###### <Admin> Search account

Figure .. <Admin> Search account

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| **USE CASE – PCCC01** | | | |
| **Use Case No.** | GBTS01 | **Use Case Version** | 1.1 |
| **Use Case Name** | Search account | | |
| **Author** | Doan Minh Duc | | |
| **Date** | September 13, 2016 | **Priority** | High |
| **Actor:**   * Administrator.   **Summary:**   * This use case allows admin to search for accounts.   **Goal:**   * Admin can quickly navigate and view the information of accounts by phone number.   **Triggers:**   * Admin sends Search command.   **Preconditions:**   * Actor logged in the system with role “Administrator”.   **Post Conditions:**   * **Success:** System shows the result. * **Fail:** N/A   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin inputs the phone number then sends Search command. | System displays matched account in a table with these following information for each account:  +“Số điện thoại”: label  +“Vai trò”: label  +”Họ tên”: label  +”Trạng thái”: label  [Alternative 1] |   **Alternative Scenario:**  [Alternative 1]   |  |  |  | | --- | --- | --- | | Step | Cause | System Response | | 1 | Admin input a none-existed phone number | System shows no results matched. |   **Exceptions: N/A**  **Relationships: N/A**  **Business Rules:**   * Each account has a unique phone number. * System display top 10 account on each page. | | | |

Table .. <Administrator> Search account

###### <Administrator> Add account

Figure .. <Adminstrator> Add account

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| **USE CASE – PCCC02** | | | |
| **Use Case No.** | GBTS02 | **Use Case Version** | 1.1 |
| **Use Case Name** | Add account | | |
| **Author** | Doan Minh Duc | | |
| **Date** | September 13, 2016 | **Priority** | High |
| **Actor:**   * Administrator.   **Summary:**   * This use case allows admin to create an account in the system.   **Goal:**   * Admin can create new account with specific role such as Admin, Staff, Manager or Passenger.   **Triggers:**   * Admin sends creating account command.   **Preconditions:**   * User logged in the system with the role “Administrator”.   **Post Conditions:**   * **Success:** New account is inserted into the system. * **Fail:** System displays appropriate error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin sends creating account command. | System list information of account in system and components:   * “Số điện thoại”: number input, required, length 10-15 * “Vai trò”: select one of the options such as “Quản trị”, “Quản lý”, “Hành khách”, “Nhân viên” ,required. * “Họ tên”: free text input, length 3-80. * Register command. * Cancel command. | | 2 | Admin fills in information for each account.  [Alternative 1, 2] | System validates input information. | | 3 | Admin sends Register command. | System displays a successful message: “….”  [Exception 2] |   **Alternative Scenario:**  [Alternative 1]   |  |  |  | | --- | --- | --- | | 1 | Admin clicks on Cancel button to cancel the register process. | System redirects to admin’s main page. |   [Alternative 2]   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin inputs invalid data. | System displays an error message and asks admin to fill the form again. |   **Exception:**  [Exception 2]   |  |  |  | | --- | --- | --- | | Step | Cause | System Response | | 1 | Admin inputs an existed phone number. | System displays an error message “Số điện thoại đã tồn tại trong hệ thống”. |   **Relationships: N/A**  **Business Rules:**   * Phone number is unique on each account. * “Vai trò” is the account’s role with 4 options, “Admin”, “Quản lý”,”Nhân viên”, “Hành khách”. “Admin” will act as an Administrator role in the system. “Quản lý” will act as Bus Manager in the system. “Nhân viên” will act as a Staff role in the system. “Hành khách” will act as a Passenger role in the system. * New account will be created with the status “Đang hoạt động”. * The auto-generated password will be sent to registered phone number. | | | |

