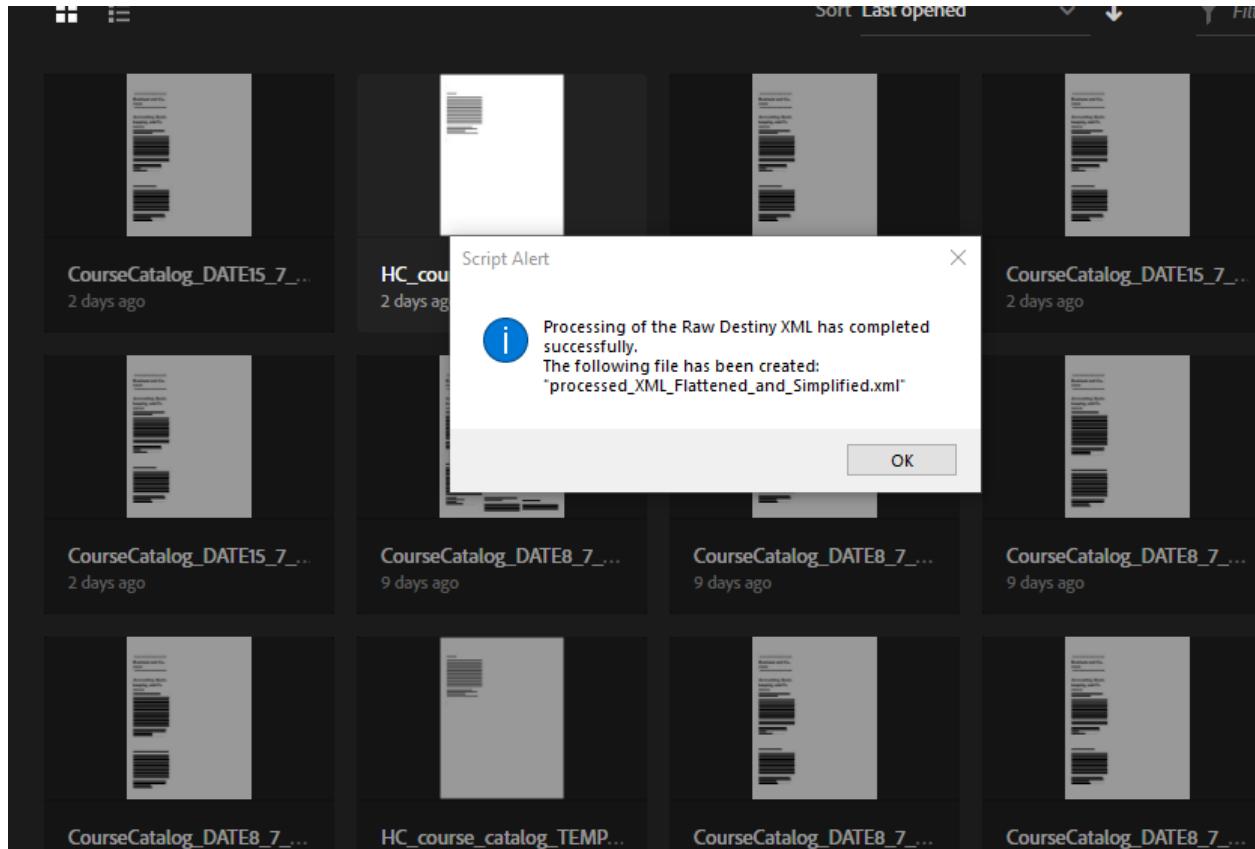*Figure 7:*

You will now see that the system created a new XML file that was placed in the "Course Guide Devel 2018" folder. The new file name is "**processed_XML_Flattened_and_Simplified.xml**" The system also created an additional file named "**allProgramArea.txt**" which is used by the system for processing purposes.

This completes Step-1.

