**UseCase1: Making a Reservation**

***Version History Table***

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| Version | Date | Description |
| v1.0 | 25.10.2023 | - |
| v1.1 | 16/12/2023 | New tests are added for new use cases. |

**Use Case: Make Reservation**

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| Test Case ID | Test Case Name | Description | Pre-conditions | Post-conditions | Data required |
| TC1-1 | Diner can make a reservation for a single person | Ensure that the system allows a diner to make a reservation for a single person. | - The reservation system is operational. - The diner has a stable internet connection. - The diner has selected a restaurant. | - The diner has successfully completed a reservation for a single person. - The reservation information, including the restaurant location, date, time, and the number of guests (1), is stored in the restaurant's reservation system. - A unique reservation ID is generated and associated with the diner's reservation. - The diner receives confirmation, sent to their email or phone number, with the reservation details. - 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. | Restaurant information, diner information (name, email, or phone number), reservation details (date, time, number of guests) |
| TC1-2 | Diner can make a reservation for multiple people | Ensure that the system allows a diner to make a reservation for multiple people. | - The reservation system is operational. - The diner has a stable internet connection. - The diner has selected a restaurant. - The diner has entered the number of guests (2 or more). | - The diner has successfully completed a reservation for multiple people. - 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 diner receives confirmation, sent to their email or phone number, with the reservation details. - 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. | Restaurant information, diner information (name, email or phone number), reservation details (date, time, number of guests) |
| TC1-3 | Diner can make a reservation for a restaurant with a group size exceeding the maximum | Ensure that the system allows a diner to make a reservation for a restaurant with a group size exceeding the maximum. | - The reservation system is operational. - The diner has a stable internet connection. - The diner has selected a restaurant with a maximum group size. - The diner has entered the number of guests (exceeding the maximum group size). | - The diner has successfully completed a reservation for a restaurant with a group size exceeding the maximum, with additional charges. - The reservation information, including the restaurant location, date, time, the number of guests stored in the restaurant's reservation system. | reservation details (date, time, number of guests) |
| TC1-4 | System can handle incorrect diner information | Ensure that the system can handle incorrect diner information and prompt the diner to correct it. | - The diner enters incorrect information during the reservation process. - The reservation system detects the incorrect information. | - The system prompts the diner to correct the incorrect information. - The diner can successfully update their information and complete the reservation process. | Diner information (name, email or phone number), reservation details (date, time, number of guests) |

**Use Case: Register as a Diner**

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| Test Case ID - Test Case Name | Description | Pre-conditions | Post-conditions | Data required |
| TC-01-01 - Diner can register successfully | Verify a diner can complete the registration process. | The reservation system is operational. Diner has a stable internet connection. | Diner has a new account, confirmation email received. | Diner username, password, phone number, email address. |
| TC-01-02 - Required fields validation | Verify the system validates required fields in the registration form. | The reservation system is operational. Diner starts registration. | All required fields are highlighted, error message displayed for missing information. | Attempt to register without filling all required fields. |
| TC-01-03 - Invalid email address | Verify the system detects and rejects invalid email addresses. | The reservation system is operational. Diner starts registration. | Error message displayed indicating invalid email format. | Attempt to register with an invalid email address (e.g., missing "@", invalid domain). |
| TC-01-04 - Password complexity requirements | Verify the system enforces password complexity requirements. | The reservation system is operational. Diner starts registration. | Error message displayed indicating password does not meet complexity requirements. | Attempt to register with a password not meeting complexity criteria (e.g., too short, missing special characters). |
| TC-01-05 - Secure data transmission | Verify the system uses secure connections (SSL/TLS) for data transmission. | The reservation system is operational. Diner starts registration. | HTTPS protocol used for website connection. | N/A |

**Use Case: Register as a Restaurant Owner**

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| Test Case ID | Test Description | Pre-conditions | Post-conditions | Steps | Expected Results |
| TC-UC7-01 | Successful Registration | System operational, manager has company email and stable internet | Manager registered. | 1. Navigate to website, click "Register" | - Registration form displayed. |
| TC-UC7-02 | Password Complexity Requirements | Same as TC-UC7-01 | Registration fails, error message displayed | 1. Register with non-compliant passwords | - Passwords meeting complexity criteria accepted. |
| TC-UC7-03 | Invalid Email Address | Same as TC-UC7-01 | Registration fails, error message displayed | 1. Register with invalid email formats (missing "@", invalid domain) | - Valid email addresses accepted. |