Project 6: Semester Project – Final submission

Introduction

Project 6 is the final of three parts for your Semester Project. It is due Friday 12/4 – worth 100 points; this is the final project delivery with recorded demonstrations required (detailed below).

Project 6 Deliverables

Your deliverables for Project 6 are listed below:

Final Report – PDF – 40 Points

- Name of project and names of all team members
- Final State of System Statement
    - A paragraph on the final state of your system, what features were implemented, what features were not and why, what changed from Project 4/5
- Final Class Diagram and Comparison Statement
    - A thorough UML class diagram with your final set of classes and key relationships of the system
    - Highlight and document in that diagram any patterns that were included (in whole or part) in your design
    - Include the class diagram submitted in Project 4, and use it to show what changed in your system up to the final submission
    - Support these diagrams with a written paragraph identifying key changes in your system since your design was submitted in Projects 4 and 5
- Third-Party code vs. Original code Statement
    - A clear statement of what code in the project is original vs. what code you used from other sources – whether tools, frameworks, tutorials, or examples – this must be present even if you used NO third-party code - include the sources (URLs) for your third-party elements
- Statement on the OOAD process for your overall Semester Project
    - List three key design process elements or issues (positive or negative) that your team experienced in analysis and design of the OO semester project

Code Submission – GitHub Repository URL with Complete Semester Project System – 30 Points

- Code should be well structured and documented with appropriate comments.
- Uses of OO Patterns or other design principles should be noted in the code, and any third party elements should also be noted (with URL or other citation).
- Include a README Markdown file with the names of team members and any special instructions to run the code (graders may request assistance from you during code review)

Demonstration – Recorded demonstration video – 30 Points

- The recorded video should be brief, 10 to 15 minutes; all team members should be included if at all possible. Zoom is an effective way of sharing a screen for your application and allowing the team to comment on the work while recording.
- Sections for the recording:
    - Introduce all team members
    - Discuss (generally) who was responsible for which elements of the submission
    - Demonstrate you final application, identify the technologies used and the primary functions
    - Reflect on anything that did not go as planned or that you would do differently
- You will be assessed during the demo on the quality of the project delivery and on your demonstrated understanding of your project

Grading Rubric

Your team's project will be **due on Friday 12/4 at noon**. **THERE WILL BE NO EXTENTIONS GIVEN** due to the demonstration and grading schedules. The late penalty is modified for this project: the first 4 hours after the due date/time have no penalty, after that point a flat 5% penalty is charged; however please note, the project **will not be accepted** after the hard deadline of **Monday 12/7 at midnight** (the last day of classes).

The point breakdown of this assignment is as follows:

Section	**Points**	**Comments**
Final Report PDF	40	PDF in Repo: Title/Names, Four Statements, UML Class Diagrams
Code Submission	30	Repo with Code and README
Demonstration	30	Recorded video submitted in Repo
Total	100	

- Graders will have extra credit awards which we will optionally make to best in class submissions – they may be awarded for outstanding effort or execution of the project – 5, 10, and 20 point awards – to make based on the results of demonstrations and submissions. Those awards will be announced after grading and demonstrations complete.
- For UML Diagrams, you can use a scan of a paper or whiteboard diagram, or use your favorite UML tools, such as Draw.IO. If done on paper/pencil or whiteboard, please be sure the diagrams are readable and clear.
- Your submission should be a link to your project GitHub repo, the final report PDF should be in the repo, clearly labeled, as should the demo video.
- Please contact the class staff EARLY in the cycle for questions, clarifications, or variations for your project. Class staff are happy to review your design or code to discuss issues you're running into now! Don't wait until it's too late!