

CSCI 4440 — Software Design and Documentation  
Team Deliverable 3 (document version 1.0)  
DUE November 10, 2020

## Overview

- This third set of team deliverables is to be completed by your team and is due by 11:59PM EDT on the due date shown above
- One team member must define your team in Submittity in the Team Deliverable 3 gradeable, then other team members can be invited to join
- Once your team is formed in Submittity, only one of you need submit your final work; **and if submitted late, all group members must use a late day, so plan accordingly**

## What to do

For this third set of team deliverables, your focus is on design. And as per usual, your submission must be a single well-organized PDF file.

## Team logistics and evaluation

At this stage, your project team should be meeting regularly and communicating seamlessly. Team members should be filling their respective roles, and the individual success criteria identified in Team Deliverable 2 should be reviewed and met.

Given the above, **include the following details as the first part of your PDF:**

- Your team name (e.g., “Vote for Pedro”) and each team member’s name and role
- Any changes to your team dynamics, individual roles, weekly team meetings schedule, how meetings are run, where to find meeting minutes and other artifacts, etc.
- Of the success criteria you identified in Team Deliverable 2, **describe the one criterion that you view as being the most difficult to achieve (and why)**

## Project status reports

As with Team Deliverable 2, **write a project status report that summarizes the current state of your project (shortly before the deliverable due date).** The project status report **describes an up-to-date list of issues encountered (since Team Deliverable 2).** And **for each issue, include a brief summary, the person responsible for resolving the issue, and how the problem is being solved or was solved.**

Remember that your project status report also **must include a summary of how each team member contributed to the specific set of deliverables.** This helps ensure that each team member is taking an active role in each aspect of the project.

## Project deliverables

Focus on the design of your project by including the following (in the order shown):

- A brief (one paragraph?) high-level description of your system’s design, which must be object-oriented; write this in such a way that your stakeholders should generally be able to understand it
- Use cases from Team Deliverable 2 with any revisions, additions, etc.<sup>1</sup>
- A summary (a few paragraphs?) of how your analysis classes have changed since you submitted Team Deliverable 2
- Design class diagrams; using proper UML notation, present your design classes, associations, relationships, attributes, operations, etc.
- Within your class diagrams, add a UML note to briefly describe how your design classes map back to analysis classes, i.e., add a UML note to the corner of each diagram as described in lecture
- Within your class diagrams, add at least three UML notes that indicate where you make use of specific design patterns
- Also within your class diagrams, include at least three UML notes with unanswered questions (e.g., a design decision yet to be made, a gap in the requirements that the design reveals, etc.)
- Sequence diagrams; a sequence diagram shows how a specific use case is *realized* within the design, i.e., how objects interact with one another to implement specific behavior; using proper UML notation, provide at least six sequence diagrams originating with your use cases

## What to submit

Package all of your work into a single PDF file. Be concise and succinct in your answers. As noted in previous assignments, we are not looking for a minimum page count or word count, so avoid “fluff” and document bloat! **Only include what is important.**

For all work in this course, make sure you use a uniform and consistent style and format.

Also, be sure to proofread your work as a team before submitting. We will assign grades (and provide feedback) based on the above details and the quality of your writing.

Though not required for this deliverable, feel free to make use of the Center for Global Communication+Design (COMM+D) at <https://info.rpi.edu/comm-d>.

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<sup>1</sup>There might be zero changes to your use cases, but please include them as a reference.