Grading Process

Ralph W. Crosby, PhD. 01-Feb-2023 12:01:59

1 Grading Process

Assumes Grading directory is pathed (via .envrc)

1.1 Pre-processing

1. Make Directory Structures, copy file templates

From the assignment root directory:

MakeStructure.sh

2. Tailor assignment specific grading configuration and template files

In the assignment Grading directory:

- GradingTemplate.md
- GradingConfig.sh
- 3. Build student directories from downloaded zip file
 - From the assignment Grading Directory
 StudentDirectoriesFromZip.sh ~/Downloads/<zipname>
 - A individually downloaded file can be processed from the Grading directory with StudentDirectoryFromDownload.sh <LastName> <FirstName> ~/Downloads/<zipname>
- 4. Make the grading markdown files

From the assignment Grading Directory

- On-Time Submissions MakeGradingFiles.sh
- Late Submissions
 MakeGradingFiles.sh -late

1.2 Grade Assignments

1.3 Post-processing

1. Make feedback files

From the Working directory:

MakeFeedbackFiles.sh

2. Proof feedback files and remake as required

From the assignment Grading/Working directory

```
find . -type f -name '* - Feedback.pdf' -exec open {} \;
```

3. Create links to the feedback files

From the assignment Grading/Feedback directory

find ../Working -type f -name '* - Feedback.pdf' -exec ln -s {} . \;

2 Environment Variables

Note: all variables must be exported so Python can access them

2.1 Course Level GradingConfig.sh

• CourseNumber

- CourseName
- AssignName

2.2 Student Assignment Level Info.sh

- StudentCode
- StudentFirstName
- StudentLastName
- StudentTimestamp
- StudentSubmissionFile

3 Scripts

3.1 MakeStructure.sh

Build the grading directory structure in an assignment directory

See -h output for details.

Files Used

- ../../GradingTemplate.md
- ../../GradingConfig.md

3.2 StudentDirectoriesFromZip.sh

Process a downloaded zip file of student submissions building one directory per student. Expand the student compressed file into the directory

See -h output for details.

3.3 MakeGradingFiles.sh

Loop through the student directories building tailored grading files

From the grading directory

MakeGradingFiles.sh

See -h output for details.

Files Used

- ./GradingTemplate.md
- ./GradingConfig.sh

3.4 MakeGradingFile.py

Tailor the grading template file into the student specific file

Assumes Assign, Course, and Student environment variables are set

MakeGradingFile.py <template> <output>

3.5 MakeFeedbackFiles.sh

Build pdf files from the grading files

See -h output for details.

3.6 Markdown2Pdf.py

Build a pdf file from a markdown file using a standard pandoc configuration file

Markdown2Pdf.py <markdown input file> <pdf output file>

See -h output for details.

Files Used

- scriptdir/Markdown2Pdf_PandocConfig.yaml
- ~/SharedEnnironment/Latex/CofCGrading.sty

4 LaTeX Processing

4.1 Heading block:

CSCI-xxx - Course Title

Assignment Title

Student Name

File Submitted: filename

Submission Time: timestamp

4.2 Related Files

- Markdown2Pdf_PandocConfig.yaml Pandoc configuration file
- Markdown2Pdf.py
 Python script to build a single pd
- SampleMarkdown.md Sample file for testing
- SamplePdf.pdf Sample output file from testing
- CofCGrading.sty
 Part of SharedEnvironment/Latex