Figure 8:

STEP 2

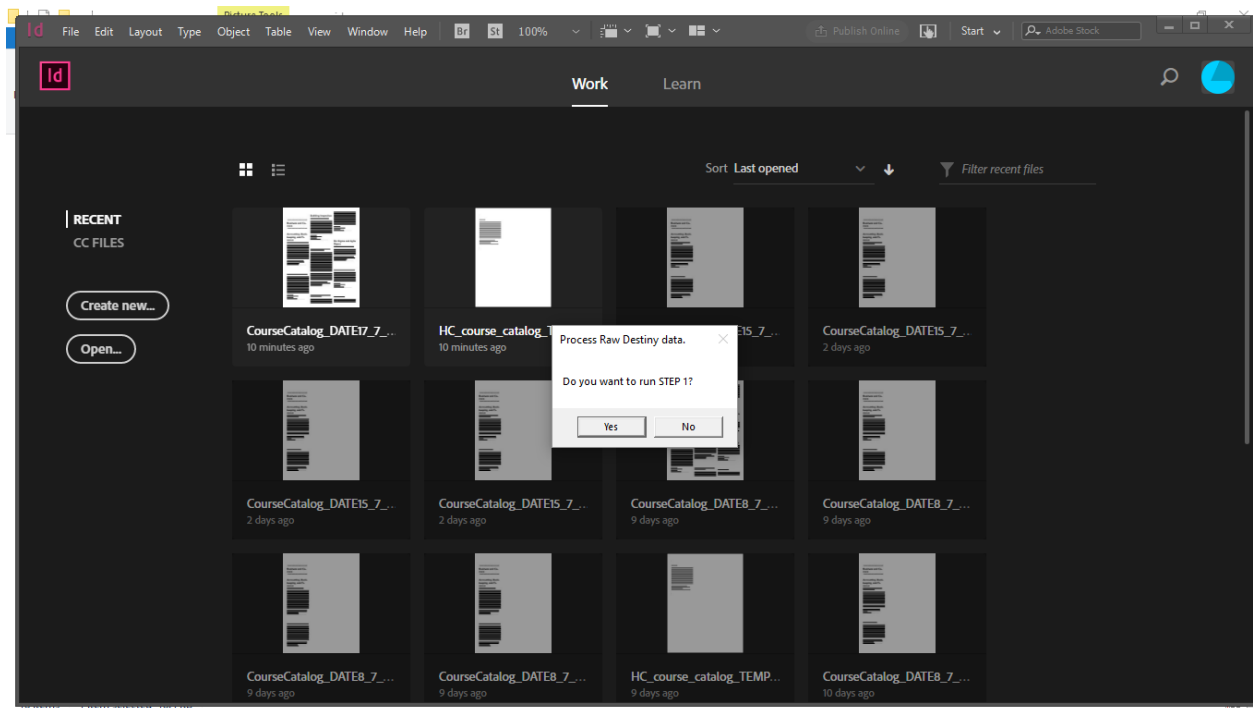After step 1 has completed a prompt will be presented to the user asking them if they would like to start step 2. *(See Figure 9)*

Figure 9:

