## **Use case template**

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| ID and name | UC-1 Log In | | |
| Primary actor | Customer | Secondary actors | Application System |
| Description | Allows customers to log into the application by providing their credentials. | | |
| Trigger | Customer accesses the login page. | | |
| Preconditions | PRE- 1 Customer must have an account. | | |
| Postconditions | POST- 1 Customer is logged into the system. | | |
| Normal flow | 1. Customer accesses the login page. 2. Customer enters credentials and submits for login. 3. System validates credentials. 4. Customer is granted access to the application. | | |
| Alternative flows | 1. If credentials are invalid, the customer is prompted to try again. 2. If the customer does not have an account, they are redirected to the registration page. | | |
| Exceptions | E1- Login credentials are invalid.  E2- System error during the authentication process. | | |

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| ID and name | UC-2 Register | | |
| Primary actor | Customer | Secondary actors | Application System |
| Description | Allows customers to create an account. | | |
| Trigger | Customer accesses the register page. | | |
| Preconditions | PRE- 1 Customer must have a valid email address. | | |
| Postconditions | POST- 1 Customer has an account for the application. | | |
| Normal flow | 1. Customer accesses the register page. 2. Customer enters credentials and submits for register. 3. System validates credentials. 4. Customer is granted access to the application. | | |
| Alternative flows | If credentials are invalid, the customer is prompted to try again. | | |
| Exceptions | E1- Register credentials are invalid.  E2- System error during register. | | |

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| ID and name | UC-3 Place an Order | | |
| Primary actor | Customer | Secondary actors | Bakery Staff, Inventory System |
| Description | Enables logged-in customers to select cakes, add them to a cart, and submit an order. Inventory is checked in real-time, and the order is processed if stock is sufficient. | | |
| Trigger | Customer decides to place an order. | | |
| Preconditions | PRE-1: Customer must be logged in. | | |
| Postconditions | POST-1 Order is confirmed and stored in the system.  POST-2 Inventory is updated to reflect the new stock levels.  POST-3 Other customers viewing the inventory see updated stock levels. | | |
| Normal flow | 1. Customer navigates to the order page. 2. Customer selects cakes and adds them to the cart. 3. Customer reviews the cart and presses the submit button. 4. System checks inventory availability. 5. If inventory is sufficient, the system processes the order, updates the inventory, and confirms the order to the customer. 6. The inventory visible to other customers is updated. | | |
| Alternative flows | 1. **Insufficient Stock**  1.1. If the selected quantity exceeds inventory availability, the system displays an error message: "Insufficient stock available for your order. Please adjust the quantities."  1.2. The order is not completed, and the customer is prompted to modify their order based on available stock. | | |
| Exceptions | inventory system fails to update | | |

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| ID and name | UC-4 Update inventory | | |
| Primary actor | Authorized Staff | Secondary actors | Inventory System |
| Description | Allows authorized staff or managers to log into a special interface to update the stock levels of cakes. | | |
| Trigger | Staff decides to update the inventory. | | |
| Preconditions | PRE-1: User must be authorized and logged in as staff or manager. | | |
| Postconditions | POST-1 Inventory is updated. | | |
| Normal flow | 1. Staff logs into the system with elevated privileges. 2. Staff accesses the inventory update interface. 3. Staff modifies stock levels and submits changes. 4. Inventory system updates accordingly. | | |
| Alternative flows | If a customer attempts to log in and fails multiple times, their account will be temporarily locked to prevent unauthorized access. The customer will be informed to contact support for account unlocking. | | |
| Exceptions | E1- Unauthorized access attempt.  E2- Error in updating the inventory system. | | |