Table .. <Administrator> Add account

###### <Administrator> Edit account

Figure .. <Adminstrator> Edit account

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| **USE CASE – PCCC02** | | | |
| **Use Case No.** | GBTS03 | **Use Case Version** | 1.1 |
| **Use Case Name** | Edit account | | |
| **Author** | Doan Minh Duc | | |
| **Date** | September 13, 2016 | **Priority** | High |
| **Actor:**   * Administrator.   **Summary:**   * This use case allows admin to edit an account information.   **Goal:**   * The information of an account is updated in the system.   **Triggers:**   * Admin sends Edit account command.   **Preconditions:**   * User logged in the system with the role “Administrator”. * The account must be available in the database.   **Post Conditions:**   * **Success:** Anaccount’s information is updated in the database. * **Fail:** System displays appropriate error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin sends Edit account command. | System list out information of account in system and components:   * “Số điện thoại”: label * “Chức vụ”: select one of the options such as “Quản trị”, “Quản lý”, “Hành khách”, “Nhân viên” ,required. * “Trạng thái hoạt động”: select one of the options such as “Đang hoạt động” or “Đã khóa”. * “Họ tên”: free text input, length 3-80 * Update command. * Cancel command. | | 2 | Admin edits the information.  [Alternative 1] | System validates inputted information. | | 3 | Admin sends Update command | System updates the information of the account. System shows a successful message.  [Exception 2] |   **Alternative Scenario:**  [Alternative 1]   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin clicks on Cancel button to cancel the update process. | System redirects to admin’s main page. |   **Exceptions: N/A**  **Relationships: N/A**  **Business Rules:**   * An account’s status can be “Đang hoạt động” or “Đã khóa”. “Đang hoạt động” means the account is activated, it can be used to access the system. “Đã khóa” means the account is disabled, it cannot be used to access the system. * “Vai trò” is the account’s role with 4 options, “Admin”, “Quản lý”,”Nhân viên”, “Hành khách”. “Admin” will act as an Administrator role in the system. “Quản lý” will act as Bus Manager in the system. “Nhân viên” will act as a Staff role in the system. “Hành khách” will act as a Passenger role in the system. * Each account has a unique phone number. | | | |

###### <Administrator> Delete account

Figure .. <Adminstrator> Edit account

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| **USE CASE – PCCC02** | | | |
| **Use Case No.** | GBTS04 | **Use Case Version** | 1.1 |
| **Use Case Name** | Delete account | | |
| **Author** | Doan Minh Duc | | |
| **Date** | September 14, 2016 | **Priority** | High |
| **Actor:**   * Administrator.   **Summary:**   * This use case allows admin to delete an account.   **Goal:**   * An account is deleted. A deleted account cannot access the system   **Triggers:**   * Admin sends Delete account command on a specific account   **Preconditions:**   * User logged in the system with the role “Administrator”. * The account must be available in the ~~database~~.   **Post Conditions:**   * **Success:** Anaccount is deleted in the system. * **Fail:** System displays appropriate error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 2 | Admin sends Delete account command on a specific account.  [Alternative 1] | System displays a confirmation message.  - Confirm command  - Cancel command | | 3 | Admin sends Confirm command.  [Alternative 2] | System deletes the account then shows successful message.  [Exception 1] |   **Alternative Scenario:**  [Alternative 1]   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin clicks on Cancel button to cancel the confirmation process. | System redirects to admin’s main page. |   [Alternative 2]   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Admin clicks on Cancel button to cancel the delete process. | System redirects to admin’s delete page. |   **Exceptions:**  [Exception 1]   |  |  |  | | --- | --- | --- | | Step | Cause | System Response | | 1 | Cannot found the account in the database | System displays appropriate error message. |   **Relationships: N/A**  **Business Rules:**   * The account is deleted by being flagged as deleted. * Account which is flagged as deleted won’t be showed in any circumstances. | | | |

###### <Unauthorized User> Login

Figure .. < Unauthorized User> Login

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| **USE CASE – PCCC02** | | | |
| **Use Case No.** | GBTS04 | **Use Case Version** | 1.0 |
| **Use Case Name** | Login | | |
| **Author** | Doan Minh Duc | | |
| **Date** | September 18, 2016 | **Priority** | High |
| **Actor:**   * Unauthorized User   **Summary:**   * This use case allows unauthorized user to log into the system with a specific role   **Goal:**   * Authenticate user, redirect user to a specific view base on the role.   **Triggers:**   * Unauthorized User sends Login account command.   **Preconditions:**   * Valid phone number and password is inputted.   **Post Conditions:**   * **Success:** Unauthorized User is logged into the system as an Authorized User. * **Fail:** N/A   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 2 | Unauthorized User inputs information then send Login command.  [Exception 1] | Unauthorized user will login system with their specified role.  The system redirects to the role’s view.  [Alternative 1] |   **Alternative Scenario:**  [Alternative 1]   |  |  |  | | --- | --- | --- | | Step | Cause | System Response | | 1 | Unauthorized user leaves phone number and password field empty | System display an error message. |   **Exception:**  [Exception 1]   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Unauthorized user inputs wrong phone number and password | System displays an error message. |   **Relationships: N/A**  **Business Rules:**   * System authenticate user by checking the phone number and password. * User enter password in the hidden text field and password must be encrypted before sending to server. * After logged in to the system, actor will be redirect to a specific view: * If the role is “Hành khách”, the system will display Passenger view. * If the role is “Quản lý”, the system will display Bus Manager view. * If the role is “Nhân viên”, the system will display Bus Manager view. * If the role is “Quản trị”, the system will display Administrator view. | | | |

