**Detailed Use Case 1 (Login)**

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| --- | --- |
| **Use Case Description** | This use case describe how the user login into the system |
| **Primary Actor (s)** | Employee, Manager |
| **Pre-conditions** | User must have a user account in the system  Hash algorithm to encrypt and decrypt password |
| **Flow** | **Main Flow**   1. System provides user with an input dialog box consisting of username and password field 2. User will input the account info into the field provided and press enter 3. System runs hash algorithm on the password to get the hash input 4. System checks if hash input matches user stored hashed password. 5. System will validate the user details 6. System will allow user access   **Alternate Flow (AF1) –Invalid password or username**   1. System inform user that the password or username entered is invalid   **Alternate Flow (AF2) –Three unsuccessful login attempts**   1. System will mark the record of the account as “locked” 2. System will not allow user to login into the system |
| **Post-conditions** | 1. System will open and display user functions |
| **Business Rules** | 1. Mandatory fields must be entered |

**Detailed Use Case 2 (Create Summary Report)**

|  |  |
| --- | --- |
| **Use Case Description** | This use case creates summary report for Manager |
| **Primary Actor (s)** | Manager |
| **Pre-conditions** | Manager authorized access to access database |
| **Flow** | **Main Flow**   1. Manager gets access to database 2. Manager select information to generate report 3. Summary report generated |
| **Post-conditions** | 1. Report from database is generated |
| **Business Rules** | 1. Mandatory fields must be entered |

**Detailed Use Case 3 (View Summary Report)**

|  |  |
| --- | --- |
| **Use Case Description** | This use case describe how manager view the summary report |
| **Primary Actor (s)** | Manager |
| **Pre-conditions** | Summary report exist in the database |
| **Flow** | **Main Flow**   1. Manager click on view report tab in system 2. System will display all the various past reports created 3. Manager click on the specific report 4. System will display the details of the specific report |
| **Post-conditions** | 1. System show report to the manager for viewing |
| **Business Rules** | 1. Mandatory fields must be entered |

**Detailed Use Case 4 (Add Stock)**

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| --- | --- |
| **Use Case Description** | This use case describes how an Employee and Manager add stock into the system |
| **Primary Actor (s)** | Employee, Manager |
| **Pre-conditions** | User must first login to the system |
| **Flow** | **Main Flow :**   1. Employee or Manager will login to the system with his/her username and password 2. Employee or Manager will click on the “Add Stock” tab 3. Employee or Manager will key in the necessary information for the stock 4. System will store the information 5. System will display the added stock information 6. Use case ends   **Alternate Flow (AF1) – Invalid Entry**   1. Employee or Manager key in information with wrong format 2. System display “Invalid Value” 3. Use case ends |
| **Post-conditions** | 1. All the stocks added will be stored in the system |
| **Business Rules** | 1. Mandatory fields must be entered. |

**Detailed Use Case 5 (Remove Stock)**

|  |  |
| --- | --- |
| **Use Case Description** | This use case describes how an Employee and Manager remove stock from the system |
| **Primary Actor (s)** | Employee, Manager |
| **Pre-conditions** | User must first login to the system |
| **Flow** | **Main Flow :**   1. Employee or Manager will login to the system with his/her username and password 2. Employee or Manager will click on the “Remove Stock” tab 3. Employee or Manager will select the stock that he/she wish to remove 4. System will remove the stock 5. System will display “Selected stock have been removed” 6. Use case ends   **Alternate Flow (AF1) – Selection Exceeded**   1. Employee or Manager select more than 1 record 2. System display “You can only remove 1 stock at a time” 3. Use case ends |
| **Post-conditions** | 1. The selected stock will be removed from the system |
| **Business Rules** | 1. Mandatory fields must be entered. |

**Detailed Use Case 6 (Edit Stock)**

|  |  |
| --- | --- |
| **Use Case Description** | This use case describes how an Employee and Manager edit stock from the system |
| **Primary Actor (s)** | Employee, Manager |
| **Pre-conditions** | User must first login to the system |
| **Flow** | **Main Flow :**   1. Employee or Manager will login to the system with his/her username and password 2. Employee or Manager will click on the “Edit Stock” tab 3. Employee or Manager will select the stock that he/she wish to edit 4. Employee or Manager will edit the stock information 5. System will save the changes made 6. System will display the edited stock information 7. Use case ends   **Alternate Flow (AF1) – Selection Exceeded**   1. Employee or Manager select more than 1 stock 2. System display “You can only edit 1 stock at a time” 3. Use case ends |
| **Post-conditions** | 1. The system will save the edited stock information |
| **Business Rules** | 1. Mandatory fields must be entered. |

**Detailed Use Case 7 (Display Stock)**

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| --- | --- |
| **Use Case Description** | This use case describes how an Employee and Manager display the stock/s from the system |
| **Primary Actor (s)** | Employee, Manager |
| **Pre-conditions** | User must first login to the system |
| **Flow** | **Main Flow :**   1. Employee or Manager will login to the system with his/her username and password 2. Employee or Manager will click on the “Display Stock” tab 3. Employee or Manager will select the stock that he/she wish to display 4. System will display the stock information selected 5. Use case ends   **Alternate Flow (AF1) – Selection Exceeded**   1. Employee or Manager select more than 1 stock 2. System display “You can only view 1 stock at a time” 3. Use case ends |
| **Post-conditions** | 1. The system will display the stock selected |
| **Business Rules** | 1. Mandatory fields must be entered. |

**Detailed Use Case 8 (Search Stock)**

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| --- | --- |
| **Use Case Description** | This use case describes how an Employee and Manager search the stock from the system |
| **Primary Actor (s)** | Employee, Manager |
| **Pre-conditions** | User must first login to the system |
| **Flow** | **Main Flow :**   1. Employee or Manager will login to the system with his/her username and password 2. Employee or Manager will click on the “Search Stock” tab 3. Employee or Manager will select a particular category or sub-category 4. Employee or Manager will key in the stock name or keyword 5. System will display the stock related to the keyword being searched 6. Employee or Manager will select the stock that he/she wanted 7. Use case ends   **Alternate Flow (AF1) – Stock not found**   1. Employee or Manager key in the stock name on the search bar 2. System unable to locate the stock 3. System display “No available stock found” 4. Use case ends |
| **Post-conditions** | 1. The system will display a list of stock being searched based on the keyword according to the price range and quantity in ascending or descending order |
| **Business Rules** | 1. Mandatory fields must be entered. |

**Detailed Use Case 9 (Record Stock)**

|  |  |
| --- | --- |
| **Use Case Description** | This use case describes how an Employee and Manager record the stock into the system |
| **Primary Actor (s)** | Employee, Manager |
| **Pre-conditions** | User must first login to the system |
| **Flow** | **Main Flow :**   1. Employee or Manager will login to the system with his/her username and password 2. Employee or Manager will click on the “Record Stock” tab 3. Employee or Manager will select “incoming stock” or “outgoing stock” 4. Employee or Manager will key in the stock’s detail 5. System will save the detail 6. Use case ends   **Alternate Flow (AF1) – Invalid Entry**   1. Employee or Manager key in the stock’s detail 2. System detect that the information is in wrong format 3. System display “invalid entry” 4. Use case ends |
| **Post-conditions** | 1. The system will save the detail keyed in by Employee or Manager and store them according to their respective category |
| **Business Rules** | 1. Mandatory fields must be entered. |