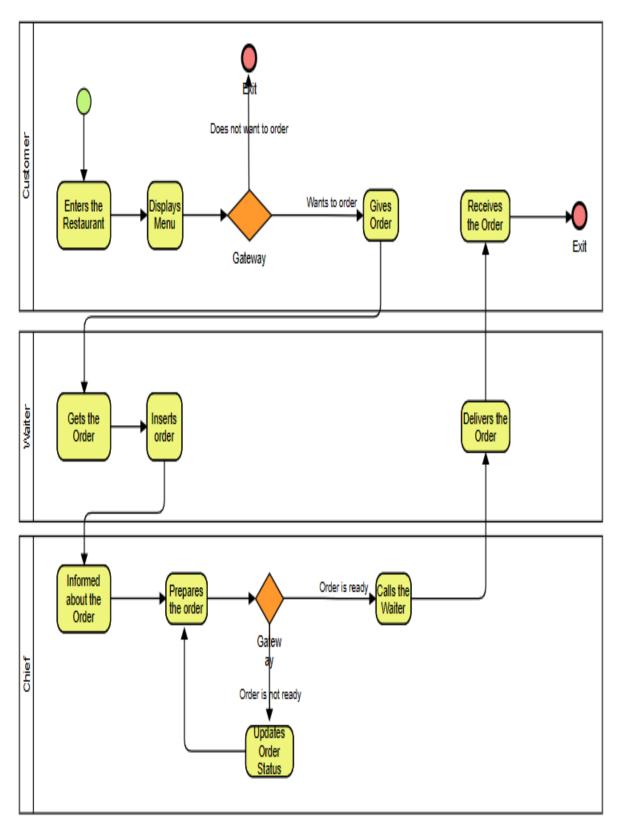
SYSTEM MODEL

1) Process Models



2) Use Case Diagrams

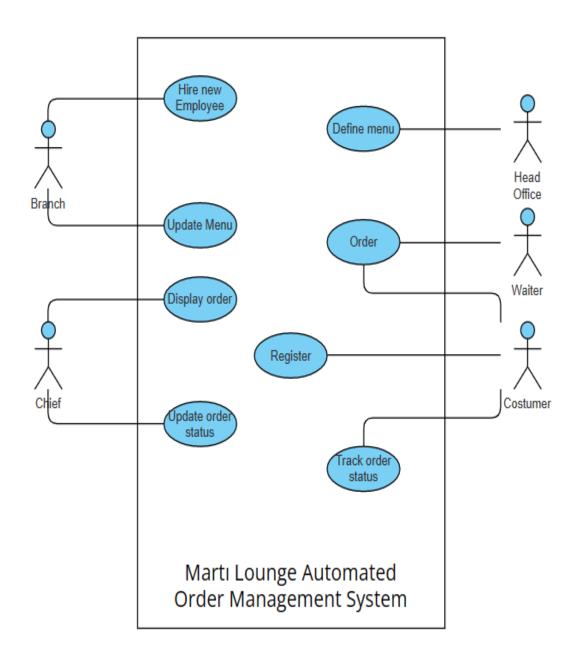
a. List of Stakeholders and Their Roles

- i. IT Staff who are responsible for development and sustainability of the system
- ii. A manager who inspects ingredients of the food, drinks, etc.
- iii. A manager who works with government to check the price of the food, drinks, etc.
- iv. Users (their roles are defined below)

b. Users, Their Roles, and Requirements

- i. Customer who can give an order and track the status of the order.
 - 1. Customer shall register to the system.
 - 2. Customer shall give an order.
 - Customer shall track the order status.
- ii. Chief who manages the kitchen, its staff and order.
 - 1. Chief shall update the status of the order.
 - 2. Chief shall display the order.
- iii. Waiter who gets order from the customer.
 - 1. Waiter shall get order from the customer.
 - 2. Waiter shall add order to the system.
 - 3. Waiter shall deliver the order.
- iv. Head Office who has full authority over the system. It also menages the branches.
 - 1. Head Office shall define the menu of all branches.
- v. Branch who menages the restaurant and its staff.
 - Branch shall update the menu for own restaurant.
 - 2. Branch shall hire new employees for own restaurant.

c. Use case Diagram



d. Use case Descriptions

System	Martı Lounge Automated Order Management System
Use Case	Order
Actors	Waiter, Customer, Martı Lounge Automated Order Management System
Data	Order of the customer such as name of the food, drinks, etc.
Stimulus	When the customer calls the waiter, or customer scans the QR code; waiter, or web page request to get order.
Response	The data is inserted into the system by waiter or automatically, and it became displayable.
Comments	In this way, waiter does not have to go to kitchen to announce the customer order.

