

ReserveWell	v1.4
Use Case UC2: Make Reservation	Date: 23.12.23

Version History Table

Version	Date	Description
v1.0	4.11.2023	-
v1.1	8.11.2023	The use case name is changed to "Make Reservation" instead of "Making Reservation"
v1.2	25.11.2023	It is decided that reservation confirmation notification will be sent via toast message instead of e-mail or phone number. Accordingly, the sections are updated.
v1.3	2.12.2023	<ul style="list-style-type: none"> MSS is revised according to realized application. 1b extension is revised in a way that it includes account creation confirmation. Special requirements part is removed since there is no special requirement for this use case.
v1.4	23.12.2023	<ul style="list-style-type: none"> Use case writing style is changed in a way that user intention was included.

Use Case UC2: Make Reservation

Scope: ReserveWell Application

Level: user goal

Primary Actor: Diner

Stakeholders and Interests:

- Diner: Wants to make a reservation at the restaurant efficiently and conveniently.
- Restaurant Manager: Needs to manage reservations effectively and ensure a smooth dining experience.
- System Administrator: Responsible for maintaining and monitoring the reservation system.
- Payment Authorization Service: Responsible for connect to the bank's system
- Development Team: Wants the customer to make the restaurant reservation correctly. Need to ensure system's stability, scalability, security, and adherence to best practices.

Preconditions:

- The reservation system is operational.
- The diner has a stable internet connection.

Success Guarantee (or Postconditions):

- The diner has successfully completed a reservation.
- The reservation information, including the restaurant location, date, time, and the number of guests, is stored in the restaurant's reservation system.
- A unique reservation ID is generated and associated with the diner's reservation.
- The reservation system is updated with the new reservation, making the reserved table or dining area unavailable to other diners during the specified date and time.

Main Success Scenario (or Basic Flow):

1. Diner visits the website.
2. Diner picks a restaurant from the interface.
3. Diner chooses the number of people, date and time slot which is not greyed out for the reservation.
4. Diner enters his/her personal information.
5. Diner finalize making reservation.
6. System shows reservation summary.
7. System records the reservation for the selected restaurant.
8. Diner receives a confirmation via toast message for the reservation.

Extensions (or Alternative Flows):

*a. At any time, System fails:

1. Diner restarts System, and requests recovery of prior state.
2. System reconstructs prior state
 - 2a. System detects anomalies preventing recovery:
 1. System signals error to the Diner, records the error, and enters a clean state.
 2. Diner starts to make a new reservation.

1a. Diner has membership:

1. The diner logs in his/her membership information and password.
 - 1a. Diner entered incorrect information.
 1. System notifies the dinner and re-directs to the login screen.
 2. Diner enter the information again.

The diner repeats steps 1-2 until he/she is verified.

1b. Diner wants to create an account:

1. Diner enters the web site.
2. Diner wants to register.
3. Diner enters his/her registration details.
4. Diner completes the registration.
5. System shows message about completion of registration.
6. System redirects the diner to the main screen.

3b. Diner wants to reserve more than maximum group size for the selected restaurant. (additional charges apply):

1. System shows payment details on the screen.
2. System directs the diner to the payment screen.
3. Diner enters his/her credit card details including card number, expiration date, and CVV.
4. The system securely sends the entered credit card information to the bank for payment processing.

5. The system redirects the diner to the screen where she/he will enter the confirmation code.
6. The bank processes the payment and sends confirmation code to the diner.
7. Diner enter the confirmation code.

3c. Diner wants to make a reservation at a restaurant where an event will be held:

1. System shows payment details on the screen.
2. System directs the diner to the payment screen.
3. Diner enters his/her credit card details including card number, expiration date, and CVV.
4. The system securely sends the entered credit card information to the bank for payment processing.
5. The system directs the diner to the screen where she/will will enter the confirmation code.
6. The bank processes the payment and sends confirmation code to the diner.
7. Diner enter the confirmation code

5a. The e-mail which is entered by the diner cannot be verified.

1. The diner enters his/her e-mail again.
2. The system verifies the diner's e-mail.

The diner repeats step 1 until he/she is verified.

3-6a. Diner Cancels Reservation

1. The system cancels the reservation for the selected restaurant.
2. Diner exits from the web site.

3-4b. Diner Modifies Reservation:

1. Diner updates reservation information.
2. The system updates the reservation details for the selected restaurant accordingly.

Frequency of Occurrence: Could be nearly continuous.

Open Issues

- Determine customization is needed for different restaurant types such as for cafes, fine dining and breakfast.
- Determine how will the restaurants be ordered on the main page (near location, alphabetical order, etc)
- Determine which languages will be supported by the ReserveWell.
- Determine will there be any advantage for the diners who have membership.