###### <Guest> Create new contract request

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| USE CASE – WG02 | | | |
| Use Case No. | WG02 | **Use Case Version** | 2.0 |
| Use Case Name | Create new contract request | | |
| Author | TrungDQ | | |
| Date | 27/05/2015 | **Priority** | Normal |
| Actor:   * Guest   Summary:   * This use case allows guest to create new contract request.   Goal:   * Guest can create new contract request.   Triggers:   * Guest sends command to create contract request.   Preconditions:   * N/A   Post Conditions:   * Success: New contract will be created for guest. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest goes to new contract view. | System requires information from guest:  **Personal information**   * Name: free text input, required, length 3 – 80. * Address: free text input, required, length 3 – 250. * Email: free text input, required, length 3 – 250. * Phone number: free text input, required, length 8 – 15. * Personal ID: free text input, length 8 – 15.   **Contract information** (all information below are required)   * Contract’s type: select one of the options. * Start date: date time input, required. * Contract term: text * Contract’s fee: text   **Vehicle information**   * Plate: free text input, required, length 4 – 15. * Brand: free text input, required, length 2 – 20. * Model code: free text input, length 2 – 20. * Vehicle type: free text input, length 2 – 20. * Color: free text input, length 2 – 20. * Engine: free text input, required, length 2 – 20. * Chassis: free text input, required, length 2 – 20. * Capacity: free text input, required, length 2 – 20. * Year of manufacture: number text input, value from 1900 to 2200. * Weight: free text input, value from 1 – 1000, unit: kilogram * Seat capacity: free text input, value from 1 – 100. | | 2 | Guest inputs information. |  | | 3 | Guest sends command to create new contract request. | System validate information, display contract details and request for confirmation.  [Exception 1, 2, 3] | | 4 | Guest sends command to create new contract request. | Display new view let user select one of following payment gateways:  - PayPal payment gateway.  - Direct payment.  And show guest the fee:   * Contract’s fee: text. | | 5 | If user chooses PayPal gateway and sends confirm command.  [Alternative 1] | Forward to PayPal payment view to process the payment. | | 6 | User process the PayPal payment | If payment succeed:  Add new contract information to the system.  Show message created successful.  [Exception 4] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If user chooses direct payment method and sends confirm command. | Show list of company brands address. |   Exceptions:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest sends command to create new contract request | System shows error message to ask user input missing required fields. | | 2 | Guest’s email is existed in the system | Show message to notify guest that their email is existed in the system. | | 3 | Guest’s vehicle plate is existed in the system | Show message to notify guest that their vehicle is existed in the system. | | 4 | If payment failed | Show message to notify user that payment failed and the renew request has been aborted. |   Relationships: Payment  Business Rules:   * New contract will be created in the system with inputted information. * Contract’s type must be 1 of 5 below:   + “Xe trên 50cc có BH cho người trên xe”   + “Xe trên 50cc không có BH cho người trên xe”   + “Xe dưới 50cc có BH cho người trên xe”   + “Xe dưới 50cc không có BH cho người trên xe”   + “Xe mô tô ba bánh, xe gắn máy và các loại xe tương tự” * The initial status of contract will be set to “Pending”. * When customer completed payment process, contract’s status would change from “Pending” to “No Card”. * If the contract start date is not come yet, the contract status is set to “Pending”. * Staff will receive a notification about new contract request, they verify contract’s information and issue a card for this contract, in this case, contract’s status would change from “No Card” to “Ready”. * System must ensure has no duplicate customer or vehicle. * An email contains customer code and password will be sent to user, user can use this information to login to the system later. * Expired date and start date must not exceed 1 year. * Contract end date must not be earlier start date. * Contract price (per year) would be calculated from contract type and sets by staff. | | | |

###### <Customer> New card request

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| USE CASE – WC09 | | | |
| Use Case No. | WC09 | **Use Case Version** | 2.0 |
| Use Case Name | New card request | | |
| Author | TriPQM | | |
| Date | 27/05/2015 | **Priority** | High |
| Actor:   * Customer.   Summary:   * This use case helps user to request a new card.   Goal:   * User can request a new card.   Triggers:   * User sends new card request command.   Preconditions:   * User must login into the system with role Customer. * User’s contract has not expired. * User must has a card in the system.   Post Conditions:   * Success: New card request will be sent to the system. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User sends new card request command. | Display a new view shows user:   * A text box to confirm by password: free text input, required, length 6-32. * Payment gateways: can be optional selected from these selections:   + PayPal payment gateway.   + Direct payment. * The new card fee: text. | | 2 | User enter password and choose the PayPal payment gateway. Then sends confirm command.  [Alternative 1] | Forward to PayPal payment process view.  [Alternative 2] | | 3 | User process the PayPal payment. | If payment succeed,  Show message to notify that the payment is succeed and the card will be sent to customer soon.  [Exception 1] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User choose the direct payment method. | Show company information: address, telephone number.  [Alternative 2] | | 2 | If user enter wrong password | Show message to notify that user has entered wrong password. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If payment failed | Show message to notify that the payment failed. The request is aborted. |   Relationships: N/A  Business Rules:   * At a time, user can only has one new card request for each contract. * A notification will be sent to staff after the process is completed. | | | |