After the user start step 2 by clicking on "YES", then she -or- he will be presented with a prompt asking if only process(Filter) a subset of all possible courses which were included in the original Destiny XML file should included in further processing.
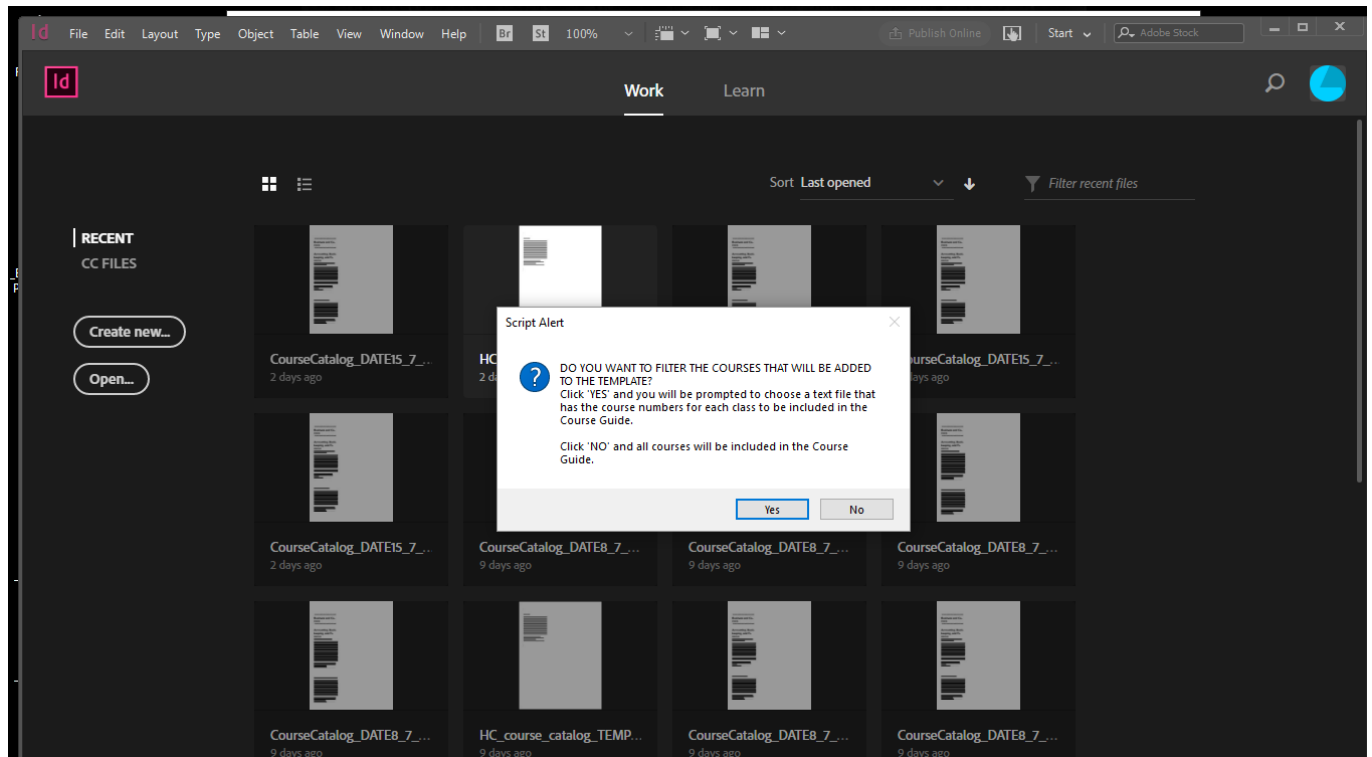
If the user chooses "NO" then all courses will be included and processed.

Figure 10:

If the user chooses "YES" to **Filter** the courses of the XML data then the user will be asked to pick the file that has the list of courses to process. (**See Figure 11 and Figure 2b**)
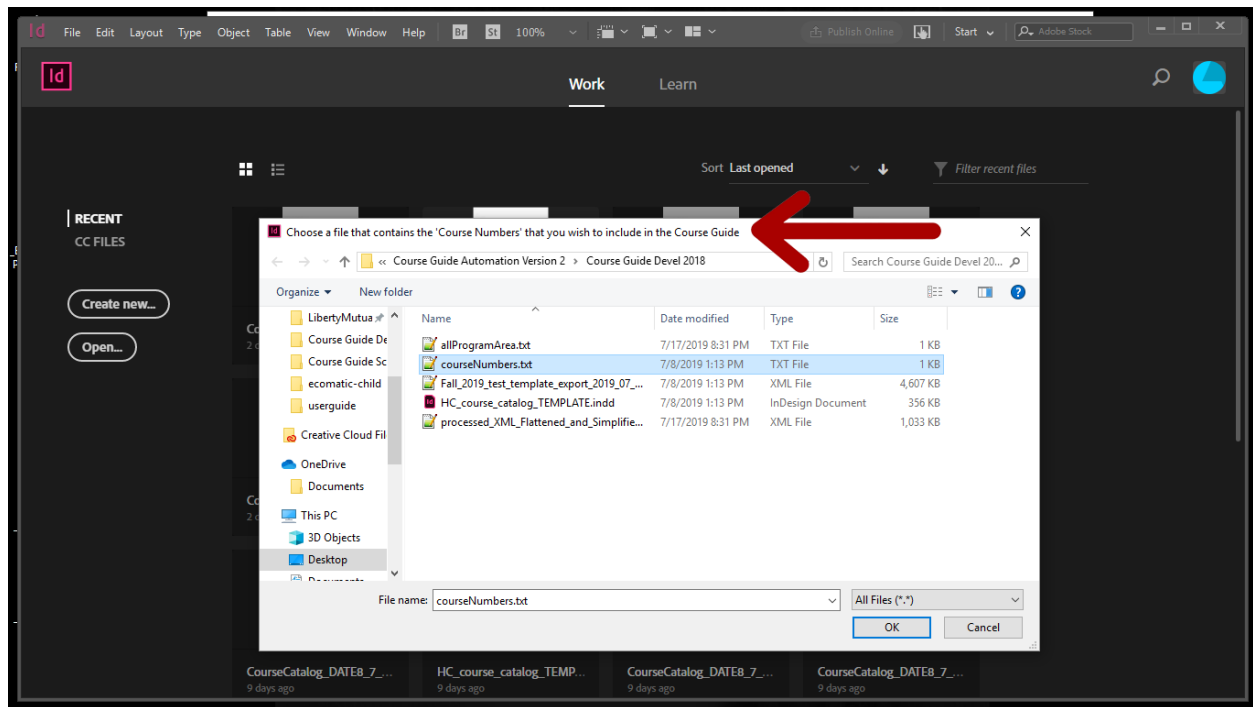

