**Fully Dressed Use Cases:**

* **Use Case1: Create Supplier**

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| **Use Case Name** | Create Supplier |
| **Scope** | Supplier Management System |
| **Level** | User Goal |
| **Primary Actor** | Supplier Manager |
| **Stakeholders and Interests** | * **Supplier Manager:** Wants to create new supplier records efficiently and accurately to ensure the supplier database is up-to-date. * **Procurement Department:** Needs accurate supplier information for procurement processes. * **Suppliers:** Expect their information to be recorded accurately for future business transactions. |
| **Precondition** | The Supplier Manager is logged into the Supplier Management System with appropriate permissions to create supplier records. |
| **Postcondition** | A new supplier record is created and saved in the system. |
| **Basic Flow** | * The Supplier Manager selects the option to create a new supplier from the Supplier Management System menu. * The system displays a form to enter supplier details. * The Supplier Manager enters the following details into the form: * Supplier Name * Address * Contact Information (e.g., phone number, email address) * Additional information (optional fields as required) * The Supplier Manager submits the form. * The system validates the entered information. * If all information is valid, the system saves the new supplier record. * The system confirms the creation of the supplier record to the Supplier Manager. |
| **Alternate Flows** | * **6a. Validation Error:** * 6a.1. The system identifies missing or invalid information in the form. * 6a.2. The system highlights the errors and displays appropriate error messages. * 6a.3. The Supplier Manager corrects the errors and resubmits the form. * 6a.4. The system revalidates the information and returns to step 6 of the basic flow. |
| **Assumptions** | * The Supplier Manager has the necessary information available to enter into the system. * The system is available and operational during the time of use. |

* **Use Case2: View Supplier**

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| **Use Case Name** | View Supplier |
| **Scope** | Supplier Management System |
| **Level** | User Goal |
| **Primary Actor** | Supplier Manager |
| **Stakeholders and Interests** | * **Supplier Manager:** Needs to access supplier details and transaction history for decision-making and management purposes. * **Procurement Department:** Requires detailed supplier information to assess performance and maintain relationships. * **Suppliers:** Expect their information to be accessible and accurate for reference during transactions. |
| **Precondition** | The Supplier Manager is logged into the Supplier Management System with appropriate permissions to view supplier records. |
| **Postcondition** | The Supplier Manager has accessed and reviewed the details and transaction history of the selected supplier. |
| **Basic Flow** | * The Supplier Manager selects the option to view existing suppliers from the Supplier Management System menu. * The system displays a list of all suppliers. * The Supplier Manager selects a specific supplier from the list. * The system retrieves and displays the detailed information of the selected supplier, including: * Supplier Name * Address * Contact Information (e.g., phone number, email address) * Additional information (e.g., types of goods/services provided) * Transaction history (e.g., past orders, payment history) * The Supplier Manager reviews the displayed supplier details and transaction history. |
| **Alternate Flow** | * **3a. No Suppliers Found:** * 3a.1. If no suppliers are found in the system, the system displays a message indicating that no supplier records are available. * 3a.2. The Supplier Manager can choose to create a new supplier or exit the view mode. * **4a. Detailed View Not Available:** * 4a.1. If the detailed view for a specific supplier is unavailable due to system issues, the system displays an error message. * 4a.2. The Supplier Manager can retry accessing the details or contact technical support for assistance. |
| **Assumptions** | * The Supplier Manager has the necessary permissions to access detailed supplier information. * The system is available and operational during the time of use. |

* **Use Case3: Update Supplier**

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| **Use Case Name** | Update Supplier |
| **Scope** | Supplier Management System |
| **Level** | User Goal |
| **Primary Actor** | Supplier Manager |
| **Stakeholders and Interests** | * **Supplier Manager:** Needs to update supplier records to ensure information is accurate and up-to-date. * **Procurement Department:** Requires accurate supplier information for procurement activities and maintaining supplier relationships. * **Suppliers:** Expect their information to be accurately recorded and updated as necessary. |
| **Precondition** | * The Supplier Manager is logged into the Supplier Management System with appropriate permissions to update supplier records. * The supplier to be updated already exists in the system |
| **Postcondition** | The supplier record is updated with the new information provided by the Supplier Manager. |
| **Basic Flow** | * The Supplier Manager selects the option to view existing suppliers from the Supplier Management System menu. * The system displays a list of all suppliers. * The Supplier Manager selects the supplier record to be updated. * The system displays the current details of the selected supplier. * The Supplier Manager clicks the "Edit" button to modify the supplier details. * The Supplier Manager updates the necessary information, such as: * Supplier Name * Address * Contact Information (e.g., phone number, email address) * Additional information (e.g., types of goods/services provided) * The Supplier Manager submits the updated information. * The system validates the updated information. * If all information is valid, the system saves the updated supplier record. * The system confirms the update to the Supplier Manager. |
| **Alternate Flow** | * **8a. Validation Error:** * 8a.1. The system identifies missing or invalid information in the form. * 8a.2. The system highlights the errors and displays appropriate error messages. * 8a.3. The Supplier Manager corrects the errors and resubmits the form. * 8a.4. The system revalidates the information and returns to step 9 of the basic flow. * **9a. Update Conflict:** * 9a.1. If the supplier record has been modified by another user since it was last retrieved, the system displays a conflict error. * 9a.2. The Supplier Manager can choose to reload the latest data and reapply the changes or cancel the update. |
| **Assumptions** | * The Supplier Manager has the necessary updated information available. * The system is available and operational during the time of use. |