System	Martı Lounge Automated Order Management System
Use Case	Track Order Status
Actors	Customer, Marti Lounge Automated Order Management System
Data	The status of the order such as preparing, ready, etc.
Stimulus	When the customer gives the order, the system request the data which is set by chief.
Response	The data displays on the web page.
Comments	In this way, the system makes customer well-informed.

System	Martı Lounge Automated Order Management System
Use Case	Register
Actors	Customer, Martı Lounge Automated Order Management System
Data	Some information about the customer such as name, password, etc.
Stimulus	When the customer opens the system, system request to customer to register to the system.
Response	Data is sent to the system and gives some functionality to customer such as giving order, track the order status, etc.
Comments	The other user of the system except the customer must get the specific IDs and passwords according to their authorization level.

System	Martı Lounge Automated Order Management System
Use Case	Define Menu
Actors	Head Office, Martı Lounge Automated Order Management System
Data	Images, ingredients, lists, and prices of menu which is defined by head office.
Stimulus	The system requests the menu to be defined when it starts.
Response	The data is sent to the system by head office.
Comments	The menu is defined firstly when the system is started, after that the branch takes the control.

System	Martı Lounge Automated Order Management System
Use Case	Update Menu
Actors	Branch, Marti Lounge Automated Order Management System
Data	New images, new ingredients, new lists, and new prices of menu which is updated by branch.
Stimulus	The system requests new version of the menu from branch when the branch wants to make an update.
Response	The menu is updated in system with the data which is sent by branch.
Comments	After the head office defined the menu, all control over contents of the menu is taken by branch.

System	Martı Lounge Automated Order Management System
Use Case	Hire new Employee
Actors	Branch, Marti Lounge Automated Order Management System
Data	The information of the new employee such as name, password, age, etc.
Stimulus	When the branch wants to hire new employee, web page requests the information of the new employee.
Response	The data is saved to system and new account is created for the new employee.
Comments	Hiring new employee is set the duty of the branch but it can be changed to the duty of the Head Office.

System	Martı Lounge Automated Order Management System
Use Case	Display Order
Actors	Chief, Customer, Martı Lounge Automated Order Management System
Data	Order of the customer such as name of the food, drinks, etc.
Stimulus	When the new order is inserted into the system, the data is sent to the screen in the kitchen.
Response	The data is displayed on the screen.
Comments	In this way, Chief manages the preparation of food according to number of orders.

System	Martı Lounge Automated Order Management System
Use Case	Update Order Status
Actors	Chief, Customer, Martı Lounge Automated Order Management System
Data	The status of the order such as preparing, ready, etc.
Stimulus	When the status of the order changed, web page request to new status of the order.
Response	The data is updated by chief, and it became displayable on customers' page.
Comments	After each step of the preparation of order, chief updates the status of the order to make customer well-informed.

e. Challenges

It is hard to understand that the elements such as web page, web panel, screen are stakeholder for the system or not. Also, where to place some elements such as scanning QR code or opening web panel is confusing. Also, consider the allocation the staff statement is so ambiguous, the other staff which is system contains except than chief and waiter is only known by owner of the system. The way that transferring the order which is got by waiter is not well-defined. For example, there is no statement such as waiter gets the order and transfer the order to the system.

f. Changes

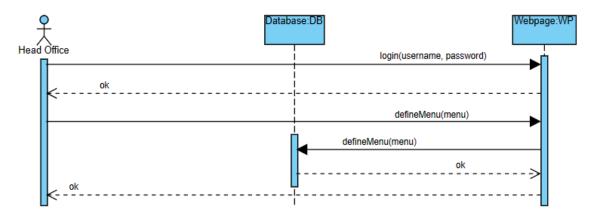
Use cases were made more generic. For example, give order by web page, give order via waiter, and get order use cases were removed, and they are all gathered as Order. Specific information about order use case is given in the use case descriptions.