Figure 11:

After the Step 2 is done then the user is presented with a file created and processing completion messages. (**See Figure 12**)
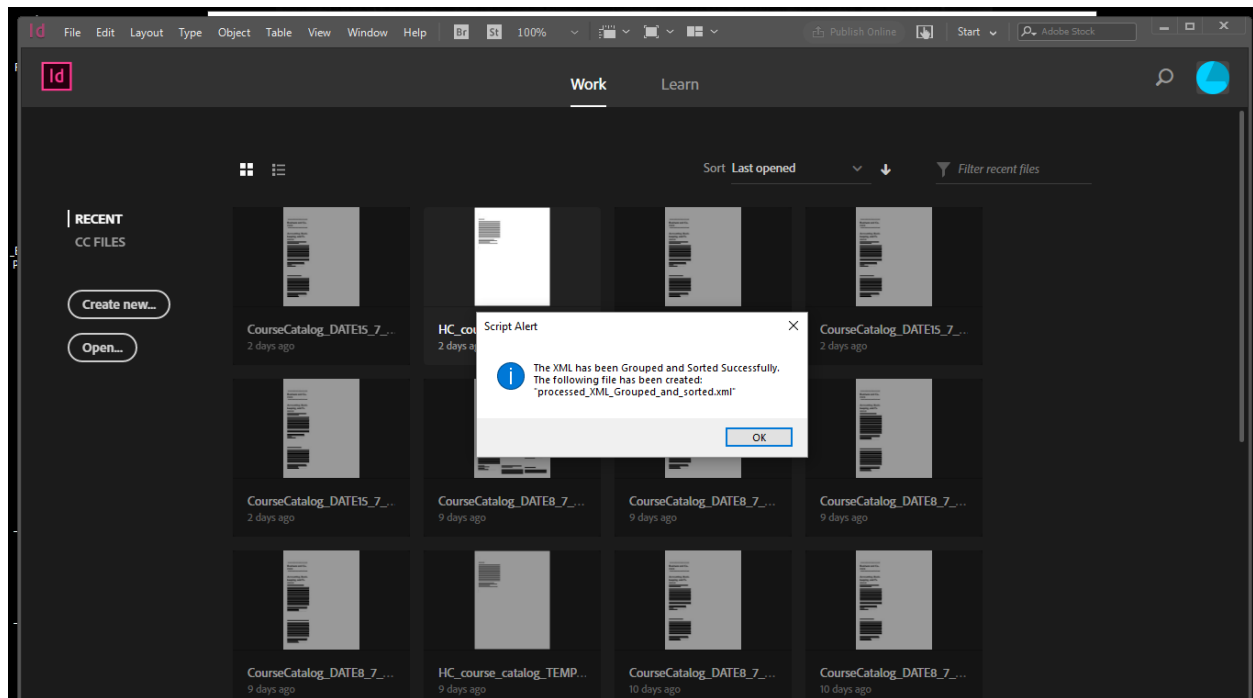

Figure 12:

After Step 2 is completed, you will now see that the system created a new XML file that was placed in the development folder the filename is "processed_XML_Grouped_and_sorted.xml" (**See Figure 13**)

Figure 13:

