CSC 440/540 Software Engineering Project - Inception Phase

Vision

Write a project vision statement, following the process illustrated in the guidelines in chapter 7 of the textbook. Format the vision statement by following the example in chapter 7. All sections (Positioning, Stakeholder Descriptions, Product Overview, Summary of System Features, Other Requirements and Constraints) must be included. Irrelevant subsections for a class project, such as the Business Opportunity, Market Demographics, and Cost and Pricing do not need to be included.

The vision document should be at least 3 pages in length, but should not be much longer than that. Detailed functional requirements should be documented in the Use Case Model, but non-functional requirements should be documented in the Other Requirements and Constraints section of the Vision. Develop the Vision statement in parallel with the Use Case Model, so that each document provides inspiration for changes in the other. Ensure that the vision statement fulfills the technical requirements for the team project.

Use Case Model

The process of use case development starts by identifying actors and use cases from the requirements data followed by writing brief descriptions of each use case and analyzing the connections between use cases. This should be an iterative process, as the process of developing one use case will often lead to the identification of new use cases. Use case names should start with a verb and should not include the name or names of the actors involved. Refer to the text and to [7 tips on how to write good use case names](#) for guidance on naming use cases.

The Use Case Model documents the entire set of use cases with a use case context diagram (see the example in Figure 6.3 of the textbook). The team must create 6 fully dressed use cases using the template in Section 6.8 of the textbook. While your system will require more than 6 use cases in total, these additional use cases will be added to the system in future iterations. You may want to list the names of additional use cases in this Use Case Model to help the team plan for future iterations.

Deliverables

Before the end of day on the due date, the team must have completed the following deliverables. All document deliverables must be stored under the `deliverables/inception` directory in the team git repository (in our GitHub classroom).

1. Upload the Vision Statement as a PDF document to the team git repository under a path named `deliverables/inception`.

2. Upload the Use Case Model as a PDF document to the team git repository under the same path `deliverables/inception`.
3. Upload the Inception Presentation as a PDF document to the team git repository under the same path `deliverables/inception`.
4. Each team member must fill out the peer evaluation, which is worth 10% of the assignment grade.

Each team must present their Inception work, with a focus on use case analysis to the class. The presentation should include all of the use case diagrams, but the team must not explain each use case step by step. The audience can read the diagrams on the slides. The purpose of the presentation is to explain the analysis and design decisions that went into the use case diagrams. If team members disagreed on a decision on how to design the use cases, note that in your presentation and explain both sides of the disagreement and how the team can to a final decision. Presentations should be around 10-15 minutes in length, with 1-2 minutes for each use case design discussion and the remaining time to discuss the vision.

The instructor may require changes to the Vision Statement and Use Case model if they differ too much from the project description. If changes are required, the team must resubmit the documents within one week of receiving notice that changes are required.