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| **System Name:** | | | | |
| **Author:** Anke Brits | **Date:** 21 July 2024 | | | **Version:** 1.0.0 |
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| **Use Case Name:** | Read customer location | | **Use Case Type** | |
| **Use Case ID:** | 4.6 | | Abstract: ◻ | |
| **Priority:** | High | | Extension: ☒ | |
| **Source:** | Client study (Hestico) | |  | |
| **Participating Actors:** | Technician | | | |
| **Description:** | This use case describes the process of viewing a customer’s location.  The technician selects the “View Location” button on the service request and the system displays a modal pop up of the customers location.  This use case concludes when the customer location has been viewed. | | | |
| **Pre-condition:** | The technician needs to be logged in  The service request must exist. | | | |
| **Typical Course**  **of Events:** | **Actor Action** | **System Response** | | |
| Step 1: The technician wants to view the location of the customer and clicks the “View Location” button on the **“Daily Schedule”** screen. | Step 2: The system displays the “View Location” modal which contains the following elements:  A heading with the text "Customer Location" at the top of the modal.  A label displaying the customer's name.  A label displaying the branch name.  A label displaying the branch address.  A close button to dismiss the modal.  The system uses Angular to bind the customerName, branchName, and branchAddress variables to the respective labels in the modal.  The system will send a request form the Angular frontend to the Service Request service where the service will make a http get request to the .NET Core backend which makes use of a Lambda LINQ Query which creates a SQL Select query to retrieve the location from the Customer Entity and the corresponding information from tables that are referenced by the foreign keys. The tables referenced by the foreign keys are described below.  The system displays the inventory work orders by using Entity Framework Core to retrieve only the related data in the InventoryWorkOrder table with the following attributes:   * InventoryWorkOrder\_Id (PK) * Work\_Order\_Id (FK) * Inventory\_Id (FK) * Quantity * Inventory\_Work\_Order\_Status\_Id (FK)   The system links the InventoryWorkOrder table to the Work\_Order table using the foreign key Work\_Order\_Id. The Work\_Order table has the following attributes:   * Work\_Order\_Id (PK) * Service\_Request\_Id (FK) * Machine\_Type\_Id (FK) * Work\_Order\_Status\_Id (FK) * Employee\_Id (FK) * Reason * Date\_Started * Date\_Completed * Invoice\_Id (FK)   The system links the InventoryWorkOrder table to the Inventory table using the foreign key Inventory\_Id. The Inventory table has the following attributes:   * Inventory\_Id (PK) * Inventory\_Status\_Id (FK) * Name * Inventory\_Description * Price * Quantity   The system links the InventoryWorkOrder table to the InventoryWorkOrderStatus table using the foreign key Inventory\_Work\_Order\_Status\_Id. The InventoryWorkOrderStatus table has the following attributes:   * Inventory\_Work\_Order\_Status\_Id (PK) * Name * Description   The system logs the following when customer location is viewed:   * user performing the operation * Transaction Type: * The description which contains the service request id.   In the following Audit\_Trail entity has the following attributes:   * Audit\_Trail\_Id (PK) * Date\_Time * User\_Name * Transaction\_Type * Description   The Audit\_trail\_Id is automatically incremented.  [ALT] | | |
| Step 3: The technician clicks the “Close” button. |  | | |
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| **Alternate Courses:** | [ALT] Step 2a: There was no customer location found in the database. The system will display an error message with the text “No items were found”. | | | |
| [ALT] Step 2b: There is an error in retrieving the information from the Customer table in the database. The system displays an error message. A label with the text "There is an error with the system, please try Again Later”. | | | |
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| **Post-condition:** | The system displays the customer location for the specific work order. | | | |