# **Checker Mobile App**

## Traffic Police/ Police Department components

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | Verify card | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Traffic Police/ Police Department.   Summary:   * Traffic Police and Police Department can use the device to view card’s information and check if the card is valid or not.   Goal:   * Check if the insurance card is valid or not.   Triggers:   * Police put the NFC card near the device to read card information.   Preconditions:   * User must login into the system with role Traffic Police/ Police Department. * The application has been installed in the device.   Post Conditions:   * Success: Show the insurance card information. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Police put the NFC card close to the device. | Show the insurance contract and the motor information:   * Motor owner: Text * Owner address: Text * Phone number: Text * Plate number: Text * Engine: Text * Chassis: Text * Brand: Text * Model Code: Text * Type: Text * Color: Text * Capacity: Text * Year of manufacture: Text * Weight: Text * Seat capacity: Text * Contract fee: Text * Start date: Text * Expired date: Text   [Exception 1]  [Exception 2] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 |  |  |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If unable to read the card or the card is invalid | Show message to notify user that the card cannot be read | | 2 | Can’t connect to server. | Show message to notify user that the application could not connect to server |   Relationships:  Business Rules:   * Highlight the status of the card (Valid / Nearly expired / Expired / Invalid). * System check for the card ID in database from server. * The card is Valid if   + Card ID is exists in database and have a contract, and   + Card’s status is Activated, and   + Contract is in Ready state (not expired) * The card is Nearly expired if the expired date of current contract is going to expired in less than 15 days. * The card is Expired when the contract has expired * The card is Invalid if   + Card ID is not recognized in database from server, or   + Card’s status is Deactivated, or   + The contract has been cancelled, or   + There is no contract linked to the card. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | Add punishment information | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Traffic Police/ Police Department.   Summary:   * Traffic Police and Police Department can use the device to add punishment information of the driver into database.   Goal:   * Add punishment information of the driver into database.   Triggers:   * The device read NFC card successful.   Preconditions:   * User must login into the system with role Traffic Police/ Police Department. * The application in Verify card screen. * The NFC card is not Invalid.   Post Conditions:   * Success: Add punishment information of the driver into database. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Police touch the “+” button to open the menu. | Show the menu includes 2 buttons:   * Thêm thông tin vi phạm. * Thoát | | 2 | Police touch the “Thêm thông tin vi phạm” button.  [Alternative 1] | Display new screen that require police add description about the punishment and a picture of the punishment record.   * A text area for police input the description of the punishment. * A capture button to open camera to take picture of the punishment record. * Record: image. | | 3 | Police fill the punishment information and take a picture of the punishment record from camera. Then click the “Gửi đi” button.  [Alternative 2] | Add punishment information into database.  Show message: “Thêm thông tin vi phạm thành công”.  [Exception 1]  [Exception 2] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Police touch the “Thoát” button. | Return to the home screen. | | 2 | Police touch the “Quay lại” button. | Return to the Verify card page. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Police input missed one of punishment description and picture of punishment record. | Show message: “Chưa có mô tả về vi phạm hoặc ảnh chụp biên bản vi phạm”. | | 2 | Can’t connect to server. | Show message: “Không thể kết nối đến server, xin thử lại sau!”. |   Relationships:  Business Rules:   * Punishment title and image of punishment record is required * Application send punishment information to server. | | | |

# **Web application**

## User components:

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | View contract information | | |
| Author | TriPQM | | |
| Date | 21/05/2015 | **Priority** | Medium |
| Actor:   * Customer.   Summary:   * This use case help user view their contract’s information.   Goal:   * User can review their contract’s information.   Triggers:   * User clicks “Thông tin bảo hiểm” tab in the navigation bar.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: Show contract’s information to user. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Thông tin bảo hiểm” tab in the navigation bar. | Show information about the insurance and the motor’s information:   * Motor owner: Text * Owner address: Text * Phone number: Text * Plate number: Text * Engine: Text * Chassis: Text * Brand: Text * Model Code: Text * Type: Text * Color: Text * Capacity: Text * Year of manufacture: Text * Weight: Text * Seat capacity: Text * Contract fee: Text * Start date: Text * Expired date: Text |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | |  |  |  |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!” |   Relationships:  Business Rules:   * Information is loaded from database. * Highlight the status of the insurance contract. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | Cancel contract | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case help user cancel their contract..   Goal:   * User can cancel the contract.   Triggers:   * User click “Hủy Hợp Đồng” button in the “Thông tin bảo hiểm” page.   Preconditions:   * User must login into the system. * User’s contract must be valid.   Post Conditions:   * Success: Send to the staff the cancel insurance request. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Hủy Hợp Đồng” button in the “Thông tin bảo hiểm” page | Display new page with radio buttons ask user to choose the reason why he/she cancel contract request and a button to attach file:   * List of reasons to cancel contract: radio buttons. * Other reason: text area. * Button to attach file: button. | | 2 | User chooses the reason why he/she want to cancel contract and attach the related file (if any). Then click “Xác nhận” button to send the request.  [Alternative 1] | Show success message.  Store information to database.  [Exception 1]  [Exception 2] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User click “Hủy bỏ” button. | Return to the “Thông tin bảo hiểm” page. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If user doesn’t check any radio button | Show message: “Xin vui lòng chọn lý do hủy hợp đồng”. | | 2 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules:   * System update status of the contract to “Request cancel” * A notification will be sent to staff to notify about the cancel request, staff will approve to cancel the contract with customer. | | | |