STEP 3

After step 2 has completed a prompt will be presented to the user asking them if they would like to start step 3. *(See Figure 14)*
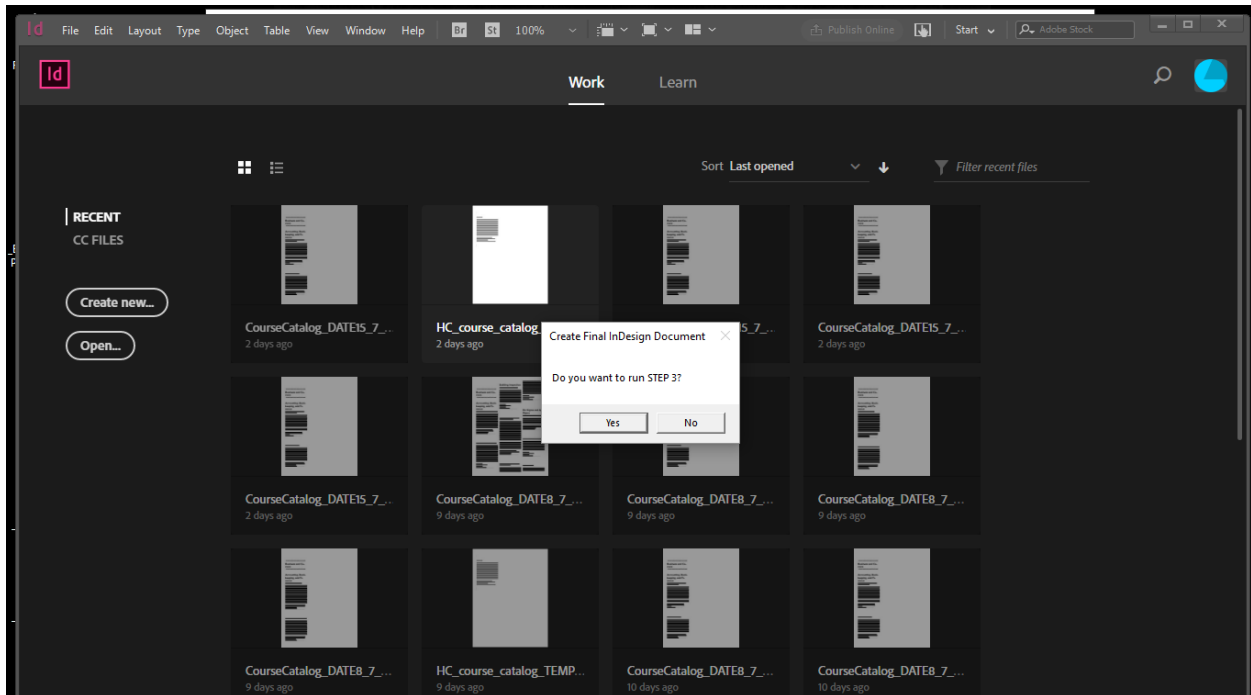

Figure 14:

If the user chooses "YES" to run step 3, then processing will occur and then a processing completed screen will be presented containing the name of the InDesign document that was created. *(See Figure 15)*
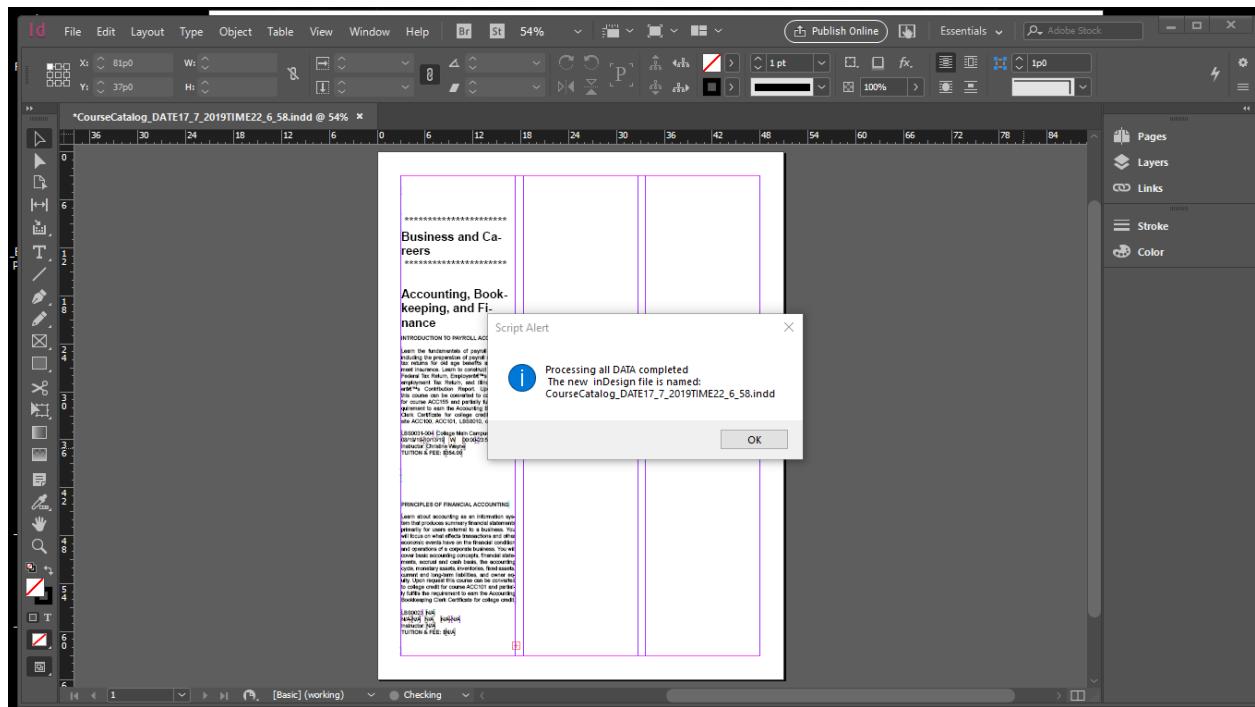

