# <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 account and 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 current year. * 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. | Add new account and new contract information to the system. Show successful message and ask user to process payment. | | 5 | Guest sends command to process payment | 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. | | 6 | If user chooses PayPal gateway and sends confirm command.  [Alternative 1] | Forward to PayPal payment view to process the payment. | | 7 | User process the PayPal payment | If payment succeed:  Show message created successful.  [Exception 4] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | If user chooses direct payment method | Show company address map. |   Exceptions:   |  |  |  | | --- | --- | --- | | No | 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 customer account and new contract will be created in the system with inputted information. * The initial status of contract will be set to “Pending”. * When customer completed payment process:   + if the contract’s start date has come, contract’s status would change from “Pending” to “No Card”.  + If start date is not come yet, the contract status is not changed.   * 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. * Start date must not be earlier than the current date. * Contract term is specified by the system. * Contract price would be calculated from contract type and contract term. | | | |

# <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 to user:   * A text box to confirm by password: free text input, required, length 6-32. * A text box to enter note: : free text input, length 0-2000. * Payment gateways: can be optional selected from these selections:   + PayPal payment gateway.   + Direct payment. * Check boxes for customer to choose deactivate the old card immediately and delivery card request. * The new card fee: text. * The delivery fee: text. * The total 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 new card request and payment is succeed.  [Exception 1] |   Alternative Scenario:   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | User choose the direct payment method. | Show message to notify that the new card is sent.  [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:   * The new card fee and delivery fee is specified by the system. * 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. | | | |

# <Admin> 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:   * Admin   Summary:   * This use case allows admin to update contract type.   Goal:   * Admin can update contract type.   Triggers:   * Admin sends command to update contract type.   Preconditions:   * User has to logged in to the system as Admin 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 | Admin goes to view contract type information. | System list out information of contract type:   * 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: VNĐ. | | 2 | Admin inputs information |  | | 3 | Admin sends command to save new information. | System shows message notify contract type information is updated successfully.  [Exception 1,2] |   Alternative Scenario: N/A  Exceptions:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin sends command to save new information. | System shows message notify 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: New staff is added into the system * Fail: Show error message.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin goes to add staff page. | System require information of staff:   * Email: text, required, length 3 – 250. * Name: text, required, length 3 – 80. * 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 automatic initialized by the system. * Staff email 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. | | | |