Register use case was added to the use case diagram. Although it is not given in the system description, it was thought as necessary.

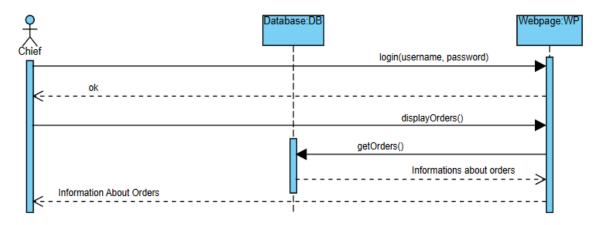
Stakeholders of the system were expanded, and requirements of the users were added according to the feedback of the previous homework.

Sequence Diagrams

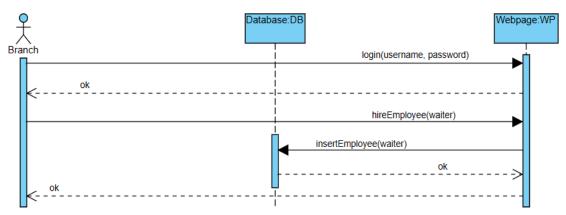
a. Define Menu



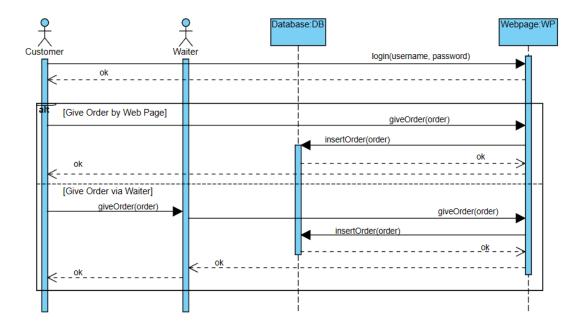
b. Display Orders



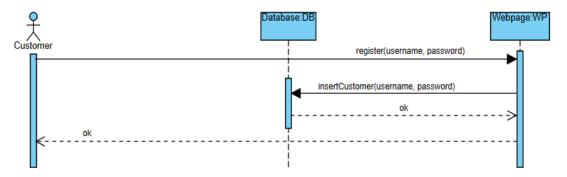
c. Hire new Employee



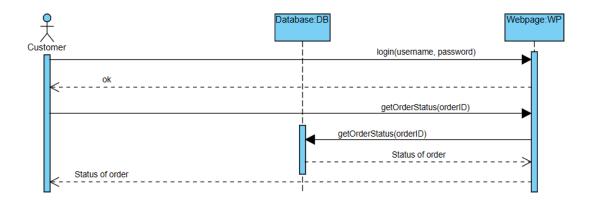
d. Order



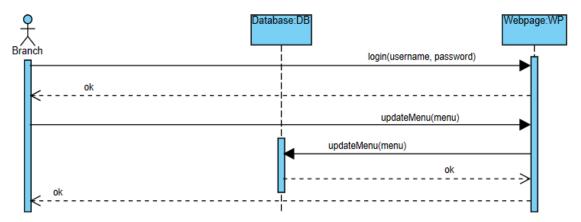
e. Register



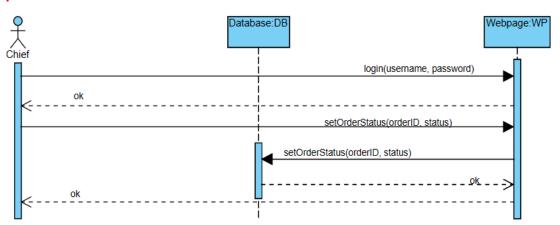
f. Track Order Status



g. Update Menu



h. Update Order Status



3) Class Diagrams

