EECS 486 Object Oriented Software Development
Project 2 Requirements Document Description

Possible Points: 100

Assigned Date: 12OC01
Due Date: 29OC01

The objective of the Prototype 2 Requirements Documentation is to increase the complexity of applying UML modeling techniques to a project. A secondary objective is to partition what the system does (requirements) and how it is implemented in software (design).

Several changes to the project between Proto 1 and Proto 2 include:
- Increase the domain complexity from toys to transaction management systems;
- Groups of 4-5 chosen by the instructor (may be original groups).

The domain of project 2 is transaction management systems. The three projects available are:
- Grocery store 'U-scan';
- Automatic Teller Machine (ATM).

As always, the content of the requirement document is described on page 2. In general, the form is to first describe the notation of the diagram type. Next, the diagram for the group's specific application is given. Finally, the diagram for the system is textually described in full.

The Requirements Document is a system-level view of the implementation focusing on *what* the system does, rather than *how* the code is implemented. Thus all diagrams should focus on describing system-level functionality easily understood by a customer. As an example, the system level class diagram contains only *responsibilities* that are necessary to describe the class. No class attributes or operations are expected in the requirement document.

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Project 2 Requirements Grading Template

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Introduction   10 points
      Overview

System Level Requirements

    Use Cases   20 points
        Notation Description   5 pts
        System Level Use Case Diagram   10 pts
        Use Case 1 Description   5 pts
        :
        Use Case n Description

    Structural Model   20 points
        Notation Description   5 pts
        System Level Class Diagram   10 pts
        Class Diagram Description   5 pts

Behavioral Analysis

    State Behavior   20 points
        Notation Description   5 pts
        System Level Statechart Diagram   10 pts
        Statechart Diagram Description   5 pts

    Interaction Behavior   25 points
        Sequence Diagram Notation Description   5 pts
        Sequence Diagram: Scenario 1   7.5 pts
        Sequence Diagram Description   2.5 pts
        Sequence Diagram: Scenario 2   7.5 pts
        Sequence Diagram Description   2.5 pts

References   5 points

Note: Approximately 2/3 or the points are awarded for content and 1/3 of the points are awarded for form.