**Use Case4: Delete Supplier**

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| **Use Case Name** | Delete Supplier |
| **Scope** | Supplier Management System |
| **Level** | User Goal |
| **Primary Actor** | Supplier Manager |
| **Stakeholders and Interests** | * **Supplier Manager:** Needs to delete outdated or incorrect supplier records to maintain a clean and accurate supplier database. * **Procurement Department:** Requires accurate supplier information and may need to ensure that no necessary records are deleted. * **Suppliers:** Expect that their information will be managed correctly, including the removal of records when appropriate. |
| **Precondition** | * The Supplier Manager is logged into the Supplier Management System with appropriate permissions to delete supplier records. * The supplier to be deleted exists in the system. |
| **Postcondition** | The supplier record is deleted from the system. |
| **Basic Flow** | * The Supplier Manager selects the option to view existing suppliers from the Supplier Management System menu. * The system displays a list of all suppliers. * The Supplier Manager selects the supplier record to be deleted. * The system displays the details of the selected supplier. * The Supplier Manager clicks the "Delete" button. * The system prompts the Supplier Manager to confirm the deletion. * The Supplier Manager confirms the deletion. * The system validates that the supplier can be deleted (e.g., no outstanding orders or dependencies). * If validation passes, the system deletes the supplier record. * The system confirms the deletion to the Supplier Manager. |
| **Alternate Flow** | * **6a. Deletion Confirmation Denied:** * 6a.1. If the Supplier Manager decides not to proceed with the deletion, the process is cancelled, and no changes are made. * **8a. Deletion Validation Failed:** * 8a.1. If the system identifies that the supplier cannot be deleted due to dependencies (e.g., outstanding orders), it displays an error message. * 8a.2. The Supplier Manager can take appropriate actions to resolve dependencies or cancel the deletion process. |
| **Assumptions** | * The Supplier Manager has the necessary permissions to delete supplier information. * The system is available and operational during the time of use. |

**Use Case5: Supplier Account Balance Management**

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| **Use Case Name** | Supplier Account Balance Management |
| **Scope** | Supplier Management System |
| **Level** | User Goal |
| **Primary Actor** | Supplier Manager |
| **Stakeholders and Interests** | * **Supplier Manager:** Needs to track and manage supplier account balances accurately for financial reporting and decision-making. * **Finance Department:** Requires up-to-date account balance information for accounting and financial analysis. * **Suppliers:** Expect accurate tracking of their account balances, including receivables and payables. |
| **Precondition** | * The Supplier Manager is logged into the Supplier Management System with appropriate permissions to view and manage supplier account balances. * Supplier accounts with transaction data exist in the system. |
| **Postcondition** | The Supplier Manager has accessed and reviewed the account balances, including receivables and payables, for the selected supplier. |
| **Basic Flow** | * The Supplier Manager selects the option to view supplier account balances from the Supplier Management System menu. * The system displays a list of all suppliers. * The Supplier Manager selects a specific supplier from the list. * The system retrieves and displays the account balance details of the selected supplier, including: * Total receivables * Total payables * Detailed transaction history * The Supplier Manager reviews the displayed account balance details. |
| **Alternate Flow** | * **4a. No Account Balance Data:** * 4a.1. If no account balance data is available for the selected supplier, the system displays a message indicating the absence of data. * 4a.2. The Supplier Manager can choose to select another supplier or exit the view mode. |
| **Assumptions** | * The Supplier Manager has the necessary permissions to access account balance information. * The system is available and operational during the time of use. |

* **Use Case6: Create Customer**

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| **Use Case Name** | Create Customer |
| **Scope** | Customer Management System |
| **Level** | User Goal |
| **Primary Actor** | Customer Manager |
| **Stakeholders and Interests** | * **Customer Manager:** Needs to create new customer records efficiently and accurately to maintain an up-to-date customer database. * **Sales and Marketing Department:** Requires accurate customer information for targeted marketing and sales activities. * **Customers:** Expect their information to be recorded accurately for future interactions and transactions. |
| **Precondition** | The Customer Manager is logged into the Customer Management System with appropriate permissions to create customer records. |
| **Postcondition** | A new customer record is created and saved in the system. |
| **Basic Flow** | * The Customer Manager selects the option to create a new customer from the Customer Management System menu. * The system displays a form to enter customer details. * The Customer Manager enters the following details into the form: * Customer Name * Address * Contact Information (e.g., phone number, email address) * Additional information (optional fields as required) * The Customer Manager submits the form. * The system validates the entered information. * If all information is valid, the system saves the new customer record. * The system confirms the creation of the customer record to the Customer Manager. |
| **Alternate Flow** | * **6a. Validation Error:** * 6a.1. The system identifies missing or invalid information in the form. * 6a.2. The system highlights the errors and displays appropriate error messages. * 6a.3. The Customer Manager corrects the errors and resubmits the form. * 6a.4. The system revalidates the information and returns to step 6 of the basic flow. |
| **Assumptions** | * The Customer Manager has the necessary information available to enter into the system. * The system is available and operational during the time of use. |

