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| **Brief Description** | Establish whether a customer’s login identity is valid | |
| **Actor(s)** | User | |
| **Main success scenarios** | | |
| **Basic Flow** | | |
| This use case starts when a system user is not logged in to the system and opens the login page.   1. The system prompts the use for a login email and password into text boxes. 2. The user provides their email and password. 3. System calls to the database. 4. System checks the details exist and are correct and calls back to the customer’s device. 5. The user is signed in and returned to the home page as a Logged In User. | | |
| **Alternate Flows**: | | |
| **Title** | | **Description** |
| User Fails Authentication | | If the user entered and invalid email and/or password, the system would respond with the following:   * 1. A message by the system will describe why the user authentication failed.   2. A prompt will display that requests the customer to check the text boxes are filled appropriately and if they have the login details.   3. The use case can restart at Basic Flow step 2.   After 5 consecutive attempts of failing user authentication the system would respond with the following:   1. The system would lock the page from changing for 10 seconds. 2. The request to the database will stop. 3. A message by the system will display to indicate the system lock and will ask the person to input again with valid credentials. 4. The use case can restart at Basic Flow step 2. |
| **Pre-Conditions** | | |
| **Title** | | **Description** |
| (none) | |  |
| **Post-Conditions** | | |
| **Title** | | **Description** |
| Success | | The User is authenticated, and the system displays a home page based on the user type |
| Fail | | User is unable to log in for one or more reasons. |

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| **Brief Description** | A user places an order | |
| **Actor(s)** | User | |
| **Main success scenarios** | | |
| **Basic Flow** | | |
| This use case starts when a system user is logged in and wishes to make an order of a specific product.   1. The system adds product to a basket when user wishes to buy the product. 2. User goes to checkout and makes a secure payment. 3. System verifies whether the user payment method is able to cover the total basket cost. 4. System displays message for the user confirming payment has been made successfully. | | |
| **Alternate Flows**: | | |
| **Title** | | **Description** |
| Out of Stock Product | | If the user attempts to add a product that isn’t in the systems inventory, the system will respond as the following:   1. Locks the button to add product to system basket. 2. System displays message informing user of product being out of stock. 3. The use case restarts at Basic Flow step 1. |
| Invalid Payment Method | | If the system finds the user payment method to be invalid (i.e. not able to make full basket payment), the system will respond with the following:   1. System displays message informing user of payment error. 2. The use case restarts at Basic Flow step 3.   If the user makes 5 consecutive invalid attempts, the system will respond with the following:   1. Locks user from selecting any payment options 30 seconds. 2. System displays a message prompting the payment option lock. 3. The use case restarts at Basic Flow step 3. |
| **Pre-Conditions** | | |
| **Title** | | **Description** |
| Login Authentication | | The user is required to be logged in to make an order. |
| **Post-Conditions** | | |
| **Title** | | **Description** |
| Process order | | Order sent to an employee to manage order progress and system changes stock system inventory. |
| Order cancelled | | System removes all from basket if the user logs out or the user is idle on the system for longer than 15 minutes. |

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| **Brief Description** | A user browses products | |
| **Actor(s)** | User | |
| **Main success scenarios** | | |
| **Basic Flow** | | |
| This use case starts when a system user is logged in and wishes to search various products.   1. System provides user with a search box. 2. User inputs desired product type. The system gives user suggestions through a dropdown box based on the user search text. 3. User finishes by submitting the full system request to the stock system inventory. 4. System provides all products in the system inventory that include the user search text. | | |
| **Alternate Flows**: | | |
| **Title** | | **Description** |
| Filter | | After Basic Flow step 4, the system displays additional options for the user to refine their search. The use case restarts at Basic Flow step 3 using the refined search information. |
| Invalid Special Characters | | If the user tries to search including invalid characters (such as $, “, @, {}), the system will stop the user request then display a message prompting to not include these invalid characters. The use case restarts at Basic Flow step 2. |
| **Pre-Conditions** | | |
| **Title** | | **Description** |
| (none) | |  |
| **Post-Conditions** | | |
| **Title** | | **Description** |
| Success | | System successfully provides all product options with the search terms. |
| No results | | System prompts user it was unable to find any product with the search terms. |

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| **Brief Description** | Add stock to system inventory | |
| **Actor(s)** | Employee | |
| **Main success scenarios** | | |
| **Basic Flow** | | |
| This use case starts when a system employee is required to add product stock to the stock system inventory.   1. Systems gives employee the current stock of a specific product. 2. Employee changes the product stock with respect to the quantity needing to be stored in the stock system inventory. 3. System updates inventory with changes given by employee. 4. System displays a message saying change was successful. | | |
| **Alternate Flows**: | | |
| **Title** | | **Description** |
| Stock full | | If the employee makes the request in Basic Flow step 2 and the resulting total product quantity is above the product capacity, the system will:   1. Throw an error and inform the employee and administrator of the stock being over capacity. 2. The use case will restart at Basic Flow step 2. |
| Invalid Special Characters | | If the employee tries to include invalid characters (such as $, “, @, {}), the system will:   1. stop the employee request. 2. display a message prompting to not include these invalid characters. 3. The use case restarts at Basic Flow step 2. |
| **Pre-Conditions** | | |
| **Title** | | **Description** |
| Login Authentication | | The employee is required to be logged in to the backend system to follow the use case. |
| **Post-Conditions** | | |
| **Title** | | **Description** |
| Success | | Basic Flow step 4 finishes successfully |
| Fail | | Employee unable to find product. |

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| **Brief Description** | Allocate employee permissions | |
| **Actor(s)** | Administrator | |
| **Main success scenarios** | | |
| **Basic Flow** | | |
| This use case starts when the administrator wants to create an employee account with access to the back-end system.   1. System requests employee personal details along with the employee role. 2. Administrator inputs details and then submits to the system employee database. 3. System creates an employee account with the employee’s details. 4. System makes a default username/email address and password which is given to the administrator and the employee. 5. System displays a message for the administrator to show the account has been successfully created. | | |
| **Alternate Flows**: | | |
| **Title** | | **Description** |
| Invalid special characters | | If the administrator tries to include invalid characters (such as $, “, @, {}), the system will:   1. stop the account create request. 2. display a message prompting to not include these invalid characters.   The use case restarts at Basic Flow step 2. |
| **Pre-Conditions** | | |
| **Title** | | **Description** |
| Login Authentication | | The administrator is required to be logged in to create an employee account. |
| **Post-Conditions** | | |
| **Title** | | **Description** |
| Success | | Basic Flow step 5 is completed successfully and prompts administrator to go back to the main back-end page. |
| Fail | | System removes all the employee’s details from the form and stops the account create request if the administrator logs out or is idle on the system for longer than 15 minutes. |