

OOAD Assignment 2

Deadline: 3rd Aug, 2016

1. What is a Domain Model? Explain the need for Specification Conceptual classes.
2. Explain why “all systems are treated as a black box” in System Sequence diagram? Provide example.
3. Why are operation contract essential. Explain
4. Provide the steps used in preparing a operation contract.
5. What do you mean by association. Why is need to know association important during the construction of conceptual model.
6. Differentiate between Creator and Information Expert pattern with example.
7. What do you mean by System Event and System Operation? Draw a System Sequence diagram for return book use case for a Library system.
8. Differentiate between Collaboration and Sequence diagram. Why is interaction diagram considered as a valuable document during OOD?
9. When is it desirable to use controller pattern instead of using information expert pattern while assigning responsibility to objects. Explain with a suitable example.
10. What do mean by GRASP pattern? Why do we need to focus on low coupling and high cohesion? Explain with an example in terms of low coupling and high cohesion pattern.
11. Case Study:
Develop- use case model, SSD, operation contract, sequence and collaboration diagram for the following scenario.

A customer can check balance, withdraw cash or transfer funds via the ATM card the bank provides him. All the ATM transactions involve validating the user before proceeding for the results. If the customer wants to deposit money, then he does that with the help of the bank cashier. The bank system have appointed a Maintenance person for refilling the cash in the ATM system.