**Use Case7: View Customer**

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| **Use Case Name** | View Customer |
| **Scope** | Customer Management System |
| **Level** | User Goal |
| **Primary Actor** | Customer Manager |
| **Stakeholders and Interests** | * **Customer Manager:** Needs to access customer details and transaction history for decision-making and management purposes. * **Sales and Marketing Department:** Requires detailed customer information to personalize marketing efforts and track sales activities. * **Customers:** Expect their information to be accessible and accurate for reference during interactions and transactions. |
| **Precondition** | The Customer Manager is logged into the Customer Management System with appropriate permissions to view customer records. |
| **Postcondition** | The Customer Manager has accessed and reviewed the details and transaction history of the selected customer. |
| **Basic Flow** | * The Customer Manager selects the option to view existing customers from the Customer Management System menu. * The system displays a list of all customers. * The Customer Manager selects a specific customer from the list. * The system retrieves and displays the detailed information of the selected customer, including: * Customer Name * Address * Contact Information (e.g., phone number, email address) * Additional information (e.g., customer type, preferences) * Transaction history (e.g., past purchases, interactions) * The Customer Manager reviews the displayed customer details and transaction history. |
| **Alternate Flow** | * **3a. No Customers Found:** * 3a.1. If no customers are found in the system, the system displays a message indicating that no customer records are available. * 3a.2. The Customer Manager can choose to create a new customer or exit the view mode. |
| **Assumptions** | * The Customer Manager has the necessary permissions to access detailed customer information. * The system is available and operational during the time of use. |

**Use Case8: Update Customer**

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| **Use Case Name** | Update Customer |
| **Scope** | Customer Management System |
| **Level** | User Goal |
| **Primary Actor** | Customer Manager |
| **Stakeholders and Interests** | * **Customer Manager:** Needs to update customer records efficiently and accurately to maintain an up-to-date customer database. * **Sales and Marketing Department:** Requires accurate customer information for personalized marketing efforts and tracking sales activities. * **Customers:** Expect their information to be recorded accurately and updated as necessary for future interactions and transactions. |
| **Precondition** | * The Customer Manager is logged into the Customer Management System with appropriate permissions to update customer records. * The customer to be updated already exists in the system. |
| **Postcondition** | The customer record is updated with the new information provided by the Customer Manager. |
| **Basic Flow** | * The Customer Manager selects the option to view existing customers from the Customer Management System menu. * The system displays a list of all customers. * The Customer Manager selects the customer record to be updated. * The system retrieves and displays the current details of the selected customer. * The Customer Manager clicks the "Edit" button to modify the customer details. * The Customer Manager updates the necessary information, such as: * Customer Name * Address * Contact Information (e.g., phone number, email address) * Additional information (e.g., customer type, preferences) * The Customer Manager submits the updated information. * The system validates the updated information. * If all information is valid, the system saves the updated customer record. * The system confirms the update to the Customer Manager. |
| **Alternate Flow** | * **8a. Validation Error:** * 8a.1. The system identifies missing or invalid information in the form. * 8a.2. The system highlights the errors and displays appropriate error messages. * 8a.3. The Customer Manager corrects the errors and resubmits the form. * 8a.4. The system revalidates the information and returns to step 8 of the basic flow. |
| **Assumptions** | * The Customer Manager has the necessary updated information available. * The system is available and operational during the time of use. |

* **Use Case9: Delete Customer**

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| **Use Case Name** | Delete Customer |
| **Scope** | Customer Management System |
| **Level** | User Goal |
| **Primary Actor** | Customer Manager |
| **Stakeholders and Interests** | * **Customer Manager:** Needs to delete outdated or unnecessary customer records to maintain a clean and accurate customer database. * **Sales and Marketing Department:** Requires accurate customer information and may need to ensure that no necessary records are deleted. * **Customers:** Expect that their information will be managed correctly, including the removal of records when appropriate. |
| **Precondition** | * The Customer Manager is logged into the Customer Management System with appropriate permissions to delete customer records. * The customer to be deleted exists in the system. |
| **Postcondition** | The customer record is deleted from the system. |
| **Basic Flow** | * The Customer Manager selects the option to view existing customers from the Customer Management System menu. * The system displays a list of all customers. * The Customer Manager selects the customer record to be deleted. * The system retrieves and displays the details of the selected customer. * The Customer Manager clicks the "Delete" button. * The system prompts the Customer Manager to confirm the deletion. * The Customer Manager confirms the deletion. * The system validates that the customer can be deleted (e.g., no outstanding transactions or dependencies). * If validation passes, the system deletes the customer record. * The system confirms the deletion to the Customer Manager. |
| **Alternate Flow** | * **6a. Deletion Confirmation Denied:** * 6a.1. If the Customer Manager decides not to proceed with the deletion, the process is cancelled, and no changes are made. * **8a. Deletion Validation Failed:** * 8a.1. If the system identifies that the customer cannot be deleted due to dependencies (e.g., outstanding transactions), it displays an error message. * 8a.2. The Customer Manager can take appropriate actions to resolve dependencies or cancel the deletion process. |
| **Assumptions** | * The Customer Manager has the necessary permissions to delete customer information. * The system is available and operational during the time of use. |