Figure 15:

Using the selection tool, the user should click to select the overflow text by clicking on the **little red plus** sign in the bottom right corner as indicated in *(See Figure 16)*. The cursor will change to indicate it has the overflow text. Then shift-double-click to flow in the overflow text. Multiple pages will then be created to accommodate all the courses that will be included in the guide. *(See Figure 17).*

Next in InDesign click on File=> Save.   The final file is now saved. (See Figure 18)
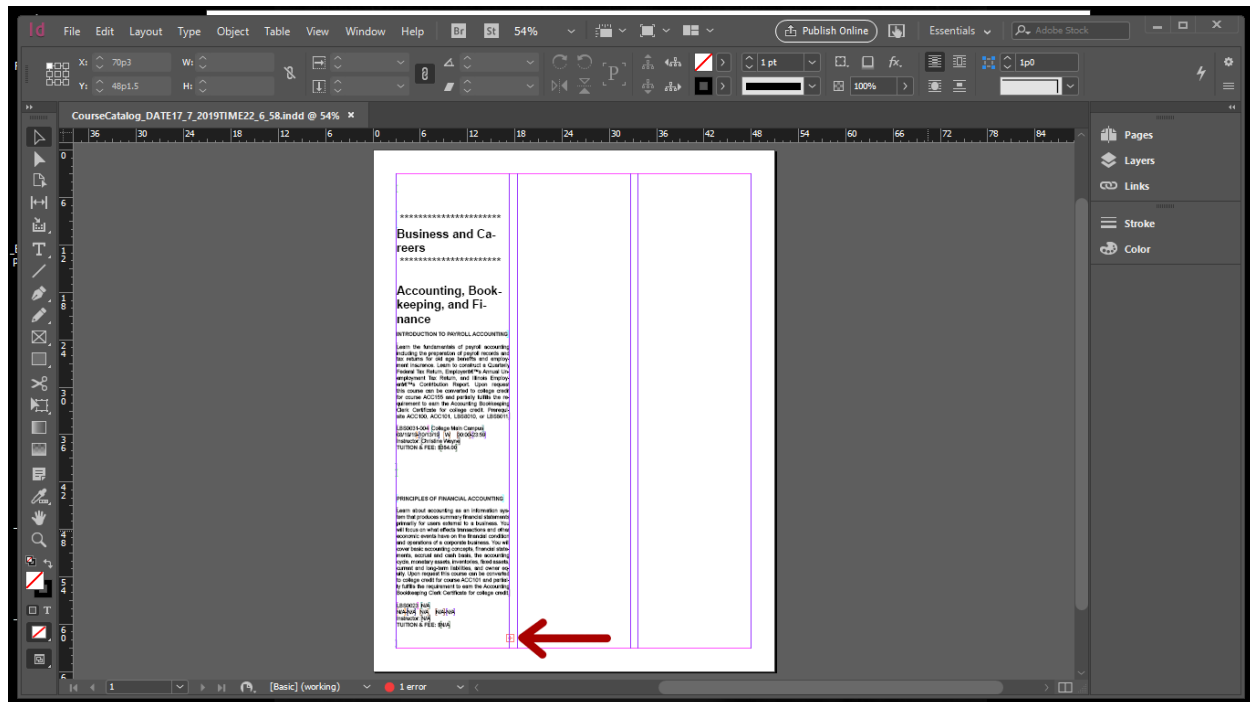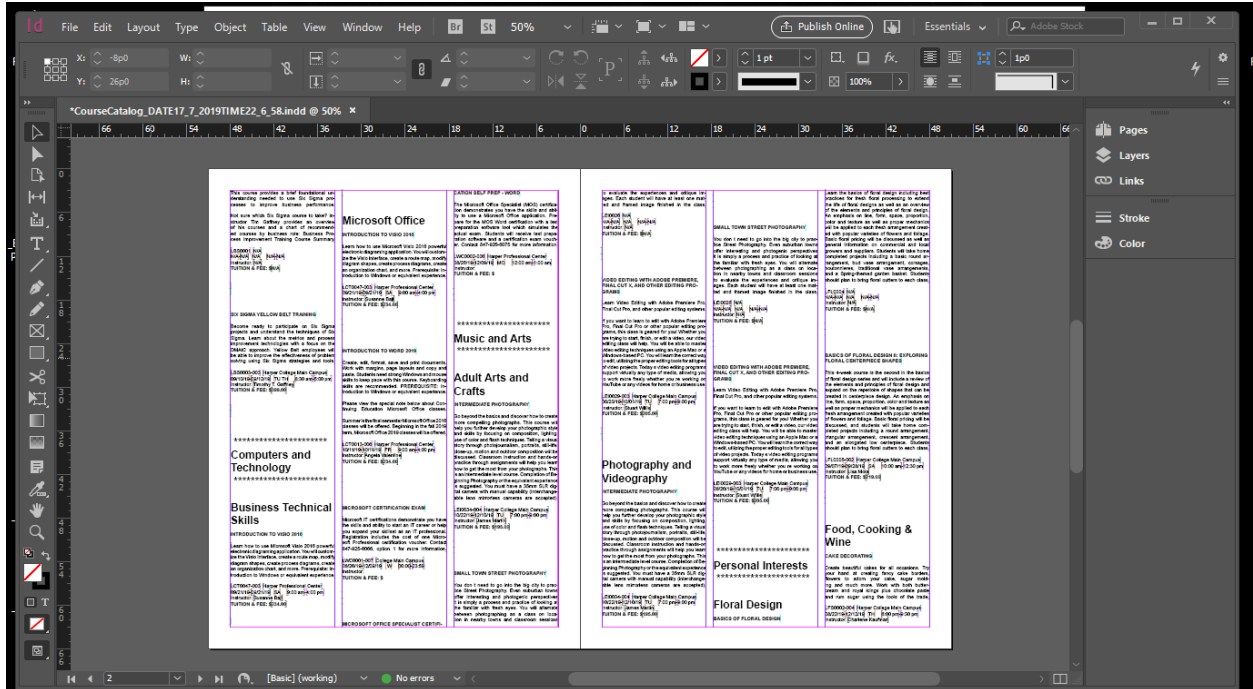

Figure 16:

Figure 17:

The system created a new InDesign file that you can now edit. The name of the file has the form "CourseCatalog_DATE00_0_000TIME00_00_00.indd" the "0's" will be replaced with the date and time of file creation.
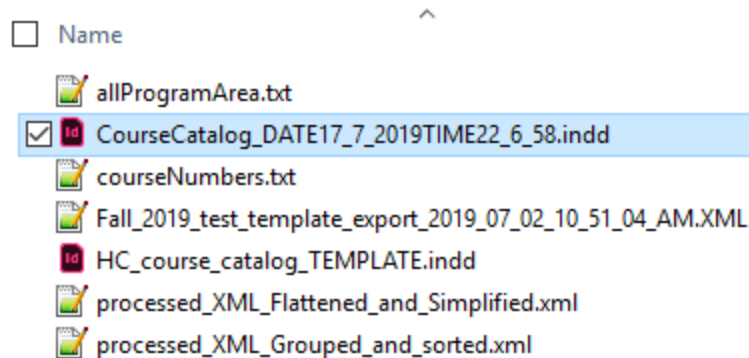

Figure 18:

This InDesign file is now ready for manual editing.