Assignment 4: Analysis to Design
Joint Assignment with CSS502

In this assignment you will transition from requirements to design and then to code in CSS502. Thus, you will create robustness diagrams, a sequence diagram, and a class diagram. Please refer to the CSS502 course website for the project description.

Checklist:
The following list defines the minimum requirements for the analysis models. All diagrams must be drawn with a CASE tool (e.g. MS Visio, Rational Rose, ArgoUML) except where explicitly noted otherwise.

Deliverable	Minimum
Robustness Diagram 1. Shows entity objects, boundary objects, controllers 2. One robustness diagram for each use case description	2 Use Case descriptions + 2 robustness diagram
Sequence Diagram 1. Shows the interacting objects and messages between the objects 2. One sequence diagram for each use case description	2 Sequence diagrams
Class Diagram 1. Shows the objects within your system, their relationships (e.g., aggregate and generalization), their attributes and operations	1 diagram

Evaluation Criteria

Criteria	Evaluation
Robustness Diagram	• Is syntax correct? Are at least two different use cases documented? • Are the alternate courses included and color coded? • Is all of the interaction between interfaces, processing, and data complete? Are the classes identified meaningful objects that appropriately

	partition the task?
Sequence Diagram	• Is the syntax correct? Are at least two sequence diagrams provided? • Does the sequence accurately reflect the use case in time and in actions? Are the actions/methods meaningful and enough detail to carry the expected task if implemented? • Are the objects classes in the domain data model if appropriate? Are enough object classes defined to carry out the functionality expected or too general "do-it" functionality?
Class Diagram	• Is the syntax correct? • Are the classes carefully selected from the Sequence Diagrams? • Is the relationship between objects specified? Multiplicities specified? • Are the attributes and methods specified for the classes?
Summary and Effort	Does the document appear professional in nature? Are the diagrams easy to understand? Were CASE tools used to create diagrams? Did the models meet and exceed the minimum requirements?

Points: 60