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| **Use case Id:** UC**03** | Reserve Parking | |
| **Brief Description:** | VIP user reserves a parking spot for several hours. | |
| **Primary Actors:** | VIP user, Cloud. | |
| **Trigger:** | VIP user asks to reserve a parking spot. | |
| **Preconditions:**   * VIP user must be registered to the system. | | |
| **Post-conditions:**   * Reservation is created. | | |
| ***Normal Scenario*** | | |
| **Actor Action** | | **System Response** |
| 1. VIP user selects zone. | |  |
| 2. VIP user selects a date. | | 3. Request parking data from cloud. |
| 4. Cloud sends data. | | 5. Display if there are available parking spots at selected zone for each hour. |
| 6. VIP user selects start time and duration. | | 7. Check if the user does not have a reservation at the selected hours. (see 7.a) |
|  | | 8. Check if there is an available parking spot at all selected hours. (see 8.a) |
|  | | 9. Check if selected date is equal to today or tomorrow (selected date == current date || selected date == current date +1). (see 9.a) |
|  | | 10. If selected date is today, check if the reservation start time has passed. (selected start hour > current hour). (see 10.a) |
|  | | 11. Check if the number of selected hours with the total reservation hours for this date is less than or equal to the number of allowable reservation hours per day (6 hours). (see 11.a) |
|  | | 12. Create a reservation record in the cloud. |
|  | | 13. Calculate the total price and assign it to the reservation. |
|  | | 14. Assign “created” to the reservation status. |
|  | | 15. Start background notification service that notifies the VIP user 30 minutes before expiring time. |
| **Alternative Flows:**  7.a. If the user has a reservation at the selected time, display error message.  8.a. If there is no available parking spot at one of the selected hours, display error message.  9.a. If selected date is not equal to the current date or greater than the current date by more than 1 day, display error message to inform user that he can only reserve at the same day or one day before the reservation date.  10.a. If the selected start hour is less than or equal to current hour, display error message to inform user that selected start time has elapsed.  11.a. If the number of selected hours with the total reservation hours for this date is more than the number of allowable reservation hours per day, display error message. | | |

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| **Use case Id:** UC**04** | View Reservation | |
| **Brief Description:** | The VIP user views a reservation. | |
| **Primary Actors:** | VIP user, Cloud | |
| **Trigger:** | VIP user asks to view reservation. | |
| **Preconditions:**   * The VIP user must have a reservation. | | |
| **Post-conditions:**   * Reservation details was displayed to the VIP user. | | |
| ***Normal Scenario*** | | |
| **Actor Action** | | **System Response** |
| 1. VIP user asks to view a reservation. | | 2. Retrieve current and upcoming reservations related to the VIP user and display it. (see 2.a) |
|  | | 3. If user select extend option, <extend: Extend Reservation use case>. |
|  | | 4. If user select cancel option, <extend: Cancel Reservation use case>. |
| **Alternative Flows:**  2.a. If there are no reservations associated with the user, display a message. | | |

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| **Use case Id:** UC**05** | Extend Reservation | |
| **Brief Description:** | The VIP user extends a reservation and the extension time is by default one hour. | |
| **Primary Actors:** | VIP user, Cloud | |
| **Trigger:** | VIP user asks to extend reservation. | |
| **Preconditions:**   * The VIP user must have reservation. | | |
| **Post-conditions:**   * Reservation status was extended. * Total price was updated. | | |
| ***Normal Scenario*** | | |
| **Actor Action** | | **System Response** |
| 1. VIP user selects extend option. | | 2. Check if the selected reservation is at its last hour (current hour == last hour of reservation). (see 2.a) |
|  | | 3. Check if there is an available parking spot after the reservation time. (see 3.a) |
|  | | 4. Add one hour to the end of the current reservation time. |
|  | | 5. Change the status of the reservation to “extended” in the cloud. |
|  | | 6. Add the extension price to the reservation. |
| **Alternative Flows:**  2.a. if the current hour is not equal to the last hour of the selected reservation time., display an error message to inform VIP user that he can only extend his reservation in the last hour of his reservation.  3.a. If there is no available parking, displays a message to the VIP user. | | |

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| **Use case Id:** UC**06** | Cancel Reservation | |
| **Brief Description:** | The VIP user cancels a reservation. | |
| **Primary Actors:** | VIP user, Cloud | |
| **Trigger:** | VIP user requests to cancel reservation. | |
| **Preconditions:**   * The VIP user must already have a reservation. | | |
| **Post-conditions:**   * Reservation status is cancelled. * The price of the reservation is deducted. | | |
| ***Normal Scenario*** | | |
| **Actor Action** | | **System Response** |
| 1.VIP user selects cancel option. | | 2. Check if current time is greater than start time by 1 hour, if the user wants to cancel the whole reservation. (see 2.a) |
|  | | 3. If user want to cancel part of the reservation, check if current hour is greater than the time that he wants to cancel within reservation. (see 3.a) |
|  | | 4. Change the status of the reservation to cancelled or subcancelled in the cloud. |
|  | | 6. Calculate the deducted amount and deduct it from the total price of the reservation. |
| **Alternative Flows:** | | |

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| **Use case Id:** UC**09** | View Parking | |
| **Brief Description:** | The user views a map with the current status of parking spots and get directions for a specific spot. | |
| **Primary Actors:** | User, Cloud | |
| **Trigger:** | User asks to view current available parking spots. | |
| **Preconditions:** | | |
| **Post-conditions:**   * A map with the current status of parking spots is displayed to the user. | | |
| ***Normal Scenario*** | | |
| **Actor Action** | | **System Response** |
| 1. User select parking zone. | | 2. Retrieve zone data from cloud. |
| 3. Cloud sends data. | | 4. Display a map with the current status of parking spots. |
| 5. User select a parking spot to get direction. | | 6. Redirect to the google map |
| **Alternative Flows:** | | |

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| **Use case Id:** UC**11** | Request Car Care | |
| **Brief Description:** | The VIP user request car care services. | |
| **Primary Actors:** | VIP user | |
| **Trigger:** | VIP user asks to request car care service. | |
| **Preconditions:**   * VIP user must be registered to the system. | | |
| **Post-conditions:**   * VIP user is redirected to the Servesni application or website. | | |
| ***Normal Scenario*** | | |
| **Actor Action** | | **System Response** |
| 1. VIP user asks to request car care service. | | 2. Display services that Servesni company provides. |
| 3. VIP user selects one of the services. | | 4.Redirect user to the Servesni application or website. |
| **Alternative Flows:** | | |