COMP IV Fall 2018 Dr. Wilkes

Projects Portfolio

Overview

You are to create a report that presents a portfolio of all of your work over the semester.

For each assignment, the portfolio should include:

- 1. The PS number and title of the assignment
- 2. A discussion of the assignment itself and what you accomplished.
- 3. A discussion of one or more key algorithms, data structures, or OO designs that were central to the assignment.
- 4. A discussion of what you learned in the particular assignment.
- 5. Evidence that the code ran -- e.g., screenshot, console log, text output, results of running tests.
- 6. If you didn't complete any part of any assignment, the things that you didn't do, or didn't get working.
- 7. Nicely-formatted source code listings for all source code comprising the assignment.
 - Code must be displayed in a monospaced font.
 - Should display line numbers

Please remember that this assignment is worth 15% of your overall class grade.

The assignment is due at 11:00 AM on Friday, December 21. Late work will not be accepted.

Format

The document must be a delivered as a single PDF file.

The document should have the following sections:

- Cover page and table of contents. This should be a single page that has your name on it, the date, and a listing of each assignment.
 See <u>pp_cover_Fall2018.docx</u> as an <u>example</u>.
- For each assignment, the items numbered 1 through 7 above, in the order listed above.

Additional notes:

 Make sure to include a discussion of what you learned in the assignment. If you already knew everything, say that and explained where you learned it. On the other hand, if some aspects of the assignment challenged you, describe this. COMP IV Fall 2018 Dr. Wilkes

- Code listings should be provided in this order:
 - Makefile
 - cpp source for the main routine
 - hpp source for supporting class file
 - cpp source for supporting class file
 - Any additional .hpp and .cpp files as part of the assignment

Do NOT put all the code at the end of the document. Instead, put the files associated with each problem set immediately after the narrative for that PS.

Document Production Tools

You may use any tools you like to produce the document. The rest of this section presents a set of open-source document creation tools you may wish to use:

- enscript creates nicely-formatted PostScript output from text source code files.
- ps2pdf converts PostScript files to PDF files.
- pdftk "PDF Tool Kit" will assemble multiple PDFs into a single PDF.

enscript

The Unix utility enscript may be used to make formatted versions of your source code files. The -C option adds line numbers (which you can then use in your narrative to refer to specific sections). I like the --margins=50:50:50:50 to set up the margins nicely. Use the -ooption to direct the output to a file.

This will produce a PostScript (ps) output file. Then, use ps2pdf to make a PDF file.

E.g., for the GuitarHeroLite.cpp starter file, use these commands:

```
enscript -C --margins=50:50:50:50 GuitarHeroLite.cpp -o
GuitarHeroLite.cpp.ps
ps2pdf GuitarHeroLite.cpp.ps
```

and then you will have a file named GuitarHeroLite.cpp.pdf.

A word processor that outputs PDFs

Use any word processor you like and save individual assignment narratives as PDF files.

pdftk

Use the Unix utility pdftk to assemble separate PDFs into a single one.

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If you name your files like this:

```
00_narrative.pdf
01_code1.pdf
02_code2.pdf
```

Then you can assemble these using:

```
pdftk ??_*.pdf cat output section_name.pdf
```

Create numbered sections for each assignment, then assemble them into the whole PDF.

Turn in

Turn in complete portfolio as a single PDF file.

Name the PDF file Lastname_Firstname_Comp4Fall18.pdf.

Submit to: Blackboard - Portfolio assignment page