

## 7. EXTENDED USE CASES:

### ➤ Extended Use Case 1:

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| <b>Use Case Name:</b>              | Order Stock  |  |
| <b>Scope:</b>                      | Pharmacy Inventory Management System   |  |
| <b>Level:</b>                      | User Goal  |  |
| <b>Primary Actor:</b>              | 1. Manager<br>2. Vendor Order System   |  |
| <b>Stakeholders and Interests:</b> |  |  |
| <b>Preconditions:</b>              | 1. Manager must be Logged In   |  |
| <b>Postconditions:</b>             | 1. New Item Stock Ordered (Added to inventory)<br>2. Report generated for added items. |  |
| <b>Main Scenario:</b>              | <b>Actor Action</b>  | <b>System Response</b>   |
|                                    | 1. Manager selects Order Stock from Dashboard  |  |
|                                    |  | 2. System takes user to Order Stock screen.  |
|                                    | 3. Manager inputs Items to Order   |  |
|                                    |  | 4. System asks for confirmation  |
|                                    | 5. Manager confirms  |  |
|                                    |  | 6. System Sends request to Vendor Order System   |
|                                    |  | 7. Vendor Order System confirms or denies request and gives estimate of stock arrival in the |

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|                    |   | case that it is accepted (gives an error if denied)   |
|                    |   | 8. System adds the ordered Items into the inventory in case of success.                     |
|                    |   | 9. System notifies Manager of successful entries into inventory and failed entries (if any) |
| <b>Extensions:</b> | <ol style="list-style-type: none"> <li>1. Vendor Order System returns a failed order in case items are unavailable.               <ol style="list-style-type: none"> <li>a. System displays appropriate alert when no or some items are available.</li> <li>b. Manager confirms the message.</li> <li>c. If some items are available, then they are ordered otherwise Manager is requested by the System to try again later.</li> </ol> </li> </ol> |   |

➤ Extended Use Case 2:

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| <b>Use Case Name:</b>              | Restock Inventory  |  |
| <b>Scope:</b>                      | Pharmacy Inventory Management System   |  |
| <b>Level:</b>                      | User Goal  |  |
| <b>Primary Actor:</b>              | Pharmacist   |  |
| <b>Stakeholders and Interests:</b> | <ul style="list-style-type: none"> <li>- <u>Pharmacist:</u><br/>Wants to restock on medicine that is low in inventory.<br/>Wants to make sure there is always sufficient medicine delivered for sending orders.</li> <li>- <u>Manager:</u><br/>Wants to initiate request for medicine low in stock.<br/>Wants to quality check report from deliverer.</li> </ul> |  |
| <b>Preconditions:</b>              | <ol style="list-style-type: none"> <li>1. Pharmacist must be Logged In</li> <li>2. Stock is low in inventory.</li> </ol>   |  |
| <b>Postconditions:</b>             | <ol style="list-style-type: none"> <li>1. Pharmacist receives restock order.</li> <li>2. Medicine Stock is refilled.</li> </ol>  |  |
| <b>Main Scenario:</b>              | <b>Actor Action</b>  | <b>System Response</b>                             |
|                                    | 1. Pharmacist selects Restock inventory from dashboard   |  |
|                                    |  | 2. System moves user to restock inventory screen.  |
|                                    |  | 3. System displays medicine inventory and details. |
|                                    | 4. Pharmacist enters stock details.  |  |
|                                    |  | 5. System confirms stock information.              |
|                                    |  | 6. System updates inventory information            |

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| <b>Extensions:</b> | 1- System produces error as some or none of the items exist/are available.<br>a- User confirms whether he/she wants to continue with order or abort. |  |  |

➤ Extended Use Case 3:

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| <b>Use Case Name:</b>              | Alert Shortage   |   |
| <b>Scope:</b>                      | Pharmacy Inventory Management System   |   |
| <b>Level:</b>                      | User Goal  |   |
| <b>Primary Actor:</b>              | Pharmacist   |   |
| <b>Stakeholders and Interests:</b> | <ul style="list-style-type: none"> <li>- <u>Pharmacist:</u><br/>Wants to report when certain medicine and/or drugs are short in inventory.<br/>Wants to alert for inventory discrepancies.</li> <li>- <u>Manager:</u><br/>Wants to initiate restock order for medicine.</li> </ul> |   |
| <b>Preconditions:</b>              | <ol style="list-style-type: none"> <li>1. Pharmacist must be Logged In</li> <li>2. Inventory Screen must be loaded first.</li> </ol>   |   |
| <b>Postconditions:</b>             | <ol style="list-style-type: none"> <li>1. System Logs Inventory shortage report</li> <li>2. Manager receives report about low shortage.</li> </ol>   |   |
| <b>Main Scenario:</b>              | <b>Actor Action</b>  | <b>System Response</b>  |
|                                    | 1. Pharmacist accesses inventory screen  |   |
|                                    | 2. Pharmacist checks if medicine is available or existing in inventory.  |   |
|                                    |  | 3. System shows list of registered medicine that is not in inventory. |
|                                    | 4. Pharmacist checks quantities of medicine.   |   |
|                                    | 5. Pharmacist creates a report of  |   |

