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| **Use Case 5 (Add Customer)** | |
| **Description**: The system accepts the name, address, and phone of client. The system generates a unique ID and sets the balance to 0. | |
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| **Actions performed by actor** | **Response from system** |
| 1. User selects Add Customer . |  |
|  | 1. System requests customer information. |
| 1. User enters full name, address, phone number, credit card number, and credit card expiration date then submits. |  |
|  | 1. System validates that the credit card does not belong to any other account. If the credit card is not valid, system asks customer to repeat step 3. If the credit card is valid, system moves to step 5. |
|  | 1. System creates a record for the customer and generates a unique ID associated with the account. |
|  | 1. System displays “success” message and returns the application to the main menu. |

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| **Use Case 6 (Remove Customer)** | |
| **Description**: Removes customer using the unique customer ID. Customer information along with all credit cards associated with the account are removed. | |
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| **Actions performed by actor** | **Response from system** |
| 1. User selects Remove Customer. |  |
|  | 1. System requests Customer ID from user. |
| 1. User inputs customer ID and submits. |  |
|  | 1. System verifies that a valid customer ID for an existing customer was entered. |
|  | 1. If an invalid customer ID was entered, return to step 3. |
|  | 1. If a valid customer ID was entered, the system displays the account information and asks the user to verify that they would like to remove the customer account. |
| 1. If user selects yes proceed to step 9. |  |
| 1. If user selects no, proceed to step 10. |  |
|  | 1. System removes all customer information as well as any credit cards associated with the account. |
|  | 1. System returns the application to the main menu. |

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| **Use Case 7 (Add a Credit Card)** | |
| **Description**: Add a valid credit card to an existing account. | |
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| **Actions performed by actor** | **Response from system** |
| 1. User selects Add Credit Card. |  |
|  | 1. System requests Customer ID from user. |
| 1. User enters Customer ID and submits. |  |
|  | 1. System verifies Customer ID. If invalid, system returns to step 3. If valid, system requests credit card information. |
| 1. User enter credit card number and credit card expiration date. |  |
|  | 1. System verifies that the credit card does not exist within any other customer account. If the credit card DOES exist in another account, system returns user to step 5. If the credit card DOES NOT exist, system proceeds to step 7. |
|  | 1. System adds credit card number and credit card expiration date to the customer’s account. |
|  | 1. System asks user if they would like to add another credit card. |
| 1. User selects yes or no. |  |
|  | 1. If user selects yes, return to step 5. If user selects no, system returns application to the main menu. |

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| **Use Case 8 (Remove Credit Card)** | |
| **Description**: Remove a credit card from an existing account. | |
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| **Actions performed by actor** | **Response from system** |
| 1. User selects Remove Credit Card . |  |
|  | 1. System requests the credit card information from user. |
| 1. User enters credit card number. |  |
|  | 1. System verifies that the credit card exists. If the credit card exists, system proceeds to step 5. If the credit card does not exist, system returns to step 3. |
|  | 1. System checks to see if the credit card entered is the only card on the account. If it IS the only card on the account, the system displays error message and proceeds to step XXXX. If the credit card is NOT the only card on the account proceed to step 6. |
|  | 1. system displays the account information and asks the user to verify that they would like to remove credit card from the customer account. |
| 1. If user selects yes, proceed to step 9. |  |
| 1. If user select no, proceed to step 10. |  |
|  | 1. System removes the credit card information from the customers account. |
|  | 1. System displays “success” message and returns the application to the main menu. |

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| **Use Case 9 (List All Customers)** | |
| **Description**: Print customer information for all customers | |
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| **Actions performed by actor** | **Response from system** |
| 1. User selects List All Customers |  |
|  | 1. System prints customer’s demographic information along with all credit card information for each of the existing customers. |
| 1. User selects done |  |
|  | 1. System returns application to the main menu. |