4-***Inventory Analytics:***

| **Field Name** | **Description** |
| --- | --- |
| UC Name | Notifications and Alerts |
| Summary | This use case involves the system sending notifications and alerts to the inventory manager regarding important events such as low stock levels, out-of-stock items, or new orders. These notifications can be sent via email, SMS, or through the system's dashboard to ensure timely action by the manager. |
| Dependency | None (this use case does not depend on other use cases). |
| Actors | Primary Actor: Inventory Manager |
| Predictions | The system must be operational and capable of sending notifications through email, SMS, or the dashboard. |
| Preconditions | The inventory manager must be authenticated and authorized to receive notifications. |
| Description of Main Sequence | 2. When an important event occurs (e.g., low stock levels, out-of-stock items, new orders), the system generates a notification.  3. The notification is sent to the inventory manager via the selected communication channel (email, SMS, or dashboard).  4. The inventory manager receives the notification and takes appropriate action as needed. | |
| Description of Alternative Sequence | None (no alternative sequences defined for this use case). |
| Non-functional requirements | Performance: The system should deliver notifications in a timely manner to ensure prompt action by the inventory manager.  Security: Access to sensitive notifications should be restricted to authorized inventory managers only.  Reliability: The notification system should be reliable, with minimal downtime or failures in delivering notifications. |
| Postconditions | The inventory manager successfully receives and responds to notifications regarding important events. |