

Department of CSE

Lab Mid Exam

Course Title : System Analysis & Design

Course Code : CSE- 325

Task Name : 1. Use Case Diagram Of a Banking Management System.

2. Class Diagram of an Online Shopping System.

Submitted By:

ID : 171442594
Name : Md. Shamim Hossain
Program : CSE (EVE)
Batch : 44th

Submitted To :

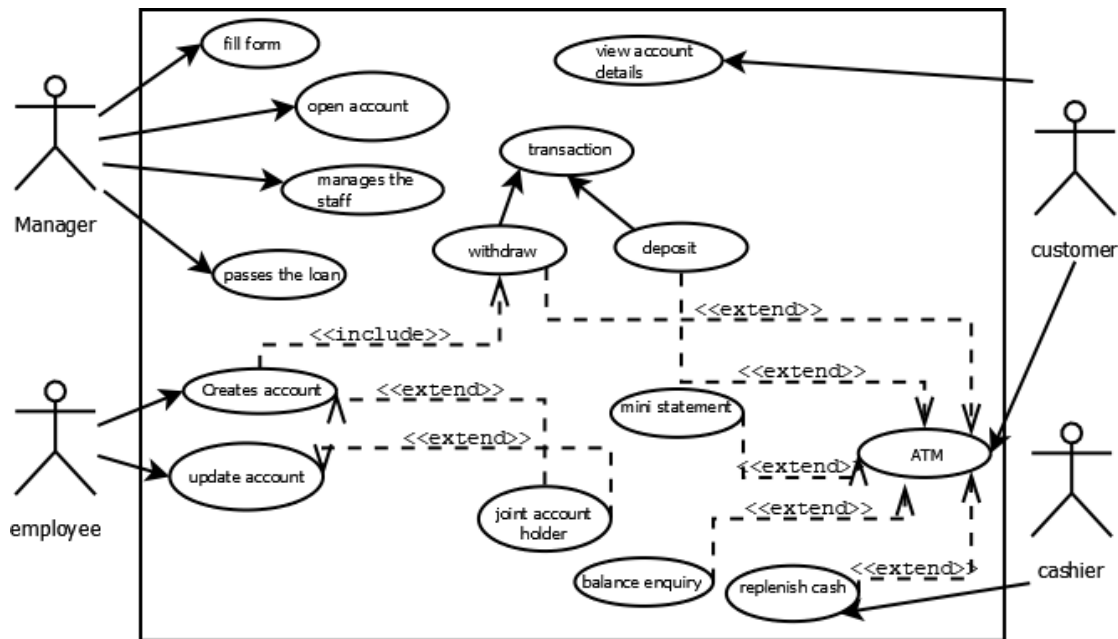
Supta Richard Philip
Senior Lecturer, Department Of CSE
City University, Bangladesh

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Use Case Diagram Of a Banking Management System.

The purpose of the diagram is to introduce some common terms, "dictionary" for online shopping - Customer, Web User, Account, Shopping Cart, Product, Order, Payment, etc. and relationships between. It could be used as a common ground between business analysts and software developers.

Each customer has unique id and is linked to exactly one **account**. Account owns shopping cart and orders. Customer could register as a web user to be able to buy items online. Customer is not required to be a web user because purchases could also be made by phone or by ordering from catalogues. Web user has login name which also serves as unique id. Web user could be in several states - new, active, temporary blocked, or banned, and be linked to a **shopping cart**. Shopping cart belongs to account.



Class Diagram of an Online Shopping System.

The class diagram is one of the most commonly used diagrams in UML, as explained in depth in my class diagrams. Software engineers and business professionals often choose class diagrams to map the structure of particular systems because they clearly display the various classes, attributes, operations, and relationships between objects.

In my examples below, you'll find that each class shape is labeled with its name in the first row, the second row displays each attribute of the class on a separate line, and the third row displays each operation on a separate line. From there, additional UML symbols are used to model the various interactions and objects involved within the process.

