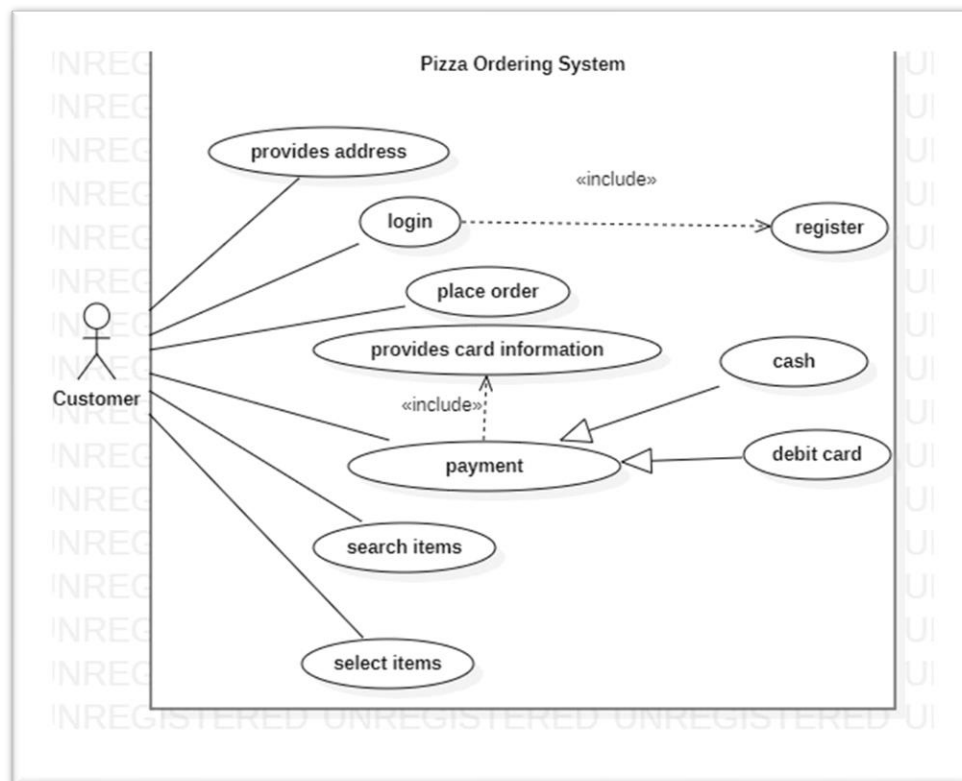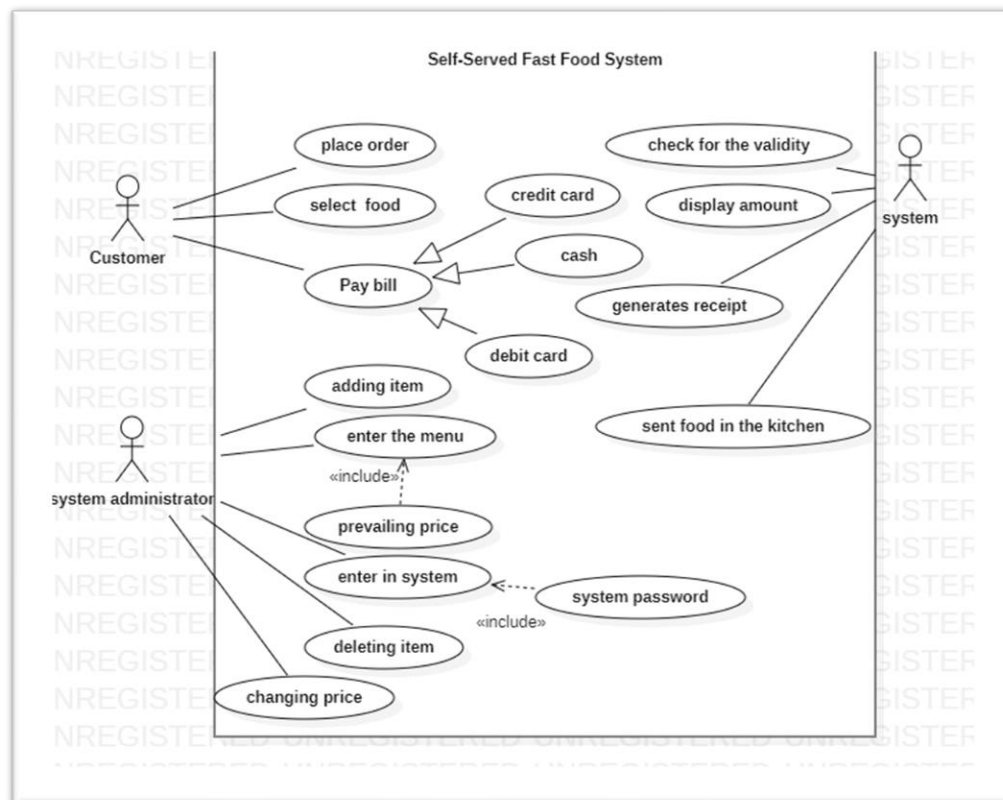# LAB: 01

