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| Detailed Use Case 1 | |
| UC-ID | 1.2.1.8 |
| Name | Add Stock into system for user |
| Description | Adding stock is identified as an important process as it is one of the main processes for usage in this warehouse stock management system. |
| Actor(s) | Manager |
| Main Scenario | **1.1:** User (Manager) keys in login details into system  **1.2 – 1.6.3:** System verifies if the user details match those in its userFile  a) If not matching, system displays error and prompt for user login  b) If 3 attempts used, system displays locked error message and locks user’s account  c) If matching, system logs user in and displays the menu  **1.2.1.8.1:** System decrypts the stock file  **1.2.1.8.2:** User selects Add Stock from menu  **1.2.1.8.3:** User keys in details of new Stock Item:  a) ItemID  b) ItemDesc  c) Price  d) MainCategory  e) SubCategory  f) IncomingStock  g) OutgoingStock  **1.2.1.8.4.1:** ItemID already exists, system displays error message and brings user back to main menu  **1.2.1.8.4.2:** Stock is added successfully, system displays message and brings user back to main menu  **1.2.1.8.5:** Display output to user  **1.2.1.8.6:** Encrypt the stock file |

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| Detailed Use Case 2 | |
| UC-ID | 1.2.1.6 |
| Name | Remove Stock from system for user |
| Description | Adding stock is identified as an important process as it is one of the main processes for usage in this warehouse stock management system. |
| Actor(s) | Manager |
| Main Scenario | **1.1:** User (Manager) keys in login details into system  **1.2 – 1.6.3:** System verifies if the user details match those in its database  a) If not matching, system displays error and prompt for user login  b) If 3 attempts used, system displays locked error message and locks user’s account  c) If matching, system logs user in and displays the menu  **1.2.1.6.1:** System decrypts the stockFile  **1.2.1.6.2:** User selects Remove Stock from menu  **1.2.1.6.3:** User keys in ItemID of Stock Item to remove  **1.2.1.6.4.1:** ItemID does not exist, system displays error message and brings user back to main menu  **1.2.1.6.4.2:** Stock is removed successfully  **1.2.1.6.5:** Encrypt the stockFile  **1.2.1.6.6:** Display Output |

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| Detailed Use Case 3 | |
| UC-ID | 1.2.1.7 |
| Name | Edit Stock into system for user |
| Description | Edit stock is identified as an important process as it is one of the main processes for usage in this warehouse stock management system that allows the user to edit stock info that might be otherwise wrong on keying in or updated recently outside of the system |
| Actor(s) | Manager |
| Main Scenario | **1.1:** User (Manager) keys in login details into system  **1.2 – 1.6.3:** System verifies if the user details match those in its database  a) If not matching, system displays error and prompt for user login  b) If 3 attempts used, system displays locked error message and locks user’s account  c) If matching, system logs user in and displays the menu  **1.2.1.7.1:** System decrypts stock file  **1.2.1.7.2:** User selects Edit Stock from menu  **1.2.1.7.3:** User keys in ItemID of Stock Item to edit  **1.2.1.7.4.1:** ItemID does not exist, system displays error message and brings user back to main menu  **1.2.1.7.4.2:** Stock exists, system brings user to edit stock sub-menu  **1.2.1.7.5:** User chooses which part of Stock to Edit in edit stock sub-menu:  a) ItemID  b) ItemDesc  c) Price  d) MainCategory  e) SubCategory  f) IncomingStock  g) OutgoingStock  h) TranscationID  I ) TranscationDate  **1.2.1.7.6.1:** ItemID already exists, system displays error message and brings user back to main menu  **1.2.1.7.6.2:** Stock is added successfully, system displays message and brings user back to main menu  **1.2.1.7.7:** Encrypt Stock File  **1.2.1.7.8:** Display output to user |

