

# EECS 486 Object-Oriented Methodologies

## Project 1 Documentation Description

**Possible Points: 50**

**Assigned Date: 17JA03**

**Due Date: 31JA03**

The objective of the Project 1 Documentation is to allow the students to apply newly learned UML techniques to a project. Students will work in groups of four (randomly chosen by professor) for the Project 1 documentation and implementation. Page 2 describes the contents of the Project 1 documentation by describing the form of the report.

The domain of project 1 is a moderately complex, home-based software system. Examples include a controller for a 6-zone lawn sprinkling system or a programmable thermostat for a heating/air conditioning system.

Students are given both the physical system and the user manual for the system. The objective is to re-engineer a descriptive document that explains the system using the Unified Modeling Language. Note that in the second partition of this project, students will implement the system software from this documentation.

As mentioned, the content of the documentation is described on page 2. The form of the documentation is to first describe the notation used in a particular diagram type. Next, the diagram for the group's specific application is given. That is, the graphical representation is included. Finally, the diagram for the system is textually described.

For the System Level Class Diagram, only *responsibilities* are necessary for this document. However, the students may include *attributes* and *operations* if known.

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## Project 1 Documentation Grading Template

Introduction	5 points
Overview	
System Level Design	
Use Cases	15 points
Notation Description	
System Level Use Case Diagram	
Use Case 1 Description	
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Use Case n Description	
Structural Model	15 points
Notation Description	
System Level Class Diagram	
Class Diagram Description	
Instance Analysis	10 points
Scenario 1 Description	
Scenario 2 Description	
References	5 points

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