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| **Use case Id:** UC03 | Handle accident | |
| **Brief Description** | Use case begins when the owner of the offending vehicle enters the VINs of both vehicles involved. The system retrieves vehicles registration details. The system creates an accident report which. The report is sent to the insurance company and the company sends back a receipt. | |
| **Primary actors** | Owner, Insurance company | |
| **Trigger** | The owner of the offending vehicle enters the VINs of both vehicles involved in the accident | |
| **Preconditions:**   1. **An accident happens between only two vehicles** 2. **The owner of the offending vehicle accepts responsibility for the accident** 3. **Both vehicles have a valid registration** | | |
| **Post-conditions:**   1. **An accident report was created** 2. **The insurance company of the offending vehicle was informed with the accident details** | | |
| **Main Success Scenario** | | |
| **Actor Action** | | **System Response** |
| 1. The offending vehicle owner enters the VINs of both vehicles involved in the accident | | 2.Retrieve vehicles registration info and other vehicle data |
|  | | 3.Request accident details |
| **4. The offending vehicle owner enters accident details** | | 5.Save accident information |
|  | | 6. Assign offending and victim vehicles |
|  | | 7. Request offending vehicle’s confirmation |
| **8. The offending vehicle owner sends a confirmation** | | 9. Store confirmation |
|  | | 10. Retrieve offending vehicle’s insurance policy |
|  | | 11. Generate an accident report |
|  | | 12. Provide the insurance company with the accident report |
| **13. The insurance company replies with an acknowledgement receipt** | | 14. Save receipt |
|  | | 15. Store accident report |

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| **Use case Id:** UC04 | Pay invoice | |
| **Brief Description** | Use case starts when the vehicle owner enters the VIN credit card details. The owner selects invoice to pay. The system then contacts qPay to check the credit card’s validity. The invoice status is changed to ‘Paid’. | |
| **Primary actors** | Vehicle Owner, qPay System | |
| **Trigger** | The vehicle owner enters the VIN and credit card details. | |
| **Preconditions:**   * The vehicle owner is logged into the iQVR system. * The vehicle has unpaid invoices or fines. * The vehicle owner has a credit card. | | |
| **Post-conditions:**   * A payment receipt is generated and displayed to the vehicle owner. * The unpaid invoice list is updated. | | |
| **Main Success Scenario** | | |
| **Actor Action** | | **System Response** |
| 1. owner enters the VIN, and credit card details. | | 1. retrieves the vehicle’s registration details. (see 2.a.) |
|  | | 1. displays the list of unpaid invoices. |
| 1. the owner selects the invoices and fines they want to pay. | | 1. saves the owner selection of the invoices. |
|  | | 1. computes the total amount of the invoice(s). |
|  | | 1. sends the card details and the total amount to the qPay system |
| 1. The qPay contacts the bank to check the card's validity. | |  |
| 1. The qPay returns an approval | | 1. receives the qPay response, and saves it, with the approval number. |
|  | | 1. generates a payment receipt |
|  | | 1. displays the payment receipt to the owner. |
|  | | 1. Update invoices status associated with the vehicle. |
| **Alternative flows:**  2.a. If there is no registration information, displays an error message and prompts for a correct VIN.  10.a. if no approval was received from qPay, prompts the vehicle owner to enter valid credit card details. | | |

A diagram of a project

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**Updated class diagram:**

A computer screen shot of a computer screen

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