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|                    | medicine products with low/no quantity.  |  |
|                    | 6. Pharmacist enters Medicine information into report.   |  |
|                    |  | 7. System saves report to shortage list.                                       |
|                    |  | 8. System sends a notification to Pharmacist and Manager of medicine shortage. |
|                    | 9. Pharmacist and Manager receive notification of alert shortage.  |  |
| <b>Extensions:</b> | 1. System reports no medicine of low quantity. <ul style="list-style-type: none"> <li>a. System generates report.</li> <li>b. System displays relevant message.</li> <li>c. Report delivered to Pharmacist and Manager</li> <li>d. Pharmacist returns to dashboard.</li> </ul> |  |

➤ Extended Use Case 4:

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| <b>Use Case Name:</b>              | Manage Order  |   |
| <b>Scope:</b>                      | Pharmacy Inventory Management System  |   |
| <b>Level:</b>                      | User Goal   |   |
| <b>Primary Actor:</b>              | <ol style="list-style-type: none"> <li>1. Pharmacist</li> <li>2. Customer</li> </ol>  |   |
| <b>Stakeholders and Interests:</b> | <ul style="list-style-type: none"> <li>- <u>Pharmacist:</u><br/>Wants to review prescription request from client.<br/>Wants to create a prescription order respective to prescription request.</li> </ul> |   |
| <b>Preconditions:</b>              | <ol style="list-style-type: none"> <li>1. Pharmacist must be Logged In</li> <li>2. There must be a pending prescription request.</li> </ol>   |   |
| <b>Postconditions:</b>             | <ol style="list-style-type: none"> <li>1. Prescription order filed for client.</li> <li>2. Client receives order notification.</li> <li>3. Medicine stock deducted.</li> </ol>                            |   |
| <b>Main Scenario:</b>              | <b>Actor Action</b>   | <b>System Response</b>  |
|                                    | 1. Pharmacist selects Create Order from dashboard   |   |
|                                    |   | 2. System moves User to create order screen.                  |
|                                    | 3. Pharmacist inputs prescription details from client   |   |
|                                    |   | 4. System confirms details.                                   |
|                                    |   | 5. System generates Order ticket for respective prescription. |
|                                    |   | 6. System sends a notification to                             |

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|                    |  | Pharmacist and<br>respective Client. |
|                    | 7. Pharmacist<br>receives<br>notification of<br>generated order.   |                                      |
|                    | 8. Client receives<br>notification of<br>generated order<br>and delivery.  |                                      |
| <b>Extensions:</b> | 1. Client cancels order. <ul style="list-style-type: none"> <li>a. System relays cancel notification to Pharmacist.</li> <li>b. System cancels order and prompts user feedback.</li> <li>c. System sends feedback to feedback list.</li> <li>d. System creates report of cancelled order.</li> </ul> |                                      |



➤ Extended Use Case 5:

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| <b>Use Case Name:</b>              | Check Expiry   |   |
| <b>Scope:</b>                      | Pharmacy Inventory Management System   |   |
| <b>Level:</b>                      | User Goal  |   |
| <b>Primary Actor:</b>              | Pharmacist   |   |
| <b>Stakeholders and Interests:</b> | - <u>Pharmacist:</u><br>Wants to check quality of medicine. Wants to keep track of expiry dates of medicine.<br>Wants to deduct expired medicine from inventory. |   |
| <b>Preconditions:</b>              | 1. Pharmacist must be Logged In  |   |
| <b>Postconditions:</b>             | 1. Expired medicine removed from inventory.<br>2. Report generated for unused medicine.  |   |
| <b>Main Scenario:</b>              | <b>Actor Action</b>  | <b>System Response</b>  |
|                                    | 1. Pharmacist selects inventory menu from Dashboard  |   |
|                                    |  | 2. System takes user to Inventory screen.                                 |
|                                    | 3. Pharmacist compares dates of expiry with current date.  |   |
|                                    |  | 4. System returns medicine information of those that meet the comparison. |
|                                    | 5. Pharmacist records information of expired medicine and creates a report.  |   |