* **Use Case10: Customer Account Balance Management**

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| **Use Case Name** | Customer Account Balance Management |
| **Scope** | Customer Management System |
| **Level** | User Goal |
| **Primary Actor** | Customer Manager |
| **Stakeholders and Interests** | * **Customer Manager:** Needs to track and manage customer account balances accurately for financial reporting and decision-making. * **Finance Department:** Requires up-to-date account balance information for accounting and financial analysis.   **Customers:** Expect accurate tracking of their account balances, including receivables and payables. |
| **Precondition** | * The Customer Manager is logged into the Customer Management System with appropriate permissions to view customer account balances. * Customer accounts with transaction data exist in the system. |
| **Postcondition** | The Customer Manager has accessed and reviewed the account balances, including receivables and payables, for the selected customer. |
| **Basic Flow** | * The Customer Manager selects the option to view customer account balances from the Customer Management System menu. * The system displays a list of all customers. * The Customer Manager selects a specific customer from the list. * The system retrieves and displays the account balance details of the selected customer, including: * Total receivables * Total payables * Detailed transaction history * The Customer Manager reviews the displayed account balance details. |
| **Alternate Flow** | * **3a. No Account Balance Data:** * 3a.1. If no account balance data is available for the selected customer, the system displays a message indicating the absence of data. * 3a.2. The Customer Manager can choose to select another customer or exit the view mode. |
| **Assumptions** | * The Customer Manager has the necessary permissions to access account balance information. * The system is available and operational during the time of use. |

* **Use Case11: Create Sub-Contractor**

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| **Use Case Name** | Create Sub-Contractor |
| **Scope** | Contractor Management System |
| **Level** | User Goal |
| **Primary Actor** | Contractor Manager |
| **Stakeholders and Interests** | * **Contractor Manager:** Needs to efficiently add new sub-contractor records with accurate information for management and collaboration purposes. * **Project Managers:** Require access to up-to-date sub-contractor information for project planning and coordination. * **Sub-Contractors:** Expect their details to be recorded accurately for communication and work assignment purposes. |
| **Precondition** | The Contractor Manager is logged into the Contractor Management System with appropriate permissions to create sub-contractor records. |
| **Postcondition** | A new sub-contractor record is created and saved in the system. |
| **Basic Flow** | * The Contractor Manager selects the option to create a new sub-contractor from the Contractor Management System menu. * The system displays a form to enter sub-contractor details. * The Contractor Manager enters the following details into the form: * Sub-Contractor Name * Address * Contact Information (e.g., phone number, email address) * Inventory Details (e.g., equipment, materials) * The Contractor Manager submits the form. * The system validates the entered information. * If all information is valid, the system saves the new sub-contractor record. * The system confirms the creation of the sub-contractor record to the Contractor Manager. |
| **Alternate Flow** | * **6a. Validation Error:** * 6a.1. The system identifies missing or invalid information in the form. * 6a.2. The system highlights the errors and displays appropriate error messages. * 6a.3. The Contractor Manager corrects the errors and resubmits the form. * 6a.4. The system revalidates the information and returns to step 6 of the basic flow. |
| **Assumptions** | * The Contractor Manager has the necessary information available to enter into the system. * The system is available and operational during the time of use. |

* **Use Case12: View Sub-Contractor**

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| **Use Case Name** | View Sub-Contractor |
| **Scope** | Contractor Management System |
| **Level** | User Goal |
| **Primary Actor** | Contractor Manager |
| **Stakeholders and Interests** | * **Contractor Manager:** Needs to access sub-contractor details, transaction history, and inventory details for management and collaboration purposes. * **Project Managers:** Require access to sub-contractor information for project planning and coordination. * **Sub-Contractors:** Expect their details to be accessible and accurate for communication and work assignment purposes. |
| **Precondition** | The Contractor Manager is logged into the Contractor Management System with appropriate permissions to view sub-contractor records. |
| **Postcondition** | The Contractor Manager has accessed and reviewed the details, transaction history, and inventory details of the selected sub-contractor. |
| **Basic Flow** | * The Contractor Manager selects the option to view existing sub-contractors from the Contractor Management System menu. * The system displays a list of all sub-contractors. * The Contractor Manager selects a specific sub-contractor from the list. * The system retrieves and displays the detailed information of the selected sub-contractor, including: * Sub-Contractor Name * Address * Contact Information (e.g., phone number, email address) * Transaction history (e.g., past projects, payments) * Inventory details (e.g., equipment, materials) * The Contractor Manager reviews the displayed sub-contractor details, transaction history, and inventory details. |
| **Alternate Flow** | * **3a. No Sub-Contractor Found:** * 3a.1. If no sub-contractors are found in the system, the system displays a message indicating that no records are available. * 3a.2. The Contractor Manager can choose to create a new sub-contractor or exit the view mode. |
| **Assumptions** | * The Contractor Manager has the necessary permissions to access detailed sub-contractor information. * The system is available and operational during the time of use. |