// Sẽ sửa lại phần payment là 1 use case riêng

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | Renew contract by user | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case help user to renew their contract.   Goal:   * User can renew their insurance contract.   Triggers:   * Staff clicks “Gia hạn” button in “Thông tin hợp đồng” page.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: User renew contract or send a renew contract base on the payment way he/she used. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User clicks “Gia hạn” button in the “Thông tin bảo hiểm” page. | Display new page show user the renewal fee and the radio buttons for user to choose the payment gateways:   * Renewal fee: text. * Payment gateways:   + PayPal: radio button.  + Direct payment: radio button. | | 2 | If user choose PayPal gateway  [Alternative 1] | Forward to PayPal payment page to process the payment. | | 3 | User process the payment | If payment succeed,  Update information to database. Renew user insurance contract.  Show message: “Gia hạn thành công”  [Exception 1] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If user choose direct payment | Show list of company brands address. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If payment failed | Show message: “Thanh toán không thành công. Gia hạn bị hủy bỏ” |   Relationships: Extend “Paypal payment”.  Business Rules:   * If user paid the renew fee through PayPal, system automatically change the contract status to Ready. * If user paid the renew fee directly, Staff will update the payment for that contract and change contract status to Ready. * (Gia hạn tối đa 1 năm ?) * (Những hợp đồng hết hạn mới đc gia hạn?) | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | View compensation history. | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case help user to view compensation history.   Goal:   * User can view compensation history.   Triggers:   * User click “Lịch sử bồi thường” tab in the navigation bar.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: Show the compensation history to the user. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | * User click “Lịch sử bồi thường” tab in the navigation bar. | Display new page that show user the history of compensations includes:   * Driver name: text * License number: text * License type: text * Driver phone: text * Vehicle capacity: text * Driver address: text * Plate number of accident motor: text * Date of accident: text * Place of accident: text * Control Police Department: text * Description: text * Human damage: text * Asset damage: text * Observer: text * Compensation note: text * Attachment: link to a file * Created date: date * Resolve date: date * Decision: text * Resolve note: text   [Alternative 1]  [Exception 1] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If there is no compensation | Show message: “Không có bồi thường nào” |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules: | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | Request compensation | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case help user to request compensation.   Goal:   * User can request compensation.   Triggers:   * User click “Yêu cầu bồi thường” button in the “Lịch sử bồi thường” page.   Preconditions:   * User must login into the system. * User’s contract must be valid.   Post Conditions:   * Success: Store the compensation request to into database. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Yêu cầu bồi thường” button in the “Lịch sử bồi thường” page. | Display new page ask user to input required information includes:   * Driver name: textbox * License number: textbox * License type: textbox * Driver phone: textbox * Vehicle capacity: textbox * Driver address: textbox * Plate number of accident motor: textbox * Date of accident: textbox * Place of accident: textbox * Control Police Department: textbox * Description: textbox * Human damage: textbox * Asset damage: textbox * Observer: textbox * Compensation note: textbox * Attachment file: file dialog * Note: textbox | | 2 | User fill required information and attach the minutes of the accident (if any). Then click confirm button to send the request.  [Alternative 1] | Store information into database.  Show message:”Yêu cầu bồi thường được gửi thành công”.  [Exception 1]  [Exception 2] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User click cancel button. | Return to the “Lịch sử bồi thường” page. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User input missed one of requirement information. | Show message to notify user what required information is missed. | | 2 | Can’t connect to server.. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules:   * System will notify staffs about new compensation request. * After insurance company resolve the compensation, staff will update information and resolve the compensation in the system. * // update later | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | New card request | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case help user to request a new card.   Goal:   * User can request a new card.   Triggers:   * User click “Yêu cầu thẻ mới” tab in nagivation bar.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: New card request is stored into database. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Yêu cầu thẻ mới” tab in navigation bar. | Display a new page shows user:   * A text box to confirm by password: password * A note for staffs: textbox * Payment gateways:   + Direct payment: radio button  + PayPal: radio button   * The fee: text | | 2 | User enter password and choose the PayPal payment gateway. Then click confirm button.  [Alternative 1] | Forward to PayPal payment process page. | | 3 | User process the payment. | If payment succeed,  Show message: “Thanh toán thành công, hệ thống sẽ gửi thẻ mới cho bạn trong thời gian sớm nhất”  [Exception 1]  [Exception 2] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User enter password and choose the direct payment. Then click confirm button. | Show company information: address, telephone number. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If payment failed | Show message: “Thanh toán không thành công. Yêu cầu bị hủy bỏ” |   Relationships:  Business Rules:   * At a time a user can only has one new card request. * System will notify to staffs about new card request. * When staff print new card for customer, the status of the request will be changed automatically. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | View payment history | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case shows user the history of the transactions.   Goal:   * User can view list of transactions were made.   Triggers:   * User click “Lịch sử giao dịch” tab in the navigation bar.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: Show the transactions history to the user. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Lịch sử giao dịch” tab in the navigation bar. | Display new page that show user list of transaction history information includes:   * Date of transaction: date * Method: text * Service: text * Amount: currency * Receiver: text * PayPal transaction ID: text   [Alternative 1]  [Exception 1] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If there is no transaction were made | Show message: “Không có giao dịch nào” |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules:   * System will load transactions from database. * Transactions list is sorted by date order. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | View punishment history | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case shows user the history of the punishment.   Goal:   * User can view list of their punishment history.   Triggers:   * User click “Lịch sử vi phạm luật ATGT” tab in the navigation bar.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: Show the punishment history to the user. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Lịch sử vi phạm luật ATGT” tab. | Display a table shows list of punishments information includes:   * Date of punishment: date * Punishment description: text * Punishment record: link to file   // Đợi ERD và prototype  [Alternative 1]  [Exception 1] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | There is no punishment | Show message: “Không có vi phạm nào” |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules:   * Punishments will be loaded from database. * Punishment list is sorted by date order. | | | |

