

Object-Oriented Design

CSC305 – Fall 2004

Due Date: Wednesday Nov. 3rd, in Lab

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Document: The object-design document consists mainly of the specification perspective UML class diagram. You are to develop such a diagram for your system. The UML diagram should contain all the information pertinent to a specification perspective diagram (attributes, operations, visibility specifiers, navigability). The main focus of this perspective is the identification of system level classes such as user interfaces, databases, and application logic objects.

Should the diagram for your overall system contain more than 9 classes you will need to break your diagram into subsystems and develop a separate class diagram for each subsystem. If you do break your system down into subsystems your document will also need to include a high-level class diagram (treating each subsystem as a class) that shows how the subsystems are related to each other.

If you have a relational database or use the file system to make data persistent in your design, you will need to include an ER (Entity Relationship) diagram of the database or file(s).

Consistency: It is important that your documents developed so far agree on all the details. If you find that you need to change any of the documents please make the needed changes and hand them back in together with the object-design document. We will be checking for consistency and it is part of the grade.

Grading: You will be graded both on the content, readability, and consistency of your document.

Grading Sheet – OOD

- 20% Identification of objects
- 20% Important methods and attributes
- 20% Identification of relationships (composition, inheritance, responsibilities)
- 20% Multiplicities and navigability of relationships
- 10% Organization of objects (layered architecture, subsystems)
- 10% Clear communication of organization and decomposition using diagrams and text, consistency