* **Use Case13: Update Sub-Contractor**

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| **Use Case Name** | Update Sub-Contractor |
| **Scope** | Contractor Management System |
| **Level** | User Goal |
| **Primary Actor** | Contractor Manager |
| **Stakeholders and Interests** | * **Contractor Manager:** Needs to update sub-contractor records efficiently and accurately to maintain an up-to-date contractor database. * **Project Managers:** Require access to updated sub-contractor information for project planning and coordination. * **Sub-Contractors:** Expect their details to be recorded accurately and updated as necessary for communication and work assignment purposes. |
| **Precondition** | * The Contractor Manager is logged into the Contractor Management System with appropriate permissions to update sub-contractor records. * The sub-contractor to be updated already exists in the system. |
| **Postcondition** | The sub-contractor record is updated with the new information provided by the Contractor Manager. |
| **Basic Flow** | * The Contractor Manager selects the option to view existing sub-contractors from the Contractor Management System menu. * The system displays a list of all sub-contractors. * The Contractor Manager selects the sub-contractor record to be updated. * The system retrieves and displays the current details of the selected sub-contractor. * The Contractor Manager clicks the "Edit" button to modify the sub-contractor details. * The Contractor Manager updates the necessary information, such as: * Sub-Contractor Name * Address * Contact Information (e.g., phone number, email address) * Inventory Details (e.g., equipment, materials) * The Contractor Manager submits the updated information. * The system validates the updated information. * If all information is valid, the system saves the updated sub-contractor record. * The system confirms the update to the Contractor Manager. |
| **Alternate Flow** | * **8a. Validation Error:** * 8a.1. The system identifies missing or invalid information in the form. * 8a.2. The system highlights the errors and displays appropriate error messages. * 8a.3. The Contractor Manager corrects the errors and resubmits the form. * 8a.4. The system revalidates the information and returns to step 8 of the basic flow. |
| **Assumptions** | * The Contractor Manager has the necessary updated information available. * The system is available and operational during the time of use. |

* **Use Case14: Delete Sub-Contractor**

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| **Use Case Name** | Delete Sub-Contractor |
| **Scope** | Contractor Management System |
| **Level** | User Goal |
| **Primary Actor** | Contractor Manager |
| **Stakeholders and Interests** | * **Contractor Manager:** Needs to delete outdated or unnecessary sub-contractor records to maintain a clean and accurate contractor database. * **Project Managers:** Require access to up-to-date sub-contractor information for project planning and coordination. * **Sub-Contractors:** Expect that their details will be managed correctly, including the removal of records when appropriate. |
| **Precondition** | * The Contractor Manager is logged into the Contractor Management System with appropriate permissions to delete sub-contractor records. * The sub-contractor to be deleted exists in the system. |
| **Postcondition** | The sub-contractor record is deleted from the system. |
| **Basic Flow** | * The Contractor Manager selects the option to view existing sub-contractors from the Contractor Management System menu. * The system displays a list of all sub-contractors. * The Contractor Manager selects the sub-contractor record to be deleted. * The system retrieves and displays the details of the selected sub-contractor. * The Contractor Manager clicks the "Delete" button. * The system prompts the Contractor Manager to confirm the deletion. * The Contractor Manager confirms the deletion. * The system validates that the sub-contractor can be deleted (e.g., no outstanding transactions or dependencies). * If validation passes, the system deletes the sub-contractor record. * The system confirms the deletion to the Contractor Manager. |
| **Alternate Flow** | * **6a. Deletion Confirmation Denied:** * 6a.1. If the Contractor Manager decides not to proceed with the deletion, the process is cancelled, and no changes are made. * **8a. Deletion Validation Failed:** * 8a.1. If the system identifies that the sub-contractor cannot be deleted due to dependencies (e.g., outstanding transactions), it displays an error message. * 8a.2. The Contractor Manager can take appropriate actions to resolve dependencies or cancel the deletion process. |
| **Assumptions** | * The Contractor Manager has the necessary permissions to delete sub-contractor records. * The system is available and operational during the time of use. |

