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| **Use Case Name** | Customer Creation |
| **Use Case ID** | UC-001 |
| **Actor** | Sales Representative |
| **Pre-Condition** | The Sales Representative is logged into the ERPNext system. |
| **Post-Condition** | Customer details are saved and submitted in the system. |
| **Basic Flow** | 1. Sales Representative navigates to CRM > Customer > New.    * **System Response:** Displays the Customer creation form. 2. Sales Representative enters customer name.    * **System Response:** Validates the name. 3. Sales Representative enters contact details (phone, email).    * **System Response:** Validates the contact details. 4. Sales Representative enters the address (street, city, state, zip code).    * **System Response:** Validates the address. 5. Sales Representative clicks "Save."    * **System Response:** Saves the customer details but does not submit them. 6. Sales Representative clicks "Submit."    * **System Response:** Submits the customer details, finalizing the creation process. |
| **Alternate Flow** | * If the entered information is invalid at any step (Step 2, 3, or 4), the system displays an error message with details on what needs to be corrected. * Sales Representative corrects the invalid information and proceeds with the next steps. |

Use Case Name: Customer Creation

Use Case ID: UC001

Actor: Sales Representative

Pre-condition: The Sales Representative is logged into the ERPNext system.

Post-condition: Customer details are saved and submitted in the system.

Basic Flow:

1. Sales Representative navigates to CRM > Customer > New.

- System Response: Displays the Customer creation form.

2. Sales Representative enters customer name.

- System Response: Validates the name.

3. Sales Representative enters contact details (phone, email).

- System Response: Validates the contact details.

4. Sales Representative enters the address (street, city, state, zip code).

- System Response: Validates the address.

5. Sales Representative clicks "Save."

- System Response: Saves the customer details but does not submit them.

6. Sales Representative clicks "Submit."

- System Response: Submits the customer details, finalizing the creation process.

Alternate Flow:

- If the entered information is invalid at any step, the system displays an error message with details on what needs to be corrected.

- Sales Representative corrects the invalid information and proceeds with the next steps.

2. Sales Order Creation

Use Case Name: Sales Order Creation

Use Case ID: UC002

Actor: Sales Representative

Pre-condition: The Sales Representative is logged into the ERPNext system.

Post-condition: Sales order is created and submitted in the system.

Basic Flow:

1. Sales Representative navigates to Selling > Sales Order > New.

- System Response: Displays the Sales Order creation form.

2. Sales Representative selects the customer from a dropdown list.

- System Response: Populates customer details in the form.

3. Sales Representative enters the order date.

- System Response: Validates the date format.

4. Sales Representative adds items by clicking "Add Row."

- System Response: Displays fields for product, quantity, and price.

5. Sales Representative selects the product from a list.

- System Response: Displays product details.

6. Sales Representative enters the quantity and price.

- System Response: Calculates the total price for the item.

7. Sales Representative repeats steps 4-6 for all items in the order.

- System Response: Updates the total order amount.

8. Sales Representative clicks "Save."

- System Response: Saves the sales order but does not submit it.

9. Sales Representative clicks "Submit."

- System Response: Submits the sales order, finalizing the creation process.

Alternate Flow:

- If any information is invalid, the system displays an error message with details on what needs to be corrected.

- Sales Representative corrects the invalid information and proceeds with the next steps.

3. Material Availability Check

Use Case Name: Material Availability Check

Use Case ID: UC003

Actor: Inventory Manager

Pre-condition: The Inventory Manager is logged into the ERPNext system.

Post-condition: Material availability is checked in the system.

Basic Flow:

1. Inventory Manager navigates to Stock > Stock Ledger.

- System Response: Displays the stock ledger with current stock levels.

2. Inventory Manager searches for specific materials by entering their names or codes.

- System Response: Filters and displays the stock levels of the specified materials.

3. Inventory Manager reviews the stock levels to ensure sufficient quantities are available.

- System Response: Highlights any materials with low stock levels.

4. If necessary, Inventory Manager clicks on a material to view detailed information (e.g., location, batch number).

- System Response: Displays detailed information for the selected material.

Alternate Flow:

- If stock levels are insufficient, the Inventory Manager can create a purchase order for additional materials by navigating to Buying > Purchase Order > New and following the steps in UC007.

4. BOM Creation and Material Calculation

Use Case Name: BOM Creation and Material Calculation

Use Case ID: UC004

Actor: Production Planner

Pre-condition: The Production Planner is logged into the ERPNext system.

Post-condition: BOM is created and submitted in the system.

Basic Flow:

1. Production Planner navigates to Manufacturing > Bill of Materials > New.

- System Response: Displays the BOM creation form.

2. Production Planner enters the BOM name and selects the product.

- System Response: Displays fields for entering item details.

3. Production Planner clicks "Add Row" to add items to the BOM.

- System Response: Displays fields for item code, quantity, and unit of measure.

4. Production Planner enters item code, quantity, and unit of measure.

- System Response: Validates the entered information.

5. Production Planner repeats steps 3-4 for all items in the BOM.

- System Response: Calculates the total material requirements for the BOM.

6. Production Planner clicks "Save."

- System Response: Saves the BOM but does not submit it.

7. Production Planner clicks "Submit."

- System Response: Submits the BOM, finalizing the creation process.

Alternate Flow:

- If the entered information is invalid at any step, the system displays an error message with details on what needs to be corrected.

- Production Planner corrects the invalid information and proceeds with the next steps.

5. Cost Calculation and Recording

Use Case Name: Cost Calculation and Recording

Use Case ID: UC005

Actor: Accountant

Pre-condition: The Accountant is logged into the ERPNext system.

Post-condition: Costs are recorded in the system.