###### <Unauthorized User> Activate account

Figure .. < Unauthorized User> Activate account

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| **USE CASE – PCCC02** | | | |
| **Use Case No.** | GBTS04 | **Use Case Version** | 1.0 |
| **Use Case Name** | Activate account | | |
| **Author** | Doan Minh Duc | | |
| **Date** | September 18, 2016 | **Priority** | High |
| **Actor:**   * Unauthorized User   **Summary:**   * This use case allows unauthorized user to activate the card.   **Goal:**   * Card is activated, user has access to more features.   **Triggers:** N/A  **Preconditions:**   * Unauthorized User’s card is not activated.   **Post Conditions:**   * **Success:** Systemresponds with a successful SMS message. * **Fail:** System responds with an appropriate SMS error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Unauthorized User send an SMS of the card UID using his/her phone to the system’s operator using the system’s syntax.  [Alternative 1,2] | System activates the UID then responds with a successful SMS message.  [Exception 1] |   **Alternative Scenario:**  [Alternative 1]   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Unauthorized user uses the wrong syntax. | System then responds with an error SMS message. |   [Alternative 2]   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Unauthorized user sends an activated UID. | System then responds with an error SMS message. |   **Exception:**  [Exception 1]   |  |  |  | | --- | --- | --- | | Step | Cause | System Response | | 1 | Unauthorized user sends a none-existed UID. | System then responds with an error SMS message. |   **Relationships: N/A**  **Business Rules:**   * Each phone number can only be used to register 3 UID. * Only UID that is already written in the database can be activated. * Activated card has Free Card Blocking feature. * Free Card Blocking: If the card is lost or stolen, passenger may request for the card to be blocked and any remaining stored value to be refunded. It does not warrant that any or all remaining stored value will be recovered and refunded. It will not be responsible for any usage or deduction of stored value on your card pending the completion of the Card Blocking process. To report, passenger has to call the customer service hotline. | | | |

###### <Authorized User> Logout

Figure .. < Unauthorized User> Login

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| **USE CASE – PCCC02** | | | |
| **Use Case No.** | GBTS04 | **Use Case Version** | 1.0 |
| **Use Case Name** | Logout | | |
| **Author** | Doan Minh Duc | | |
| **Date** | September 18, 2016 | **Priority** | High |
| **Actor:**   * Authorized User   **Summary:**   * This use case allows authorized users to unauthenticate their role in the system.   **Goal:**   * Unauthenticate authorized user. User is logged out of the system and cannot access the system.   **Triggers:**   * Authorized User sends Logout command.   **Preconditions:**   * User must have logged in.   **Post Conditions:**   * **Success:** User is logged out of the system and becomes unauthorized user. * **Fail:** N/A   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User sends log out command.  [Alternative 1] | System logs user out of the system.  System displays login view. |   **Alternative Scenario:**  [Alternative 1]   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | User sends no commands in a long time. | System logs user out of the system.  System displays login view. |   **Exception: N/A**  **Relationships: N/A**  **Business Rules:**   * Session expires after 20 minutes if user makes no interactions with the system. | | | |

###### <Authorized User> Edit profile

Figure .. < Unauthorized User> Login

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| **USE CASE – PCCC02** | | | |
| **Use Case No.** | GBTS04 | **Use Case Version** | 1.0 |
| **Use Case Name** | Edit profile | | |
| **Author** | Doan Minh Duc | | |
| **Date** | September 18, 2016 | **Priority** | Low |
| **Actor:**   * Authorized User   **Summary:**   * This use case allows authorized users to edit their personal information.   **Goal:**   * Authorized user’s personal information is updated.   **Triggers:**   * Authorized User sends Edit profile command.   **Preconditions:**   * User must have logged in.   **Post Conditions:**   * **Success:** Authorized user’s personal information is updated in the database. * **Fail:** N/A   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Authorized User sends Edit profile command.  [Alternative 1] | System list out information of account in system and components:   * “Số điện thoại”: label * “Trạng thái hoạt động”: label * “Họ tên”: free text input, length 6-50 * Update command. | | 2 | Authorized User updates information. | System validates the input | | 3 | Authorized User send Update command. | System updates the account’ profile.  System display a successful message. |   **Alternative Scenario: N/A**  **Exception: N/A**  **Relationships: N/A**  **Business Rules:**   * “Họ tên” is the user’s full name. | | | |