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|                    |   | 6. System records report into database                                  |
|                    | 7. Pharmacist removes expired medicine from inventory   |   |
|                    |   | 8. System gives confirmation before making changes                      |
|                    | 9. Pharmacist confirms changes.   |   |
|                    |   | 10. System deducts inventory of expired medicine and updates inventory. |
|                    | 11. User returned to Dashboard  |   |
| <b>Extensions:</b> | 1. System returns no information on comparison. <ul style="list-style-type: none"> <li>a. System displays appropriate alert when no information shows.</li> <li>b. System creates record of no alert.</li> <li>c. Pharmacist returns to dashboard.</li> </ul> |   |

➤ Extended Use Case 6:

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| <b>Use Case Name:</b>              | Generate Reports   |   |
| <b>Scope:</b>                      | Pharmacy Inventory Management System   |   |
| <b>Level:</b>                      | User Goal  |   |
| <b>Primary Actor:</b>              | Manager  |   |
| <b>Stakeholders and Interests:</b> | <ul style="list-style-type: none"> <li>- <u>Manager:</u><br/>Wants to create reports for receiving and disposing medicine.<br/>Wants to create reports of weekly, monthly, quarterly, and yearly inventory.<br/>Wants to create reports for sales and orders completed.<br/>Wants to create reports for Pharmacist performance.</li> <li>- <u>Pharmacist:</u><br/>Wants to know about performance.<br/>Wants a report for sales and orders completed.</li> </ul> |   |
| <b>Preconditions:</b>              | <ol style="list-style-type: none"> <li>1. Must be Logged in as Manager.</li> <li>2. Inventory must exist.</li> <li>3. Orders and Deliveries must have occurred.</li> </ol>   |   |
| <b>Postconditions:</b>             | <ol style="list-style-type: none"> <li>1. Manager has successfully created report for medicine, inventory and/or employee performance.</li> <li>2. A log of generated reports is maintained and viewable.</li> </ol>   |   |
| <b>Main Scenario:</b>              | <b>Actor Action</b>  | <b>System Response</b>                              |
|                                    | 1. Manager selects generate report from dashboard.   |   |
|                                    |  | 2. System moves user to the generate report screen. |
|                                    | 3. Manager requests to generate report.  |   |

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|                    |  | 4. System asks for a report type (monthly, quarterly, yearly)        |
|                    | 5. Manager selects a report type and selects generate.   |  |
|                    |  | 6. System generates report based on selection with required details. |
|                    |  | 7. System displays the report to user.                               |
|                    | 8. Manager saves and views the report.   |  |
| <b>Extensions:</b> | 1. Manager: <ul style="list-style-type: none"> <li>a. Manager enters incorrect report type.</li> <li>b. System notifies with an alert.</li> <li>c. System requests re-enter report type</li> <li>d. Manager re-enters report type</li> <li>e. System continues with generating report</li> </ul> |  |

➤ Extended Use Case 7:

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| <b>Use Case Name:</b>              | Review Feedback   |  |
| <b>Scope:</b>                      | Pharmacy Inventory Management System  |  |
| <b>Level:</b>                      | User Goal   |  |
| <b>Primary Actor:</b>              | Manager   |  |
| <b>Stakeholders and Interests:</b> | <ul style="list-style-type: none"> <li>- <u>Manager:</u><br/>Wants to view reviews and feedback from clients/customers.<br/>Wants to reply to Positive feedback.</li> </ul> |  |
| <b>Preconditions:</b>              | 1. Must be Logged in as Manager.  |  |
| <b>Postconditions:</b>             | 1. Negative Reviews are recorded and created into report.<br>2. Manager responds Positive Reviews.  |  |
| <b>Main Scenario:</b>              | <b>Actor Action</b>   | <b>System Response</b>                         |
|                                    | 1. Manager selects review feedback from dashboard.  |  |
|                                    |   | 2. System moves user to review Feedback screen |
|                                    |   | 3. System sorts of Reviews by ratings          |
|                                    | 4. Managers use automated replies for high rating reviews.  |  |
|                                    | 5. Manager assesses and builds a report for low rated reviews.  |  |
|                                    |   | 6. System updates and removes                  |

