USE CASE DIAGRAMS

CLASS EXERCISE 3

**QUESTION 1**

**Draw a USE CASE DIAGRAM for the TRUCK RENTAL SYSTEM (TRS) described below:**

Your good friend Bill-Bob has approached you to develop a computerized system to help him in his truck rental business. While there are a number of aspects of the business that needs computerization, the one with top priority is the actual RENTAL process.

Customers are required to fill in a truck-rental request form, which is handed into Silly-Sue, the secretary. She will do a quick check to see that all the required information is filled in. If any information is missing, the customer will have to correct the truck-rental request form.

Customers must present their driver’s license to the secretary, who will then check if the driver’s license is valid by accessing the Traffic Department’s Licensing System. If the license cannot be validated because of outstanding fines, the law requires that the Traffic Department is notified.

Once the license validation has been completed, Silly-Sue will check for truck availability based on the customer’s requirements. Normally trucks are available. If no trucks are available, the customer will be referred to another truck rental firm.

A truck will then be assigned to the customer. The customer will then pay for the truck rental. Payment can either be cash or by credit card. If the payment is by credit card, the Credit Card Bureau must be contacted to validate the credit card. A receipt will then be printed out and the keys handed over to the customer.

**QUESTION 2**

**Draw the USE CASE DIAGRAM for the WOMBLEDIN SQUASH CLUB SYSTEM as described below:**

All squash players may register to compete in the tournament at Wombledin Squash Club (WSC). When a player registers, the Associated SQUASH PLAYER (STP) SYSTEM must be notified. Players may also cancel their registration. However, if they cancel a week or less before the tournament is due to start, they will suffer a R500 fine. This will be done by automatically updating the STP FINE SYSTEM when a late cancellation occurs.

Players may view the tournament schedule at any stage. They are also able to view the ranking of all players competing in the tournament. If they are not happy with any of the rankings, they may lodge a complaint which is forwarded to the STP RANKING SYSTEM.

Once the registration “cut-off” date has been reached, the system must determine which players qualify to play in the tournament. If a player does not qualify to play in the tournament, they must be notified.

The tournament director is responsible for scheduling the tournament matches. It is also the responsibility of the tournament director to enter the results of completed matches. These results must be sent through to the STP RANKING SYSTEM.