Task 1: The Pizza Ordering System

The Pizza Ordering System allows the user of a web browser to order pizza for home delivery. To place an order, a shopper searches to find items to purchase, adds items one at a time to a shopping cart, and possibly searches again for more items. When all items have been chosen, the shopper provides a delivery address. If not paying with cash, the shopper also provides credit card information. The system has an option for shoppers to register with the pizza shop. They can then save their name and address information, so that they do not have to enter this information every time that they place an order. Develop a use case diagram, for a use case for placing an order, Place Order. The use case should show a relationship to two previously specified use cases, Identify Customer, which allows a user to register and log in, and Pay by Credit, which models credit card payments
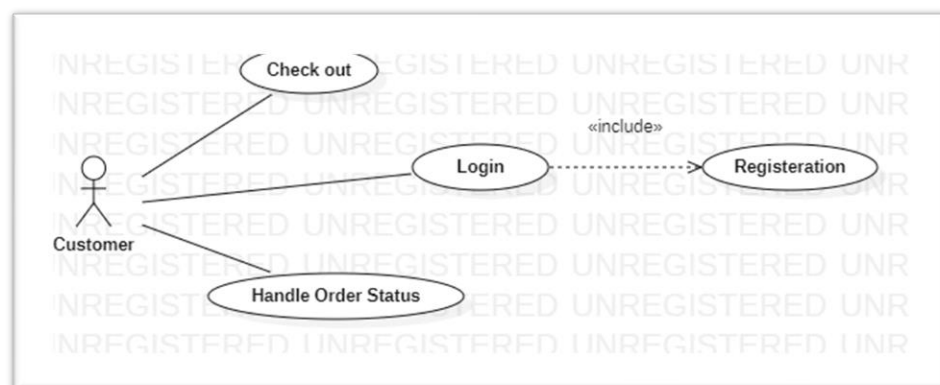

Task 2: Self-Served Fast Food System

This self-service fast food restaurant will be equipped with a user-friendly touch screen, a credit/debit card reader, and software for completing the process at the backend. For this system there will be a system administrator who will have the rights to enter the menu with their current prevailing prices. He/she can enter anytime in the system by a secured system password to change the menu contents by adding or deleting an item or changing its price. Now when the

customer enters the restaurant, he will place his order with the help of the touch screen using the intuitive graphical user interface, right from the selection of language till the payment confirmation. He will select from the food options according to his choice and the system will display the payment amount he has to make once he has finished with his order. He will have the option of paying the bill by cash, debit card or a credit card. The user will slide his card and the system will check for the validity of the card and the payment will be made. A receipt will be printed containing the order number and the order will be sent in the kitchen for processing.
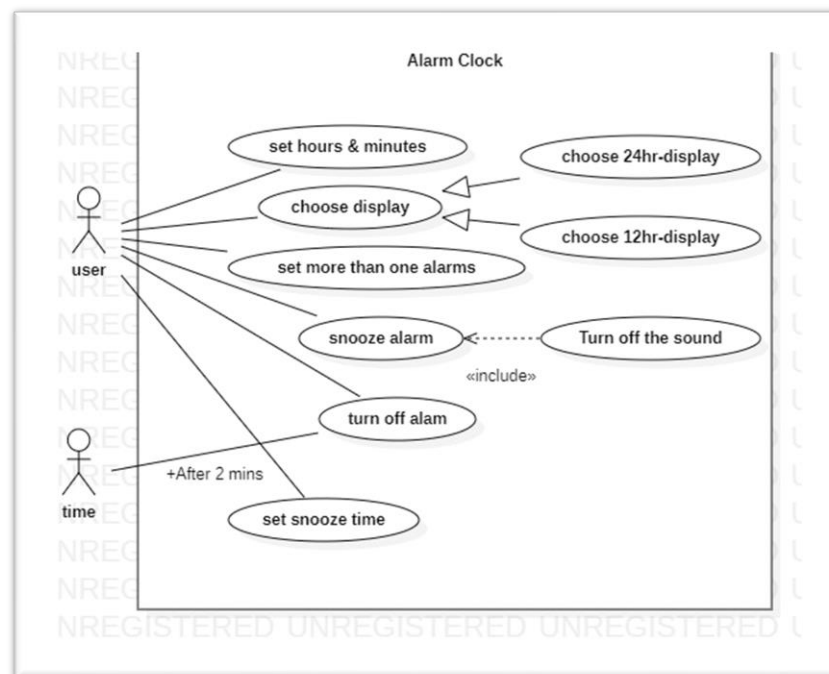

