



Final Ooadspring 2015 - Practice questions for OOAD

Object Oriented analysis and design (University of Engineering and Technology Lahore)



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Object Oriented Analysis and Design
Final term Paper

Time: 120 minutes

Total Marks 50

Queries are not allowed. Understanding is part of paper.

Question # 1

An online music retailer has decided to create a new service product. Customers will be able to pay for electronic “gift tokens” (of any value). They receive a short identification code that they can send to a friend by email. When the friend receives this code, they can visit the company website and use it to purchase MP3 tracks up to the specified value. Any remainder stays in an account that the recipient can use later.

1. Diagrams

- a. Sketch a UML use case diagram for the above functionality. [5 marks]
- b. Sketch a UML class diagram for a system architecture to support this functionality. [8 marks]
- c. Sketch sequence diagrams for whole scenario. [4 marks]
- d. Sketch object diagram and state transition diagrams showing the operation of the friend receives code and make purchase. [8 marks]
- e. Sketch activity diagram for interaction between Customer and friend. [4 marks]

2. For each diagram, explain what purpose this type of diagram would have within the design process. [6 marks]

Question # 2

- a. Differentiate between design pattern and Framework. [5 marks]
- b. Write a small piece of code for Singleton Pattern. [5 marks]
- c. Explain Model View Controller. [5 marks]