## // Đợi ý kiến thầy xem có thể bỏ accident ko

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | View accident history | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case shows user the history of the accidents.   Goal:   * User can view list of their accidents history.   Triggers:   * User click “Lịch sử tai nạn” tab in the “Thông tin hợp đồng” page.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: Show the accidents history to the user. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Lịch sử tai nạn” tab. | Display new list of accidents information includes:  // Đợi ERD và prototype  [Exception 1] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | |  |  |  |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules:   * System will load accidents from database. * Accidents list is sorted by date order. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | View card information | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case shows user their card information.   Goal:   * User can view their card information.   Triggers:   * User click “Thông tin thẻ” tab in the navigation bar.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: Show the user’s card information and the access history. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Thông tin thẻ” tab in the navigation bar. | Display new page shows the card information includes:   * Card ID: text * User name: text * Card status: text * Activated date: date   And a table shows list of access history information includes:   * Access date: date * Access device: text * Request: text * Response: text   [Exception 1] | |  |  |  |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | |  |  |  |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules:   * System loads all card information from database. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | View personal information | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case shows user their personal information.   Goal:   * User can review their card information.   Triggers:   * User click “Thông tin cá nhân” tab in the navigation bar.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: Show the user’s personal. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Thông tin cá nhân” tab in the navigation bar. | Display new page shows the user information includes:   * User code: text * User name: text * Address: text * Email: text * Phone number: text * Personal ID: text   And 2 buttons help user to edit their information and change the password.  [Exception 1] | |  |  |  |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | |  |  |  |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules:   * System loads all personal information from database. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| USE CASE – MIC000 | | | |
| Use Case No. | MIC000 | **Use Case Version** | 2.0 |
| Use Case Name | Change password. | | |
| Author | TriPQM | | |
| Date | 20/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case help user to change their password.   Goal:   * User can change the password.   Triggers:   * User click “Đổi Mật Khẩu” button in the “Thông Tin Cá Nhân” page.   Preconditions:   * User must login into the system.   Post Conditions:   * Success: Update new user’s password to database. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User click “Đổi Mật Khẩu” button in the “Thông Tin Cá Nhân” page. | Display new page contains textboxes for user to input their current and new password:   * Current password: textbox * New password: textbox * Confirm new password: textbox | | 2 | User input their current password, new password and confirm new password. Then click the OK button to change the password. | Update user’s password to database.  Show message:”Thay đổi mật khẩu thành công”  [Exception 1]  [Exception 2]  [Exception 3] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | |  |  |  |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If user input the wrong current password | Show message: “Mật khẩu hiện tại không đúng. Vui lòng thử lại” | | 2 | If the new password and the confirm new password not match | Show message: “Xác nhận mật khẩu mới không đúng. Vui lòng thử lại” | | 1 | Can’t connect to server. | Show message: “Không thể kết nối, xin thử lại sau!”. |   Relationships:  Business Rules:   * Confirm password must be match with password. * System will update new password for user if provided information is correct. | | | |