Task 3: Link the below use case diagram with appropriate relationship tags
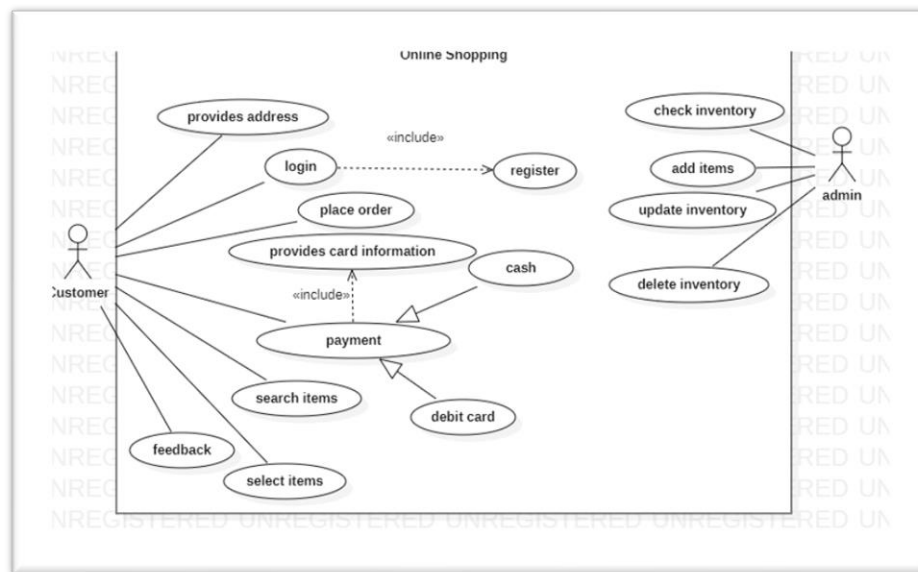
Task 4: Alarm Clock

Suppose we want to develop software for an alarm clock. The clock shows the time of day.
Using buttons, the user can set the hours and minutes fields individually, and choose between 12
and 24-hour display. It is possible to set one or two alarms. When an alarm fires, it will sound
some noise. The user can turn it off, or choose to 'snooze'. If the user does not respond at all, the
alarm will turn off itself after 2 minutes. 'Snoozing' means to turn off the sound, but the alarm
will fire again after some minutes of delay. This 'snoozing time' is pre-adjustable

Task 5: Online Shopping

Create a use case diagram based on your own scenario

(Course Registration System)

At the beginning of each semester students may request a course catalogue containing a list of course offerings for the semester. Information about each course, such as professor, department, and prerequisites will be included to help students make informed decisions. The new on-line registration system will allow students to select four course offerings for the coming semester. In addition, each student will indicate two alternative choices in case a course offering becomes filled or canceled. No course offering will have more than ten students. No course offering will have fewer than three students. A course offering with fewer than three students will be canceled. Once the registration process is completed for a student, the registration system sends information to the billing system, so the student can be billed for the semester. Professors must be able to access the on-line system to indicate which courses they will be teaching. They will also need to see which students signed up for their course offering. For each semester, there is a period of time that students can change their schedules. Students must be able to access the on-line system during this time to add or drop courses. The billing system will credit all students for courses dropped during this period of time.

Course Registration System

- Change schedule
- Register for course
- access on-line system
- course catalogue
- indicate courses to teach
- Select courses
- view student signup for courses to teach
- alternative choices
- filled
- canceled
- allow students to select courses
- credit students
- add and drop course
- let students to login

Actors: Student, profesor, Online Regitration, billing system

«include»