Instructions

Please read the following instructions carefully before solving & submitting assignment:

Due Date:

Your assignment must be uploaded/submitted before or on **9th June 2011.**

Uploading instructions:

Please view the **Assignment Submission Process** document provided to you by the Virtual University for uploading assignments.

- Your assignment must be in .doc format.(Any other formats like scan images, PDF, Zip, rar, bmp, docx etc will not be accepted)
- Save your assignment with your ID (e.g. bc020200786.doc).
- No assignment will be accepted through email.

Rules for Marking:

It should be clear that your assignment will not get any credit if:

- The assignment is submitted after due date.
- The submitted assignment does not open or file is corrupted.
- Your assignment is copied from internet, handouts or from any other student (Strict disciplinary action will be taken in this case).

Note:

- Your answer must follow the below given specifications. Marks will be deducted if you do not follow these instructions.
  - Font style: "Times New Roman"
  - Font color: "Black"
  - Font size: "12"
  - **Bold** for heading only.
  - Font in *Italic* is not allowed at all.

- You should consult recommended books to clarify your concepts.

- It's better for you to submit the assignment well before the deadline.

- Do not put any query at MDB about this assignment, if you have any query then email at **CS507@vu.edu.pk**

Question 1:

Question: Assume the working phenomenon of <u>www.amazon.com</u>, while considering their shopping cart mechanism in mind; draw the DATA FLOW DIAGRAM for a specific department with respect to a customer?

Hint: Visit <u>www.amazon.com</u> and consider acceptable assumptions regarding online sales mechanism. Use Microsoft Word or Microsoft Visio for drawing DFD.

Note: You have to draw the complete diagram with proper labeling
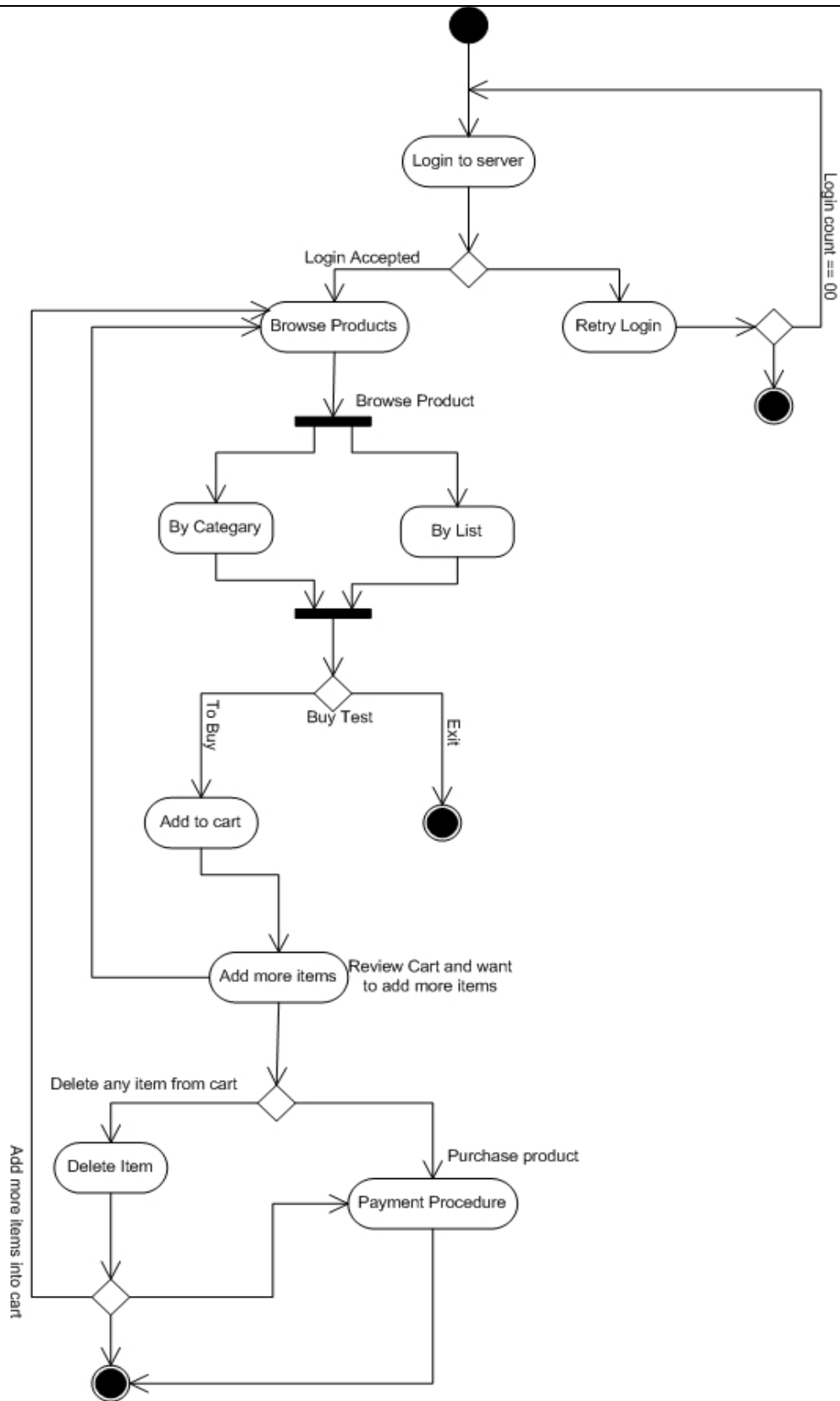
<u>**Solution:**</u>

<u>**Assumption:**</u>
In this assignment, the online shopping cart system we had assumed three actors. The customer, shop owner and delivery boy.

According to our assumption, the customer can login to the online shopping system and can view the products that are available in that specific system. The customer (user) can view the product and buy as many of them but putting them into its shopping cart. A customer can do add, delete and view operations on shopping cart.

The owner is another actor in this system, which had rights to view products and add, delete and update the products. The owner will get information from customer and shopping cart and will inform the delivery boy to deliver the items listed in shopping cart to a customer address.

There is a payment mechanism used to pay for shopping and had been used to communicate between customer and owner. Using payment customer can pay certain amount using credit card and bank payment methods.

CUSTOMER'S DATA FLOW DIAGRAM