

Student Name: _____

Course Number and Name: _____

Software Verification and Validation

Needs Statement to User Requirements

Exercise Module Number: RM10

Instructions: Discuss how each of the following expressed "needs" statement may be developed into a Use Case description for analysis and requirements specification and eventually a good design.

- ▶ **Could a Decision Tree be used?**
- ▶ **Could a Decision Table (truth table) be used?**
- ▶ **Could a Use Case be used?**

1. To order the pizza online, the customer should be able to conveniently specify size and various combinations for the choice of toppings. But certain toppings, with price discount would be offered only for the large pizza.

2. For regular pain medicine, the nurse may write in the prescription, but nurse must also send a request to one of the available doctors and anyone of them may then review of the patient record and endorse the prescription.

3. Upon receipt of the student's registration request to enroll, the system will check to make sure that the student has paid all outstanding fees. Otherwise, the request will be put on hold or denied.

4. To allow the customer check out, the cashier must scan every item, apply the coupons - some may be applicable, and some may not - and then allow different forms of payment for the purchase.

5. When the inventory level is too low, the stored procedure should also check the product overage which may be scrapped for calculating the quantity to be ordered; the order should be reviewed by the responsible manager before sending it out.