###### <Staff> Update contract type information

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| USE CASE – WS16 | | | |
| Use Case No. | WS16 | **Use Case Version** | 2.0 |
| Use Case Name | Update contract type information | | |
| Author | TrungDQ | | |
| Date | 27/05/2015 | **Priority** | High |
| Actor:   * Staff   Summary:   * This use case allows staff to update contract type.   Goal:   * Staff can update contract type.   Triggers:   * Staff sends command to update contract type.   Preconditions:   * User has to logged in to the system as Staff role * Contract type is existed in the system   Post Conditions:   * Success: Contract type information will be updated * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Staff goes to view contract type information. | System list out information of accident:   * Name: free text input, required, length 1 – 250. * Description: free text input, required, length 1 – 2000. * Price per year: free number input, required, value from 0 to 1 billion, unit: VND. | | 2 | Staff inputs information |  | | 3 | Staff sends command to save new information. | System shows message notify contract type information is updated successfully.  [Exception 1] |   Alternative Scenario: N/A  Exceptions:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Staff sends command to save new information. | System shows error message to ask staff input missing required fields. |   Relationships: N/A  Business Rules:   * Contract type information will be updated to system. * Contract type price per year must be greater than 0 and less than 1 billion. | | | |

###### < Admin> Add staff

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| USE CASE – WA02 | | | |
| Use Case No. | WA02 | **Use Case Version** | 2.0 |
| Use Case Name | Add staff | | |
| Author | TrungDQ | | |
| Date | 27/05/2015 | **Priority** | High |
| Actor:   * Admin   Summary:   * This use case allows admin to add new staff to the system.   Goal:   * Admin can add new staff to the system.   Triggers:   * Admin sends command to add new staff to the system.   Preconditions:   * User has to logged in to the system as Admin role   Post Conditions:   * Success: Admin be able to add new staff to the system * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin goes to add staff. | System require information of staff:   * Staff code: text, required, length 3 - 80 * Name: text, required, length 3 – 80. * Email: text, required, length 3 – 250. * Phone number: text, required, length 8 – 15. | | 2 | Admin inputs information |  | | 3 | Admin sends command to add new staff. | System shows message staff has been added successfully.  [Exception 1] |   Alternative Scenario: N/A  Exceptions:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin sends command to add other staff. | System shows error message to ask user to enter missing required field. |   Relationships: N/A  Business Rules:   * Staff code is the code used in physical system maintained by insurance company, it probably already exists for each staff when join in the company. If the company has no staff code for their staff, this field can be enter personal id of the staff. * Staff code must not be duplicated. | | | |

###### <System> Notify schedule

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| USE CASE – WY01 | | | |
| Use Case No. | WY01 | **Use Case Version** | 2.0 |
| Use Case Name | Notify schedule | | |
| Author | TrungDQ | | |
| Date | 26/05/2015 | **Priority** | Medium |
| Actor:   * System   Summary:   * This use case describes how the system run a schedule task to notify to users when necessary.   Goal:   * System will able to update status of contract, compensation and send notification to users.   Triggers:   * System run a timer task that trigger check event.   Preconditions:   * Their must be at least one contract in the system.   Post Conditions:   * Success: Show the status of contract and notify to user. * Fail: System display error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | System run timer task to check contract state and sends notify | System response:   * List of contract status that need to be change. * List of compensation status that need to be change. * Notifications that need to be sent to users.   [Exception 1] |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | System timer task is interrupted | No notification will be sent. Error detail will be tracked in a log file. |   Relationships: N/A  Business rules:   * System timer will send check event at 00:00 everyday. * If a contract has expired date remaining is less than 15 days, system send notification to users to ask users to renew their contract. * Notification will repeat every 4 days if the user do not renew the contract. * Contracts that are not renewed will has status “Expired” and have no value. * If there is new compensation, or the compensation status changes, a notification will be sent to users. | | | |

###### <Police> Verify card information

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| USE CASE – CP01 | | | |
| Use Case No. | CP01 | **Use Case Version** | 2.0 |
| Use Case Name | Verify card information | | |
| Author | PhucNH | | |
| Date | 20/06/2015 | **Priority** | High |
| Actor:   * Police   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:   * The application in home screen.   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 * Card Status: text.   [Alternative 1]  [Exception 1, 2] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If unable to read the card or the card is invalid | Mobile app shows error to notify police that mobile cannot read this card |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot read card | Mobile app notifies that cannot read card | | 2 | Cannot connect to server. | Mobile app shows error connect to server is fail |   Relationships:  Business Rules:   * Mobile application sends request about information card to server and receives information about contract. * A card is “Valid” if all of the following conditions are true:   + The card ID is in activated status.   + Contract has status “Ready” or “Request cancel” * A card is “Nearly expired” if the card is “Valid” and the contract expired day remaining is less than 15 days. * Highlight the status of the card include:   + Valid card   + Expired card   + Card is nearly expired, show remaining days | | | |

