# **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.

## **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 which is not greyed out for the reservation.
- 4. Diner enters his/her name and surname.
- 5. Diner enters his/her e-mail and phone number.
- 6. Diner clicks the button to confirm the reservation and his/her information.
- 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 his/her name and surname.
  - 2. Diner enters the password he/she wants to use.
  - 3. Diner enters his/her phone number.
  - 4. Diner enters his/her e-mail.
  - 5. 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.

## 3-5a. Diner Cancels Reservation

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

#### 3-5b. Diner Modifies Reservation:

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

# **Special Requirements:**

- The system must ensure data security and protect diner's personal information.
- The system should allow diners to view and manage their reservations after the reservation process is complete.
- No login or account creation is required for diners to make a reservation.

### **Technology and Data Variations List:**

- 1. The web site is supported by all browsers.
- 2.Restaurant information are displayed on the screen.
- 3a-3b. System can successfully connects to the bank's system.
- 5-5a. The application has e-mail authentication ability.
- 7. Database is maintaned for reservation records, including reservation IDs, diner details, restaurant details, date, time, and party size.
- 8. Reservation notification can be sent via toast message.

### Frequency of Occurrence: Could be nearly continuous.

## **Open Issues:**

- Explore the remote service recovery issue.
- 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.