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|                    |  | Reviews that have been answered.                     |
|                    |  | 7. System creates Quality Concern Extraction report. |
|                    | 8. Manager can view reports generated by system.   |  |
|                    |  | 9. System records and saves report to database.      |
| <b>Extensions:</b> | <ol style="list-style-type: none"> <li>1. Manager skips reviews. <ol style="list-style-type: none"> <li>a. System automatically replies to feedback with automated reply.</li> <li>b. System removes review from list.</li> </ol> </li> <li>7. System reports not low rated views. <ol style="list-style-type: none"> <li>a. System alerts there are not enough reviews to generate QCE report.</li> <li>b. System pushes confirmation for creating report anyway.</li> <li>c. Manager chooses to create report</li> </ol> </li> </ol> |  |

➤ Extended Use Case 8:

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| <b>Use Case Name:</b>              | Manage Employees   |   |
| <b>Scope:</b>                      | Pharmacy Inventory Management System   |   |
| <b>Level:</b>                      | User Goal  |   |
| <b>Primary Actor:</b>              | Manager  |   |
| <b>Stakeholders and Interests:</b> | <ul style="list-style-type: none"> <li>- <u>Manager:</u><br/>Wants to create, update, or delete Pharmacist in the system.<br/>Wants to edit or update Pharmacist information after they are added.</li> <li>- <u>Pharmacist:</u><br/>Wants to see their information existing on the system.<br/>Wants to edit their personal information.</li> </ul> |   |
| <b>Preconditions:</b>              | 1. Must be Logged in as Manager.   |   |
| <b>Postconditions:</b>             | 1. Pharmacist have been added/removed to the system.<br>2. Pharmacist information has been updated/edited to the system.<br>3. Pharmacist information is viewable by respective Pharmacist.  |   |
| <b>Main Scenario:</b>              | <b>Actor Action</b>  | <b>System Response</b>                            |
|                                    | 1. Manager selects Manage employees from dashboard.  |   |
|                                    |  | 2. System moves user to Manage employee's screen. |
|                                    | 3. Manager selects to create, edit, update, or delete employees.   |   |
|                                    |  | 4. System prompts for details for the             |

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|                    |  | respective action chosen.                        |
|                    | 5. Manager enters required information into the form.  |  |
|                    |  | 6. Systems displays confirmation for submission. |
|                    |  | 7. System notifies Manager of submission made.   |
|                    |  | 8. Systems records changes made into database    |
|                    | 9. Manager returns to dashboard.   |  |
| <b>Extensions:</b> | <ol style="list-style-type: none"> <li>1. Employee created already exists. <ol style="list-style-type: none"> <li>a. System alerts that redundancy has occurred.</li> <li>b. System requests to re-enter data.</li> <li>c. Manager re-enters data</li> <li>d. System creates confirmation for new data</li> <li>e. New employee is created.</li> <li>f. New employee information added to database.</li> <li>g. Manager returned to dashboard.</li> </ol> </li> <li>2. Employee selected does not exist. <ol style="list-style-type: none"> <li>a. System alerts that employee selected no longer exist</li> <li>b. Systems requests to recheck information used.</li> <li>c. System requests to add new employee</li> </ol> </li> </ol> |  |



➤ Extended Use Case 9:

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| <b>Use Case Name:</b>              | Check Availability.   |  |
| <b>Scope:</b>                      | Pharmacy Inventory Management System  |  |
| <b>Level:</b>                      | User Goal   |  |
| <b>Primary Actor:</b>              | Salesperson   |  |
| <b>Stakeholders and Interests:</b> | - <u>Salesperson:</u><br>Wants to check availability of medicine for the customer.  |  |
| <b>Preconditions:</b>              | 1. Salesperson must be Logged In  |  |
| <b>Postconditions:</b>             | 1. Quantity of the Items is displayed.  |  |
| <b>Main Scenario:</b>              | <b>Actor Action</b>   | <b>System Response</b>   |
|                                    | 1. Salesperson selects check availability from Dashboard.   |  |
|                                    |   | 2. System takes user to Search Screen                            |
|                                    | 3. Salespersons enter the details of the Item.  |  |
|                                    |   | 4. System returns information of those that meet the comparison. |
|                                    | 5. Pharmacist records information of Out of Stock Items and creates a report.   |  |
|                                    |   | 6. System records report into database                           |
|                                    | 7. Salesperson returned to Dashboard  |  |
| <b>Extensions:</b>                 | 1. System returns no information on comparison. <ol style="list-style-type: none"> <li>System displays appropriate alert when no information shows.</li> <li>System creates record of no alert.</li> <li>Salesperson returns to dashboard.</li> </ol> |  |