###### <Police> Add punishment information

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| USE CASE – CP02 | | | |
| Use Case No. | CP02 | **Use Case Version** | 2.0 |
| Use Case Name | Add punishment information | | |
| Author | PhucNH | | |
| Date | 26/05/2015 | **Priority** | High |
| Actor:   * Police   Summary:   * Traffic Police and Police Department can use the device to add punishment information of the driver.   Goal:   * Add punishment information of the driver.   Triggers:   * Device reads NFC card successful.   Preconditions:   * The application in Verify card screen. * The NFC card is valid.   Post Conditions:   * Success: Add punishment information of the driver. * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Police chooses new punishment | Mobile allows for police add new punishment. | | 2 | Police chooses add more punishment. | Mobile required police input description about punishment and picture about it.   * Description: free text input, required, length 1 - 200 * Picture: file upload input, required | | 3 | Police fill the punishment information and sends punishment. | Mobile sends punishment from police and notify this action is success  [Exception 1, 2] |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Police input missed one of punishment description and picture of punishment record. | Mobile reminds that police forgets take a photo for punishment. | | 2 | Cannot connect to server. | Warning that cannot connect to server. |   Relationships: N/A  Business Rules:   * Information about punishment will be sent in server and update in contract of user. | | | |

###### <Staff> Search / filter contract

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| USE CASE – PS01 | | | |
| Use Case No. | PS01 | **Use Case Version** | 2.0 |
| Use Case Name | Search / filter contract | | |
| Author | PhucNH | | |
| Date | 26/05/2015 | **Priority** | Medium |
| Actor:   * Staff   Summary:   * This use case helps staff can search or filter the information of contract by contract code or customer name.   Goal:   * The information of contract is shown following the request search of staff.   Triggers:   * Staff sends command to search/ filter contract.   Preconditions:   * Staff must login successful.   Post Conditions:   * Success: The information of request search is shown. * Fail: System display error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Staff sends command to search/ filter contract  Staff chooses contract | System shows:  Information about request search.  System shows information about contract:   * Contract code: text * Customer name: text * Date start: text * Time of contract: text * Status: text   [Alternative 1]  [Exception 1] | |  |  |  |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | System cannot finds the result from request | System notifies cannot find the request search. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | The request search is not valid. It is include:   * Invalid the value of textbox * Fill some especial character | Website show message to notify. |   Relationships:  Business Rules:  Search/ filter with some criterion:   * Search/ filter by contract code * Search/ filter by customer name * Search/ filter by start date * Search/ filter by time of contract | | | |

###### <Staff> View contract information

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| USE CASE – PS02 | | | |
| Use Case No. | PS02 | **Use Case Version** | 2.0 |
| Use Case Name | View contract information | | |
| Author | PhucNH | | |
| Date | 21/05/2015 | **Priority** | Medium |
| Actor:   * Staff   Summary:   * This use case helps user view their contract’s information.   Goal:   * User can review their contract’s information.   Triggers:   * User chooses information insurance 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 chooses information insurance 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 |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot connect to server. | System shows error that cannot connect to server. |   Relationships:  Business Rules:   * System application shows information about contract. | | | |

###### <Staff> Print information to NFC card

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| USE CASE – PS03 | | | |
| Use Case No. | PS03 | **Use Case Version** | 2.0 |
| Use Case Name | Print information to NFC card | | |
| Author | PhucNH | | |
| Date | 26/05/2015 | **Priority** | High |
| Actor:   * Staff   Summary:   * This use case helps staff can print information of contract into NFC card.   Goal:   * The information of NFC can be printed from application on mobile   Triggers:   * Staff finds the information of contract then command to request print information into card.   Preconditions:   * Staff must login successful in mobile application. * Contract must NOT be in status “Pending” or “Cancelled”   Post Conditions:   * Success: Notify that print successfully. * Fail: Notify that print fail.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Staff filters by name or contract code to find contract | Show information of customer:   * Motor owner: text * Address: text * Phone Number: text * Plate: text * Chassis: text * Engine: text * Type: text * Time: text * Insurance premium: text * Fee payer: text * People issue: text * Date issue: text * Hot line: text | | 2 | Staff choose print information into card | Notify print success  [Alternative 1]  [Alternative 2]  [Exception 1] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Staff commands to search/ filter but cannot see the result of contract | Staff commands a request to server to notify | | 2 | The contract is already assigned with a card. | System show message to notify staff that the contract is already assigned to a card. Ask staff if he/she want to override the old card. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If the information of contract cannot print into the NFC card | Show message print fail |   Relationships:  Business Rules:   * The information of staff who prints that card will be saved and information of card will be printed and transfer for user. * In case staff decided to override old card, the old card will be deactivated and no longer work. | | | |