* **Use Case15: Sub-Contractor Account Balance Management**

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| **Use Case Name** | Sub-Contractor Account Balance Management |
| **Scope** | Contractor Management System |
| **Level** | User Goal |
| **Primary Actor** | Contractor Manager |
| **Stakeholders and Interests** | * **Contractor Manager:** Needs to track and manage sub-contractor account balances accurately for financial reporting and decision-making. * **Finance Department:** Requires up-to-date account balance information for accounting and financial analysis. * **Sub-Contractors:** Expect accurate tracking of their account balances, including receivables and payables. |
| **Precondition** | * The Contractor Manager is logged into the Contractor Management System with appropriate permissions to view sub-contractor account balances. * Sub-contractor accounts with transaction data exist in the system. |
| **Postcondition** | The Contractor Manager has accessed and reviewed the account balances, including receivables and payables, for the selected sub-contractor. |
| **Basic Flow** | * The Contractor Manager selects the option to view sub-contractor account balances from the Contractor Management System menu. * The system displays a list of all sub-contractors. * The Contractor Manager selects a specific sub-contractor from the list. * The system retrieves and displays the account balance details of the selected sub-contractor, including: * Total receivables * Total payables * Detailed transaction history * The Contractor Manager reviews the displayed account balance details. |
| **Alternate Flow** | * **3a. No Account Balance Data**: * 3a.1. If no account balance data is available for the selected sub-contractor, the system displays a message indicating the absence of data. * 3a.2. The Contractor Manager can choose to select another sub-contractor or exit the view mode. |
| **Assumptions** | * The Contractor Manager has the necessary permissions to access account balance information. * The system is available and operational during the time of use. |

* **Use Case16: Create Order**

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| **Use Case Name** | Create Order |
| **Scope** | Order Management System |
| **Level** | User Goal |
| **Primary Actor** | Order Manager |
| **Stakeholders and Interests** | * **Order Manager:** Needs to efficiently create new orders with accurate information for tracking and fulfillment purposes. * **Customers:** Expect a seamless order creation process and accurate recording of their orders. * **Sales Team:** Require access to up-to-date order information for customer interactions and sales forecasting. |
| **Precondition** | * The Order Manager is logged into the Order Management System with appropriate permissions to create orders. * The system contains existing customer records for selection or allows the creation of new customer records. |
| **Postcondition** | A new order is created and saved in the system with the provided details. |
| **Basic Flow** | * The Order Manager selects the option to create a new order from the Order Management System menu. * The system presents a form to enter order details. * The Order Manager selects an existing customer from the list or chooses to create a new customer record. * If creating a new customer record: * The Order Manager enters relevant details such as customer name, address, and contact information. * The Order Manager enters order details including: * Order items * Quantity * Price * Delivery date * The Order Manager submits the order. * The system validates the entered information. * If all information is valid, the system saves the new order. * The system confirms the creation of the order to the Order Manager. |
| **Alternate Flow** | * **3a. Create New Customer:** * 3a.1. If the Order Manager chooses to create a new customer record: * 3a.2. The system prompts the Order Manager to enter customer details. * 3a.3. The Order Manager enters the required customer information. * 3a.4. The system saves the new customer record. * **8a. Validation Error:** * 8a.1. If the system identifies missing or invalid information in the form: * 8a.2. The system highlights the errors and prompts the Order Manager to correct them. * 8a.3. The Order Manager corrects the errors and resubmits the form. |
| **Assumptions** | * The Order Manager has the necessary information available to enter into the system. * The system is available and operational during the time of use. |

* **Use Case17: View Order**

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| **Use Case Name** | View Order |
| **Scope** | Order Management System |
| **Level** | User Goal |
| **Primary Actor** | Order Manager |
| **Stakeholders and Interests** | * **Order Manager:** Needs to access and review details of existing orders for tracking, monitoring, and customer communication purposes. * **Customers:** Expect accurate and timely updates on their orders when requested. * **Sales Team:** Require access to up-to-date order information for customer interactions and sales forecasting. |
| **Precondition** | * The Order Manager is logged into the Order Management System with appropriate permissions to view orders. * Existing orders are present in the system |
| **Postcondition** | The Order Manager has accessed and reviewed the details of the selected order. |
| **Basic Flow** | * The Order Manager selects the option to view existing orders from the Order Management System menu. * The system displays a list of all orders. * The Order Manager selects a specific order from the list. * The system retrieves and displays the details of the selected order, including: * Customer information (name, address, contact details) * Order items (product, quantity, price) * Order status (pending, processing, completed, cancelled) * The Order Manager reviews the displayed order details. |
| **Alternate Flow** | * **3a. No Orders Found:** * 3a.1. If no orders are found in the system, the system displays a message indicating the absence of orders. * 3a.2. The Order Manager can choose to create a new order or exit the view mode. |
| **Assumptions** | * The Order Manager has the necessary permissions to access order information. * The system is available and operational during the time of use. |