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| Detailed Use Case 4 | |
| UC-ID | 1.2.1.5 |
| Name | Search Stock into system for user |
| Description | Search stock is identified as an important process as it is one of the main processes for usage in this warehouse stock management system for users to navigate and find certain items inside of the system. |
| Actor(s) | Manager |
| Main Scenario | **1.1:** User (Manager) keys in login details into system  **1.2 – 1.6.3:** System verifies if the user details match those in its database  a) If not matching, system displays error and prompt for user login  b) If 3 attempts used, system displays locked error message and locks user’s account  c) If matching, system logs user in and displays the menu  **1.2.1.5.1**: System decrypts stockFile  **1.2.1.5.2:** User selects Search Stock from menu  **1.2.1.5.3:** User chooses which part of Stock to search from in the search stock sub-menu:  a) ItemID  b) ItemDesc  c) Price  d) MainCategory  e) SubCategory  f) IncomingStock  g) OutgoingStock  h) TranscationID  I ) TranscationDate  User keys information according to which option picked **(a-i)**  **1.2.1.5.4.1: If Stock does not exist**, system displays error message and brings user back to main menu  **1.2.1.5.4.2: If Stock exists**, system grabs the information from stockFile  **1.2.1.5.5:** Encrypt Stock File  **1.2.1.5.6:** Display output to user |

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| Detailed Use Case 5 | |
| UC-ID | 1.2.1.4 |
| Name | Summary Report of stock for user |
| Description | Summary Report is identified as an important process as it is one of the main processes for usage in this warehouse stock management system as it allows the user to view the overall stock details of the whole warehouse |
| Actor(s) | Manager |
| Main Scenario | **1.1:** User (Manager) keys in login details into system  **1.2 – 1.6.3:** System verifies if the user details match those in its database  a) If not matching, system displays error and prompt for user login  b) If 3 attempts used, system displays locked error message and locks user’s account  c) If matching, system logs user in and displays the menu  **1.2.1.4.1:** System decrypts stockFile  **1.2.1.4.2:** User selects Summary Report from menu  **1.2.1.4.3:** User is brought to Summary Report Menu and selects an option:   1. Daily Report 2. Weekly Report 3. Monthly Report 4. Yearly Report   **1.2.1.4.4.1:** If option is invalid, system displays error message and brings user back to main menu  **1.2.1.4.4.2:** If valid option, system displays message and brings user back to main menu  **1.2.1.4.5:** Encrypt stockFile  **1.2.1.4.6:** Display output to user |

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| Detailed Use Case | |
| UC-ID | 1.2.2.1 |
| Name | Register |
| Description | Login is identified as an important process as it is one of the main processes for usage in this warehouse stock management system as without it, any user can access the system and alter it. With this it allows a more secure platform to use |
| Actor(s) | Manager |
| Main Scenario | **1.1:** User (Manager) keys in login details into system  **1.2 – 1.6.3:** System verifies if the user details match those in its database  a) If not matching, system displays error and prompt for user login  b) If 3 attempts used, system displays locked error message and locks user’s account  c) If matching, system logs user in and displays the menu  **1.2.2.1.1:** User selects register and enters details  **1.2.2.1.2:** System decrypts userFile  **1.2.2.1.3:** System attempts to add to userFile  **1.2.2.1.4.1:** If identical record exists, display error message  **1.2.2.1.4.2:** If successful, add user into userFile  **1.2.2.1.5:** Encrypt userFile |

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| Detailed Use Case | |
| UC-ID | 1.1 |
| Name | Login |
| Description | Login is identified as an important process as it is one of the main processes for usage in this warehouse stock management system as without it, any user can access the system and alter it. With this it allows a more secure platform to use |
| Actor(s) | Manager |
| Main Scenario | **1.1:** User (Manager) keys in login details into system  **1.2:** Decrypt the userFile  **1.3:** Authentication method is called  **1.4:** Process the userFile  **1.5**: Verify that user exists  **1.6.1:** If no match found, return to login and encryptUserFile  **1.6.2:** If match success, login the user display stockMenu  **1.6.3:** If 3 failed attempts, Lock Account and encryptUserFile |