**Online Car Rental Management System: Use Case Description**

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| **Use Case Number: 1** | | |
| **Name:** Customer profile CRUD | | |
| **Brief Description:** Create, read, delete and update customer | | |
| **Actors:** Customer | | |
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| **Precondition:** To read, delete and update customer details, customer must login | | |
| **Flow of Events:** | | |
| **1. Basic Flows** | | |
| **1.1.0 Create Customer Profile** | | |
| Step | User Actions | System Actions |
| 1 | The customer loads the sign-up page | The system displays the sign-up page |
| 2 | Customer fills the form and submit for the system to save | The system verifies that there’s no other profile in the database with the same email address and saves the customer and returns the success message on success or a fail message in case of failure. In case another profile exists with the email address, the system returns the message indicating a duplicate entry exists. |
| Postconditions | | |
| The customer profile is saved in the system | | |
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| **Business Rules** | | |
| No duplicate customer profiles. A unique profile is identified by email address. | | |
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| **1.1.1 Read/View Customer profile** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The customer logins in and view his/her profile | The system returns the customer profile |
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| **1.1.2 Update Customer profile** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The customer logins in and update his/her profile | The system verifies that there’s no other profile in the database with the same email address and saves the customer and returns the success message on success and saves the update. |
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| **Postconditions** |
| Customer profile is updated |
| **Business Rules** |
| Customer profile ID should be read only. |

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| **1.1.2 Delete Customer profile** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The customer logins in and delete his/her profile | The system flags the customer profile as deleted |
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| **Postconditions** |
| Customer is notified that his profile is deleted and redirected to the homepage |
| **Business Rules** |
| Customer should not be allowed to delete his profile if he still has a checked-out car. |
| Customer should not be allowed to delete his profile if he has a pending reservation. |

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| **Use Case Number: 2** | | |
| **Name:** User Access Control | | |
| **Brief Description:** Login, Logout, Change Password and Reset password | | |
| **Actors:** Customer, Clerk and Admin | | |
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| **Precondition:** They must be the system users. | | |
| **Flow of Events:** | | |
| **2. Basic Flows** | | |
| 2.1.0 Login | | |
| Step | User Actions | System Actions |
| 1 | User loads the login page | The system displays the login page |
| 2 | Customer fills in the username and password | The system validates the user credentials, if they are valid it grants access to the default page. |
| Postconditions | | |
| The user is redirected to the privileged page. | | |
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| **Business Rules** | | |
| Only users with valid credentials are granted access to the default page. | | |