* **Use Case18: Update Order**

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| **Use Case Name** | Update Order |
| **Scope** | Order Management System |
| **Level** | User Goal |
| **Primary Actor** | Order Manager |
| **Stakeholders and Interests** | * **Order Manager:** Needs to update existing orders accurately for order modifications, additions, or corrections. * **Customers:** Expect accurate and timely updates on their orders when requested. * **Sales Team:** Require access to up-to-date order information for customer interactions and sales forecasting. |
| **Precondition** | * The Order Manager is logged into the Order Management System with appropriate permissions to update orders. * Existing orders are present in the system. |
| **Postcondition** | The selected order is updated with the new information provided by the Order Manager. |
| **Basic Flow** | * The Order Manager selects the option to view existing orders from the Order Management System menu. * The system displays a list of all orders. * The Order Manager selects a specific order from the list to update. * The system retrieves and displays the details of the selected order. * The Order Manager selects the option to edit or update the order. * The system presents a form with editable fields for order modification. * The Order Manager updates the necessary information, such as: * Order items * Quantity * Price * Delivery date * The Order Manager submits the updated order. * The system validates the entered information. * If all information is valid, the system saves the updated order. * The system confirms the update to the Order Manager. |
| **Alternate Flow** | * **5a. No Orders Found:** * 5a.1. If no orders are found in the system, the system displays a message indicating the absence of orders. * 5a.2. The Order Manager can choose to create a new order or exit the view mode. * **10a. Validation Error:** * 10a.1. If the system identifies missing or invalid information in the form: * 10a.2. The system highlights the errors and prompts the Order Manager to correct them. * 10a.3. The Order Manager corrects the errors and resubmits the form. |
| **Assumptions** | * The Order Manager has the necessary information available to update the order. * The system is available and operational during the time of use. |

* **Use Case19: Delete Order**

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| **Use Case Name** | Delete Order |
| **Scope** | Order Management System |
| **Level** | User Goal |
| **Primary Actor** | Order Manager |
| **Stakeholders and Interests** | * **Order Manager:** Needs to delete orders that are no longer valid or necessary to maintain an accurate order database. * **Customers:** Expect their orders to be managed correctly, including the removal of cancelled or incorrect orders. * **Sales Team:** Require access to up-to-date order information for customer interactions and sales forecasting. |
| **Precondition** | * The Order Manager is logged into the Order Management System with appropriate permissions to delete orders. * The order to be deleted exists in the system. |
| **Postcondition** | The selected order is deleted from the system. |
| **Basic Flow** | * The Order Manager selects the option to view existing orders from the Order Management System menu. * The system displays a list of all orders. * The Order Manager selects a specific order from the list to delete. * The system retrieves and displays the details of the selected order. * The Order Manager clicks the "Delete" button. * The system prompts the Order Manager to confirm the deletion. * The Order Manager confirms the deletion. * The system validates that the order can be deleted (e.g., no pending transactions or dependencies). * If validation passes, the system deletes the order. * The system confirms the deletion to the Order Manager. |
| **Alternate Flow** | * **6a. Deletion Confirmation Denied:** * 6a.1. If the Order Manager decides not to proceed with the deletion, the process is cancelled, and no changes are made. * **8a. Deletion Validation Failed:** * 8a.1. If the system identifies that the order cannot be deleted due to dependencies (e.g., pending transactions), it displays an error message. * 8a.2. The Order Manager can take appropriate actions to resolve dependencies or cancel the deletion process. |
| **Assumptions** | * The Order Manager has the necessary permissions to delete orders. * The system is available and operational during the time of use. |

* **Use Case20: List Pending Orders**

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| **Use Case Name** | List Pending Orders |
| **Scope** | Order Management System |
| **Level** | User Goal |
| **Primary Actor** | Order Manager |
| **Stakeholders and Interests** | * **Order Manager:** Needs to view and manage pending orders to ensure timely processing and fulfillment. * **Customers:** Expect their orders to be processed promptly and kept informed about the status. * **Sales Team:** Requires access to up-to-date pending order information for planning and resource allocation. |
| **Precondition** | * The Order Manager is logged into the Order Management System with appropriate permissions to view orders. * There are orders in the system with a pending status. |
| **Postcondition** | The Order Manager has accessed and reviewed the list of pending orders. |
| **Basic Flow** | * The Order Manager selects the option to view pending orders from the Order Management System menu. * The system retrieves all orders with a pending status. * The system displays a list of pending orders, including details such as: * Order ID * Customer name * Order date * Status * The Order Manager reviews the list of pending orders. |
| **Alternate Flow** | * **2a. No Pending Orders:** * 2a.1. If no orders are found with a pending status, the system displays a message indicating that there are no pending orders. * 2a.2. The Order Manager can choose to refresh the list or exit the view mode. |
| **Assumptions** | * The Order Manager has the necessary permissions to access pending order information. * The system is available and operational during the time of use. |

