# MileStone1 Use cases Specification

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| **Use case Id:** UC01 | Renewal of a vehicle registration | |
| **Brief Description** |  | |
| **Primary actors** | Vehicle owner, Insurance company, workshop | |
| **Trigger** | Initiated when the owner enters their VIN | |
| **Preconditions:**   * The vehicle owner is logged into the iQVR system. * The vehicle onwer has an expired registertion | | |
| **Post-conditions:**   * The vehicle’s registration is successfully renewed in the iQVR system. * A new invoice is added to the owner’s account | | |
| **Main Success Scenario** | | |
| **Actor Action** | | **System Response** |
| 1. The vehicle owner selects the option to renew vehicle registration. | | 1. prompts the owner to enter the VIN. |
| 1. The owner enters the VIN | | 1. retrieves the vehicle registartion deatails and age of the vehicle |
|  | | 1. retrieves the current insurance policy attached to the vehicle. |
|  | | 1. checks for any unpaid fines or fees. |
|  | | 1. creates a new registration with the same validation period as specified in the new insurance policy |
|  | | 1. attaches the insuarnce policy with vehicle registartion |
|  | | 1. prepares a new registration sticker with new validity |
|  | | 1. prepare invoice for the renewal. |
| **Alternative flows:**  4.a. if the owner has the vehicle for over two-years old, the system checks if it has a valid fitness certificate, if not the session is terminated  5.a. if the insurance policy is not valid, it terminates the session with the message "Get insurance policy."  6.a If there are unpaid fines, the system asks the vehicle owner to pay them before proceeding with the message “Pay the bill first”  8.a if there is a fitnees certifcate, it is attached cocurrently with the insurance. | | |

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| **Use case Id:** UC02 | Pay Unpaid Invoices | |
| **Brief Description** |  | |
| **Primary actors** | Vehicle Owner, qPay System | |
| **Trigger** |  | |
| **Preconditions:**   * The vehicle owner is logged into the iQVR system. * The vehicle has unpaid invoices or fines. | | |
| **Post-conditions:**   * A payment receipt is generated and displayed to the vehicle owner. * The unpaid invoice list is updated, and no more unpaid inovices in the owner’s account. | | |
| **Main Success Scenario** | | |
| **Actor Action** | | **System Response** |
| 1. The vehicle owner selects the "Pay Unpaid Invoices" option in the iQVR system. | | 1. prompts the owner to enter the VIN, and the owner’s credit card’s details |
| 1. owner enters the VIN, and credit card details such as number, name of the cardholder, and validity | | 1. retrieves the vehicle’s registration details. |
|  | | 1. Displays the list of unpaid invoices |
| 1. the owner selects the invoices and fines he/she wants to pay. | | 1. saves the onwer selection of the invoices |
|  | | 1. computes the total amount of the invoices |
|  | | 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. iQVR prompts the qPay to send their approval |
| 1. The qPay returns the approval | | 1. Receives the qPay response , and saves it, with the approval number. |
|  | | 1. generates a payment receipt and displays it to the owner. |
|  | | 1. Update list of the unpaid invoices associated with the vehicle. |
| **Alternative flows:**  4.a. If there is no regiteration information, the system displays an error message and prompts for a correct VIN.  11.a. if qPay found the card is invalid, it generates an error message to the iQVR system without payment processing.  13.a. if the card is invalid, the *i*QVR system asks the owner to enter valid credit card details | | |