Basic Flow:

1. Accountant navigates to Accounting > Cost Centers.

- System Response: Displays the cost center management screen.

2. Accountant selects the relevant cost center.

- System Response: Displays the details of the selected cost center.

3. Accountant clicks "Add Row" to add cost details.

- System Response: Displays fields for entering cost description, amount, and date.

4. Accountant enters the cost description, amount, and date.

- System Response: Validates the entered information.

5. Accountant clicks "Save."

- System Response: Saves the cost details in the system.

Alternate Flow:

- If the entered information is invalid, the system displays an error message with details on what needs to be corrected.

- Accountant corrects the invalid information and proceeds with the next steps.

6. Vendor Creation

Use Case Name: Vendor Creation

Use Case ID: UC006

Actor: Procurement Officer

Pre-condition: The Procurement Officer is logged into the ERPNext system.

Post-condition: Vendor details are saved and submitted in the system.

Basic Flow:

1. Procurement Officer navigates to Buying > Supplier > New.

- System Response: Displays the Supplier creation form.

2. Procurement Officer enters supplier name.

- System Response: Validates the name.

3. Procurement Officer enters contact details (phone, email).

- System Response: Validates the contact details.

4. Procurement Officer enters the address (street, city, state, zip code).

- System Response: Validates the address.

5. Procurement Officer clicks "Save."

- System Response: Saves the supplier details but does not submit them.

6. Procurement Officer clicks "Submit."

- System Response: Submits the supplier details, finalizing the creation process.

Alternate Flow:

- If the entered information is invalid at any step, the system displays an error message with details on what needs to be corrected.

- Procurement Officer corrects the invalid information and proceeds with the next steps.

7. Purchase Order Creation/Raw Material Procurement

Use Case Name: Purchase Order Creation/Raw Material Procurement

Use Case ID: UC007

Actor: Procurement Officer

Pre-condition: The Procurement Officer is logged into the ERPNext system.

Post-condition: Purchase order is created and submitted in the system.

Basic Flow:

1. Procurement Officer navigates to Buying > Purchase Order > New.

- System Response: Displays the Purchase Order creation form.

2. Procurement Officer selects the supplier from a dropdown list.

- System Response: Populates supplier details in the form.

3. Procurement Officer enters the order date.

- System Response: Validates the date format.

4. Procurement Officer clicks "Add Row" to add items.

- System Response: Displays fields for product, quantity, and price.

5. Procurement Officer selects the product from a list.

- System Response: Displays product details.

6. Procurement Officer enters the quantity and price.

- System Response: Calculates the total price for the item.

7. Procurement Officer repeats steps 4-6 for all items in the order.

- System Response: Updates the total order amount.

8. Procurement Officer clicks "Save."

- System Response: Saves the purchase order but does not submit it.

9. Procurement Officer clicks "Submit."

- System Response: Submits the purchase order, finalizing the creation process.

Alternate Flow:

- If any information is invalid, the system displays an error message with details on what needs to be corrected.

- Procurement Officer corrects the invalid information and proceeds with the next steps.

8. Receiving Goods

Use Case Name: Receiving Goods

Use Case ID: UC008

Actor: Storekeeper

Pre-condition: The Storekeeper is logged into the ERPNext system.

Post-condition: Goods are received and stock levels are updated in the system.

Basic Flow:

1. Storekeeper

navigates to Stock > Purchase Receipt > New.

- System Response: Displays the Purchase Receipt creation form.

2. Storekeeper selects the purchase order to convert.

- System Response: Populates purchase order details in the form.

3. Storekeeper verifies the received items against the purchase order.

- System Response: Displays fields for updating received quantities.

4. Storekeeper updates the received quantities.

- System Response: Validates the entered information.

5. Storekeeper clicks "Save."

- System Response: Saves the receipt but does not submit it.

6. Storekeeper clicks "Submit."

- System Response: Submits the receipt, updating stock levels in the system.

Alternate Flow:

- If any information is invalid, the system displays an error message with details on what needs to be corrected.

- Storekeeper corrects the invalid information and proceeds with the next steps.

9. Subcontractor Management

Use Case Name: Subcontractor Management

Use Case ID: UC009

Actor: Production Manager

Pre-condition: The Production Manager is logged into the ERPNext system.

Post-condition: Not directly supported in ERPNext.

10. Packaging Requirements

Use Case Name: Packaging Requirements

Use Case ID: UC010

Actor: Sales Representative

Pre-condition: The Sales Representative is logged into the ERPNext system.

Post-condition: Not directly supported in ERPNext.

11. Inventory Management

Use Case Name: Inventory Management

Use Case ID: UC011

Actor: Inventory Manager

Pre-condition: The Inventory Manager is logged into the ERPNext system.

Post-condition: Stock levels are updated in the system.

Basic Flow:

1. Inventory Manager navigates to Stock > Stock Entry > New.

- System Response: Displays the Stock Entry form.

2. Inventory Manager selects the type of stock entry (e.g., Material Receipt, Material Issue).

- System Response: Displays fields based on the selected stock entry type.

3. Inventory Manager clicks "Add Row" to add items.

- System Response: Displays fields for item code, quantity, and unit of measure.

4. Inventory Manager enters item code, quantity, and unit of measure.

- System Response: Validates the entered information.

5. Inventory Manager repeats steps 3-4 for all items in the stock entry.

- System Response: Updates the total quantities.

6. Inventory Manager clicks "Save."

- System Response: Saves the stock entry but does not submit it.

7. Inventory Manager clicks "Submit."

- System Response: Submits the stock entry, updating stock levels in the system.

Alternate Flow:

- If any information is invalid, the system displays an error message with details on what needs to be corrected.

- Inventory Manager corrects the invalid information and proceeds with the next steps.