

## Project 7: Semester Project – Final submission

### Introduction

Project 7 is the final part of the Semester Project, due Wed 12/8 – worth 100 points with 5/10/20 point possible bonuses. This is the final delivery of your project code and support with recorded team demonstrations.

### Project 7 Deliverables

Your deliverables for Project 7 are listed below – Final Report, Code, Recorded Demonstration

#### Final Project Report – PDF in submission repo – 40 Points

1. Name of project and names of all team members
2. 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 5 and 6
3. Final Class Diagram and Comparison Statement
  - A thorough UML class diagram representing 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 5, and use it to show what changed in your system from that point into the final submission
  - Support the diagrams with a written paragraph identifying key changes in your system since your design/work was submitted in Projects 5 and 6
4. 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 section must be present even if you used NO third-party code - include the sources (URLs) for your third-party elements
5. 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 your 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 URLs or other citation).

- Include a basic README Markdown file with the names of team members, language version, and any special instructions to run the code (graders may request assistance from you during review)

### Demonstration – Recorded demonstration video – 30 Points

- The recorded video should be brief, 10 to 15 minutes; all team members should participate. Zoom is an effective way of sharing a screen for your application and allowing the team to comment on the work while recording to an MP4 file. Include the recording in your repo or provide an external link for viewing.
- Sections for the recording:
  - Introduce all team members
  - Discuss (generally) who was responsible for which elements of the submission
  - Demonstrate your 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 Wednesday 12/8 at 8 PM**. **There are no extensions** due to the demonstration and grading schedules. The standard late penalty is in place for this project: the first 4 hours after the due date/time have no penalty, submissions in the next 48 hours have a 5% penalty, the next 48 hours have a 15% penalty, and the project **will not be accepted** after Sunday 12/12 midnight.

The point breakdown of this assignment is as follows:

Section	Points	Comments
Final Report PDF	40	PDF in Repo: 5 sections with initial/final UML Class Diagrams
Code Submission	30	Repo with Code and README
Demonstration	30	Recorded video submitted in Repo (or via an accessible link)
<b>Total</b>	<b>100</b>	

- **Graders will have extra credit awards** which we will optionally make for the 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 provided with your final project grading.
- 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 diagrams are 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 are running into now. Do not wait until it is too late!