

EECS 486 Object Oriented Methodology

Project 2 Design Document Description

Possible Points: 100

Assigned Date: 18MR03
Due Date: 01AP03

The objective of the Project 2 Design Document is to fully describe the implementation of the system prior to writing any code. The Design Document is a system- and class-level view of the implementation focusing on *how* the code is implemented. Recall that *what* the system does was described in the Requirements Document.

The approach of the description is to first, include the class diagram from the Requirement Document to set context. Next, architectural models are included to describe both physical software and physical hardware deployment. Finally, the project is decomposed into individual classes with a thorough description of each class's constituents.

As always, the content of the design document is described on the following page(s). 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.

Notes:

- *Approximately 3/4 of the points are awarded for content and 1/4 of the points are awarded for form.*
- *Document must describe behavior of at least two classes using Statechart Diagrams.*
- *Document must describe behavior of at least four operations using Activity Diagrams.*

Project 2 Design Document Grading Template

Introduction (can be cut and paste from Proj2 Req Doc)	5 pts
Overview	
System Level Design	
Structural Model (can be cut and paste from Proj2 Req Doc)	45 pts
Notation Description	5 pts
System Level Class Diagram	5 pts
Class Diagram Description	5 pts
Software Deployment	
Notation Description	5 pts
Component Diagram	5 pts
Component Diagram Description	5 pts
Hardware Deployment	
Notation Description	5 pts
Deployment Diagram	5 pts
Deployment Diagram Description	5 pts
Class Level Design	45 pts
Class	
Field Description	2.5 pts
Activity Diagram Notation Description	2.5 pts
Class 1..n	40 pts
Name	
Description/Responsibilities	
Behavioral Model (if behavior is complex enough to justify)	
Attributes	
Attribute Dictionary Entry	
Attribute 1..m	
Name	
Description	
Type (e.g., int, real, long-real, enumerated, ...)	
Units (e.g., deg F, meters, ...)	
Range	
Resolution	
Operation	
Operation Dictionary Entry	
Operation 1..p	
Name	
Description	
Output (must have Attribute Dictionary Entry)	
Input (must have Attribute Dictionary Entry and ref to owner)	
Behavioral Model (if behavior is complex enough to justify)	
References	5 points