* **Use Case21: Edit Pending Order**

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| **Use Case Name** | Edit Pending Order |
| **Scope** | Order Management System |
| **Level** | User Goal |
| **Primary Actor** | Order Manager |
| **Stakeholders and Interests** | * **Order Manager:** Needs to edit pending orders to correct errors, update details, or make changes before processing. * **Customers:** Expect their orders to be accurately and promptly updated as necessary. * **Sales Team:** Requires access to the most current order information for planning and customer interactions. |
| **Precondition** | * The Order Manager is logged into the Order Management System with appropriate permissions to edit orders. * There are orders in the system with a pending status that can be edited. |
| **Postcondition** | The selected pending order is updated with the new information provided by the Order Manager. |
| **Basic Flow** | * The Order Manager selects the option to view pending orders from the Order Management System menu. * The system retrieves and displays a list of pending orders. * The Order Manager selects a specific pending order from the list to edit. * The system retrieves and displays the details of the selected order. * The Order Manager selects the option to edit the order. * The system presents a form with editable fields for order modification. * The Order Manager updates the necessary information, such as: * Order items * Quantity * Price * Delivery date * The Order Manager submits the updated order. * The system validates the entered information. * If all information is valid, the system saves the updated order. * The system confirms the update to the Order Manager. |
| **Alternate Flow** | * **5a. No Pending Orders Found:** * 5a.1. If no pending orders are found, the system displays a message indicating the absence of pending orders. * 5a.2. The Order Manager can choose to refresh the list or exit the view mode. * **10a. Validation Error:** * 10a.1. If the system identifies missing or invalid information in the form: * 10a.2. The system highlights the errors and prompts the Order Manager to correct them. * 10a.3. The Order Manager corrects the errors and resubmits the form. |
| **Assumptions** | * The Order Manager has the necessary information available to update the order. * The system is available and operational during the time of use. |

* **Use Case22: Delete Pending Order**

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| **Use Case Name** | Delete Pending Order |
| **Scope** | Order Management System |
| **Level** | User Goal |
| **Primary Actor** | Order Manager |
| **Stakeholders and Interests** | * **Order Manager:** Needs to delete pending orders that are incorrect, outdated, or no longer required to maintain a clean order database. * **Customers:** Expect their orders to be managed correctly, including the removal of cancelled or incorrect orders. * **Sales Team:** Requires access to up-to-date order information for customer interactions and sales forecasting. |
| **Precondition** | * The Order Manager is logged into the Order Management System with appropriate permissions to delete orders. * There are orders in the system with a pending status that can be deleted. |
| **Postcondition** | The selected pending order is deleted from the system. |
| **Basic Flow** | * The Order Manager selects the option to view pending orders from the Order Management System menu. * The system retrieves and displays a list of pending orders. * The Order Manager selects a specific pending order from the list to delete. * The system retrieves and displays the details of the selected order. * The Order Manager clicks the "Delete" button. * The system prompts the Order Manager to confirm the deletion. * The Order Manager confirms the deletion. * The system validates that the order can be deleted (e.g., no pending transactions or dependencies). * If validation passes, the system deletes the order. * The system confirms the deletion to the Order Manager. |
| **Alternate Flow** | * **6a. Deletion Confirmation Denied:** * 6a.1. If the Order Manager decides not to proceed with the deletion, the process is cancelled, and no changes are made. * **8a. Deletion Validation Failed:** * 8a.1. If the system identifies that the order cannot be deleted due to dependencies (e.g., pending transactions), it displays an error message. * 8a.2. The Order Manager can take appropriate actions to resolve dependencies or cancel the deletion process. |
| **Assumptions** | * The Order Manager has the necessary permissions to delete orders. * The system is available and operational during the time of use. |

* **Use Case23: Complete Pending Order**

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| **Use Case Name** | Complete Pending Order |
| **Scope** | Order Management System |
| **Level** | User Goal |
| **Primary Actor** | Order Manager |
| **Stakeholders and Interests** | * **Order Manager:** Needs to mark pending orders as complete once they are processed and fulfilled to maintain accurate order statuses. * **Customers:** Expect accurate and timely updates on the status of their orders. * **Sales Team:** Requires up-to-date information on order statuses for planning and customer interactions. |
| **Precondition** | * The Order Manager is logged into the Order Management System with appropriate permissions to update order statuses. * There are orders in the system with a pending status that are ready to be marked as complete. |
| **Postcondition** | The selected pending order is marked as complete in the system. |
| **Basic Flow** | * The Order Manager selects the option to view pending orders from the Order Management System menu. * The system retrieves and displays a list of pending orders. * The Order Manager selects a specific pending order from the list to mark as complete. * The system retrieves and displays the details of the selected order. * The Order Manager clicks the "Mark as Complete" button. * The system prompts the Order Manager to confirm the completion. * The Order Manager confirms the completion. * The system validates that the order can be marked as complete (e.g., all items are processed and fulfilled). * If validation passes, the system updates the order status to complete. * The system confirms the status update to the Order Manager. |
| **Alternate Flow** | * **6a. Completion Confirmation Denied:** * 6a.1. If the Order Manager decides not to proceed with marking the order as complete, the process is cancelled, and no changes are made. * **8a. Completion Validation Failed:** * 8a.1. If the system identifies that the order cannot be marked as complete due to pending actions (e.g., items not yet shipped), it displays an error message. * 8a.2. The Order Manager can take appropriate actions to resolve pending actions or cancel the completion process. |
| **Assumptions** | * The Order Manager has the necessary permissions to update order statuses. * The system is available and operational during the time of use. |