Reserve Your Table Scenario

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The ***Reserve Your Table*** application has 2 sides to it. We have the user or customer side where the customer is able to search for a restaurant, reserve a table at a time of their choosing, and be able to order and pay all from this application. We also have the restaurant side application where the restaurant employees will be able to login into the application and be able to process and manage their customers information for reservations as well as update their restaurants information.

Before discussing the implementations of the new restaurant facing features though, we would like to make changes to our existing customer facing application as mentioned by our TA during the first scenario coding demonstration. We are currently working on connecting our application with a database to store login information and other selections that the user makes. This database could also be used on the restaurant facing application to store restaurant login information and possibly menu items or other information.

Along with the database, it was suggested that we focus on one restaurant or restaurant chain to select from to test the reserve and order functionality by the user in our prototype. So basically, we would decide on a restaurant to test, then we would incorporate an API for the restaurant where after the restaurant is selected by the user, the menu would be pulled from their website. That would allow users to select real items from the restaurant's menu to complete their order and pay. Implementing these changes to the user facing application would make our prototype more realistically functional, as the TA suggested.

Now discussing the new implementations we would make for the restaurant facing application, the restaurant would first start by the owner registering their restaurant to the application's database. The owner will add relevant information about their restaurant such as the address of the restaurant, the restaurant's menu, their hours and how many available seats they have.

The system will accept some actions from the user such as LOGIN, UPDATE, MANAGE, CONFIRM.

The LOGIN action will allow a staff member to sign into the system using the restaurants username and password they used when registering their restaurant. The system will give them a confirmation message saying they have successfully logged in.

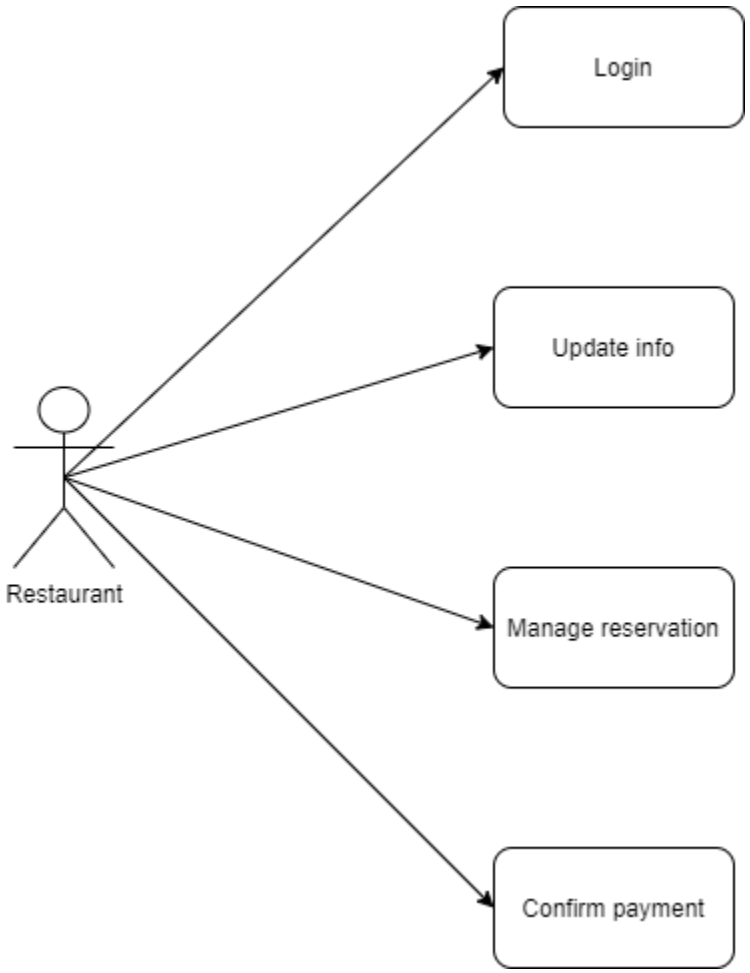
The UPDATE action will allow the staff members to go back to be able to make changes to their restaurant information such as updated menus, time availability, available seats, etc.

The MANAGE action will allow the staff member to receive notifications about people's reservation details and be able to add the reservation to the system. Should also be able to handle

walk-in reservations by manually entering the reservation details from the customer on a calendar and entering it into the system.

The CONFIRM action will allow the staff member to receive a notification from the customer's payment information and allow the restaurant to confirm the payment.

So, the login and update actions could be freely done by the restaurant employees at any time, but the manage reservation and confirm payment actions would depend on a specific instance of a customer completing a reservation and transaction.



This diagram includes most of the components of the program from the restaurant's perspective. The "manage reservation" and "confirm payment" actions would be directly linked to current user actions though, as mentioned above. The restaurant and user applications would both end up working hand in hand.