Use Case Description

Use Case 1

Name: Periodic Order from Supplier

Textual Description: Create an order on fixed days from a specific supplier.

List of Actors: Storekeeper

Pre-conditions:

a. There are at least one or more suppliers in our system.

b. Product IDs and quantities are chosen from the chosen supplier's agreement.

c. A day for the periodic order has been chosen (the periodic day that the order will be created every week).

Post-conditions:

a. One supplier is chosen for the order.

b. Periodic order has been created.

c. The products and their quantity have been successfully added to the order.

d. The system creates the order every week on the correct day.

e. The supplier's inventory has been updated.

f. The order history of the branch has been recorded.

g. The order history of each supplier has been recorded.

Main success scenario:

a. The storekeeper begins a new periodic order.

b. The storekeeper chooses the supplier they wish to order from.

c. The storekeeper chooses product IDs from the supplier agreement and their quantities.

d. The storekeeper chooses a periodic day for the order.

e. The storekeeper sends the order details to the system.

f. The system creates a periodic order from the chosen supplier.

g. Once the order day is reached, an order is created, and the system sends a message to the storekeeper informing them of the estimated arrival date and confirmation that the order has been created.

h. The system updates the amount ordered for each product in the order.

i. The system updates the supplier's inventory.

j. The system records the order in the branch order history.

k. The system records the order in the supplier's order history.

l. Payment is made to the supplier for the order.

Alternatives/Extensions:

a. System failure: Turning the system off and on, ensuring that all processes that have started have already been saved.

b. The storekeeper inserts an invalid supplier ID: The system sends a message to the storekeeper that no such supplier ID exists and asks them to choose a new supplier ID.

c. The storekeeper inserts product IDs that are not available for the chosen supplier: The system sends a message to the storekeeper that the product IDs are not available for this supplier and asks them to choose new IDs.

d. The storekeeper inserts duplicate product IDs to the order: The system sends a message to the storekeeper that there are duplicate product IDs in the order and asks them to choose new IDs.

e. The storekeeper inserts a negative value for product quantities: The system sends a message to the storekeeper that there are incorrect quantity values.

f. One or more products are no longer provided by the chosen supplier for the periodic order: The order will be created the next week without those products.

g. One or more products are currently out of stock from the chosen supplier for the periodic order: The order will be created the current week without those products.

Use Case 2

Name: Order from Supplier Due to Shortage

Textual Description: Create an order from the supplier due to a shortage of one or more products in the branch to replenish the stock.

List of Actors: Storekeeper

Pre-conditions:

a. The storekeeper executes a daily verify shortage and gets a popup alert about products that go below the minimum quantity.

b. The system creates an order that contains enough products to cover the minimum amount of each product in the order.

c. There are at least one or more suppliers in the system.

d. The suppliers (as a group of suppliers) have enough inventory to cover the shortages received in the order for each product.

Post-conditions:

a. The chosen suppliers are those able to supply the products in the shortest time.

b. One or more orders have been created.

c. The products and their quantities that the storekeeper ordered have been successfully added to the orders.

d. The suppliers' inventory has been updated.

e. The order history of the branch has been recorded.

f. The order history of each supplier has been recorded.

Main success scenario:

a. The storekeeper updates the inventory and gets a popup alert about products that go below the minimum quantity.

b. The system begins a new shortage order.

c. The system adds the product IDs and the quantity of each product that goes below the minimum.

d. The system searches for a supplier that offers all products with the fastest delivery time. If there isn't one, the system searches for multiple suppliers that can offer all products with the fastest delivery time.

e. The system creates an order from the chosen suppliers.

f. The system updates the amount ordered for each product in the order.

g. The system updates the suppliers' inventory.

h. The system records the order in the branch order history.

i. The system records the order in the suppliers' order history.

j. Once the order has been created, the system sends a message to the storekeeper informing them of the estimated arrival date and confirmation that the order has been created.

k. Payment is made to the suppliers.

Alternatives/Extensions:

a. System failure: Turning the system off and on, ensuring that all processes that have started have already been saved.

b. No supplier or multiple suppliers (as a group of suppliers) have enough inventory to cover the shortages received in the order for each product: The system will send a response that the order can't be created.

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| **Module** | **Functional / Non-Functional** | **Description** | **Priority** | **Risk** | **Status** |  |
| Supplier Module | Functional | על המערכת לפתוח לכל ספק כרטיס עסק | MH | Low | Pending |  |
| Supplier Module | Functional | על המערכת לשמור את שמות אנשי הקשר ופרטי ההתקשרות איתם | MH | Low | Pending |  |
| Supplier Module | Functional | המערכת צריכה לתקשר עם הספק ולהגדיר לספק ימי אספקה קבועים או לא, את פרטי הפריטים שכלולים בהסכם, לרבות מהו המחיר לכל פריט | MH | Low | Pending |  |
| Supplier Module | Functional | על המערכת לספק (לפעמים) "כתב כמויות" אשר מגדיר לכל פריט מהי ההנחה שתינתן לפריט בעת רכישות בהיקף גדול. | NTH | Low | Pending |  |
| Supplier Module | Functional | על המערכת לשמור את הפריטים שהיא רוכשת מכל ספק, את המספר הקטלוגי של הספק לכל פריט. זאת לטובת הפקת הזמנות מספקים והתממשקות מול המערכות שלהם. | MH | High | לא ניתן לממש כי אין לנו מידע על המערכות שלהם |  |
| Supplier Module | Functional | המערכת צריכה להודיע לספק הרלוונטי (שמגיע כשקוראים לו) כשמגיעה הזמנה | MH | Low | Pending |  |
| Supplier Module | Functional | המערכת צריכה לשמור את היסטוריית ההזמנות | MH | Low | Pending |  |
| Supplier Module | Functional | המערכת צריכה לתאם עם ספק (שמגיע בימים קבועים) שיגיע לקחת הזמנה | MH | Low | Pending |  |
| Supplier Module | Non-Functional | בכל רגע נתון המערכת צריכה להצליח להתמודד עם 100 משתמשים | MH | High | לא ניתן לממש כי אין לנו משתמשים |  |
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| **נושא** | **שאלה** | **תשובה** |  |
| תקשורת עם הספק | איך להודיע ספק (שלא מגיע בימים קבועים) שהגיעה הזמנה? | שולחים סמס לטלפון של האיש קשר |  |
| זמני הגעת הספקים | האם הספקים שמגיעים בימים קבועים מגיעים תמיד בימים הקבועים? | לא, צריך לתאם |  |
| שמירת מידע | האם יש לשמור את היסטוריית ההזמנות? | כן |  |
| סקלאביליות | כמה משתמשים יכולים להיות בו זמנית במערכת? | 100 |  |
| זמני הגעת הספקים | האם יכול להיות ספק שיש לו גם ימים קבועים וגם יכול להגיע בלי קשר? | לא |  |
| תקשורת עם הספק | האם חייב להיות איש קשר לספק? | כן |  |
| בעלות על פריטים | האם לפריט יכול להיות יותר מספק אחד? | כן |  |
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A screenshot of a computer

Description automatically generated