Austin Hall  
10 Oct 2019  
Software Modeling

Project 1

Use Cases:

1. As a user, I want to add a new product into the system.

**Common Case 1:** Adding a new Product

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| --- | --- |
| Actor | System |
| 1. Choose “Add New Product” Button   Main Screen: | 1. Display “Add Product” screen   Add Product Screen: |
| 1. Insert Product ID, Name, Price, and Quantity and click “Add”   Add Product Screen with data: | 1. Show “Product Added Successfully” Screen if successful   “Successful product add” Screen: |
| 1. Click “OK” button | 1. Return back and Display Main screen   Main Screen: |

**Exception Case 1:** Adding a new Product with an already existing product ID

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| Actor | System |
| 1. Choose “Add New Product” Button   Main Screen: | 1. Display “Add Product” screen   Add Product Screen: |
| 1. Insert Product ID (duplicate), Name, Price, and Quantity and click “Add”   Add Product Screen with data: | 1. Show “Product NOT added Successfully” Screen, showing Duplicate ID error   “Unsuccessful add: Duplicate ID” Screen: |
| 1. Click “OK” button | 1. Return back and Display Main screen   Main Screen: |

1. As a user, I want to add a new customer into the system.

**Common Case 2:** Adding a new Customer

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| Actor | System |
| 1. Choose “Add New Customer” Button   Main Screen: | 1. Display “Add Customer” screen   Add Customer Screen: |
| 1. Insert Customer ID, Name, Address, and Phone and click “Add”   Add Customer Screen with data: | 1. Show “Customer Added Successfully” Screen if successful   “Successful customer add” Screen: |
| 1. Click “OK” button | 1. Return back and Display Main screen   Main Screen: |

**Exception Case 2:**  Adding a new customer with an already existing customer ID

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| --- | --- |
| Actor | System |
| 1. Choose “Add New Customer” Button   Main Screen: | 1. Display “Add Customer” screen   Add Customer Screen: |
| 1. Insert **duplicate** Customer ID, Name, Address, and Phone and click “Add”   Add Customer Screen with data: | 1. Show “Customer not added Successfully” Screen if ID is already in database   “Unsuccessful customer add” Screen: |
| 1. Click “OK” button | 1. Return back and Display Main screen   Main Screen: |

1. As a user, I want to add a new purchase into the system.

**Common Case 3:** Adding a new purchase in the system

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| Actor | System |
| 1. Choose “Add New Purchase” Button   Main Screen: | 1. Display “Add Purchase” screen   Add Purchase Screen: |
| 1. Insert Purchase ID, CustomerID, ProductID, and Quantity | 1. As user enters information, Display Customer name, product name, product cost, and calculate the cost, tax, and total cost for sale. |
| 1. Click “Add” button | 1. Display “Purchase Added Successfully Screen”   Successful Purchase Add Screen: |
| 1. Click “OK” button | 1. Display purchase receipt screen   Purchase Receipt Screen: |
| 1. Click “OK” button | 1. Return back and Display Main screen   Main Screen: |

**Exception Case 3:** Adding a new purchase with an already existing purchase ID

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| --- | --- |
| Actor | System |
| 1. Choose “Add New Purchase” Button   Main Screen: | 1. Display “Add Purchase” screen   Add Purchase Screen: |
| 1. Insert **Duplicate** Purchase ID, CustomerID, ProductID, and Quantity | 1. As user enters information, Display Customer name, product name, product cost, and calculate the cost, tax, and total cost for sale. |
| 1. Click “Add” button | 1. Display “Purchase NOT Added Successfully Screen”   Unsuccessful purchase duplicate error screen: |
| 1. Click “OK” button | 1. Return back and Display Main screen   Main Screen: |

**Relations**

