**Scrap collector - Use case detail**

1. **<Guest> Overview Use Case**

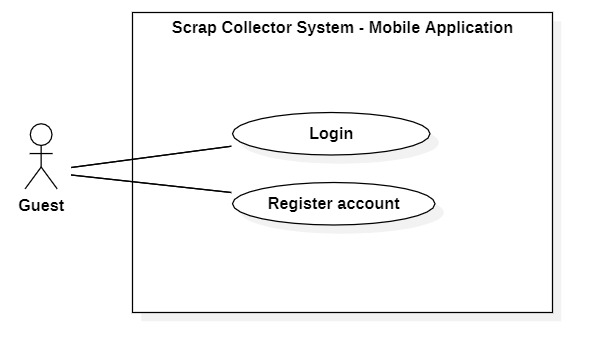
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Figure 1 - Guest Overview Use Case

* 1. **Login**

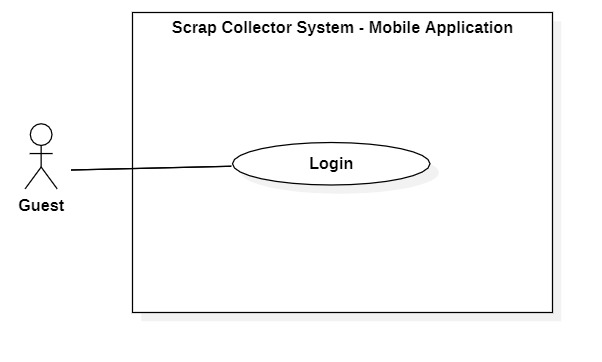
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Figure 2 - <Guest> Login

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| --- | --- | --- | --- |
| **USE CASE – SCHS\_UC\_1** | | | |
| **Use Case No.** | SCHS \_UC\_1 | **Use Case Version** | 1.0 |
| **Use Case Name** | Login | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Guest   **Summary:**   * Allow guest to log in the system.   **Goal:**   * Guest can log in the system with specific role.   **Triggers:**   * Guest sends login command.   **Preconditions:** N/A  **Post conditions:**   * Success: Guest is exactly authorized with specific role in the system. * Fail: System shows error messages.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Guest goes to login view. | System requires identity information from Guest:  - Email (required): text input.  - Password (required): text input. | | 2 | Guest inputs information. |  | | 3 | Guest presses “Đăng nhập” button. | Guest logins system with his specific role. [Exception 1] [Exception 2] |   **Alternative Scenario:**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows message the "Không có kết nối Internet" when the internet is lost. | | 2 | Guest enter wrong identity information. | System shows error message “Tên đăng nhâp hoặc mật khẩu không chính xác. Vui lòng thử lại”. |   **Relationships:** N/A  **Business Rules:**   * Password is encrypted before being sent to server. * After login to system, guest will be redirected to specific view based on their role on the system: homeowner, collector or admin. * If role is “Collector”, the system will display to Collector view. * If role is “Homeowner”, the system will display to Homeowner view. * If role is “Admin”, the system will display to Admin Dashboard view. | | | |

Table 1 <Guest> Login use case specification

* 1. **Register**

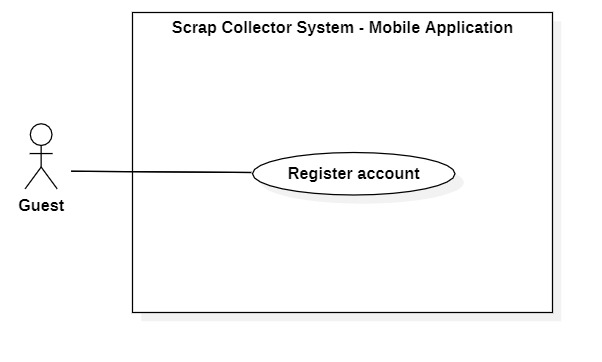
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Figure 3 - <Guest> Register account

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| **USE CASE – SCHS\_UC\_2** | | | |
| **Use Case No.** | SCHS \_UC\_2 | **Use Case Version** | 1.0 |
| **Use Case Name** | Register account | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Guest   **Summary:**   * Allow guest to create an account the system.   **Goal:**   * Guest can have an account in the system with specific role: Homeowner or Collector.   **Triggers:**   * Guest presses “Đăng kí tài khoản” button on Login screen.   **Preconditions:** N/A  **Post conditions:**   * Success: A new account is created with specific role in the system. * Fail: System shows error messages. Account is not created.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Guest goes to register view. | System requires identity information from Guest:  - Username (required): text input  - Email (required): text input must contain “@”.  - Password (required): text input with at least 6 characters.  - Confirm password (required): text input, must be same as Password.  - Phone number (required): text input with right phone number format.  - Address (required): text input or GPS location.  - Full name (required): text input.  - Role (required): ratio choice. | | 2 | Guest inputs full required information (Username, Email, Password, Confirmed Password, Phone number, Address, Full name and Role). |  | | 3 | Guest presses “Đăng kí” button. | A new account is created. Guest goes to home screen. [Exception 1] [Exception 2] [Exception 3] [Exception 4] [Exception 5] [Exception 6] [Exception 7] [Exception 8] [Exception 9] [Exception 10] [Exception 11] [Exception 12] [Exception 13] [Exception 14] |   **Alternative Scenario:**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows message the "Không có kết nối Internet" when the internet is lost. | | 2 | Guest let Username input empty | Focus in Username field. Show error message “Không để trống thông tin này” | | 3 |  | System focuses on Username field and show error message “Đã có người sử dụng tên đăng nhập này, vui lòng chọn tên đăng nhập khác” when the username is duplicated. | | 4 | Guest let Email input empty | Focus in Email field. Show error message “Không để trống thông tin này” | | 5 | Guest let Password input empty | Focus in Password field. Show error message “Không để trống thông tin này” | | 6 | Guest let Phone number input empty | Focus in Phone number field. Show error message “Không để trống thông tin này” | | 7 | Guest let Address input empty | Focus in Address field. Show error message “Không để trống thông tin này” | | 8 | Guest choose Address not in Viet Nam | Focus in Address field. Show error message “Địa chỉ không hợp lệ” | | 9 | Guest let Full name input empty | Focus in Full name field. Show error message “Không để trống thông tin này” | | 10 | Guest does not choose Role | Focus in Role field. Show error message “Vui lòng chọn vai trò” | | 11 | Guest let Password less than 6 letters | Focus in Password field. Show error message “Mật khẩu tối thiểu 6 kí tự”. | | 12 | Confirmed password is not same as Password, empty or less than 6 letters. | Focus in Confirm Password field. Show error message “Xác nhận mật khẩu không khớp”. | | 13 | Guest input wrong Email format | Focus in Email field. Show error message “Địa chỉ Email không hợp lệ” | | 14 | Guest input wrong Phone number format | Focus in Email field. Show error message “Số điện thoại không hợp lệ” |   **Relationships:** N/A  **Business Rules:**   * Password is encrypted before being sent to server. * Email must contain “@”. * Phone number must be in right format. * After register, the user will be logged in to the system and be redirected to home screen. * If user register with “Tôi muốn bán ve chai” choice, new account will be created with role: Homeowner. * If user register with “Tôi là người mua ve chai” choice, new account will be created with role: Collector. | | | |

Table 2 <Guest> Register use case specification

1. **<Homeowner> Overview Use Case**

**2.1 Post scrap**

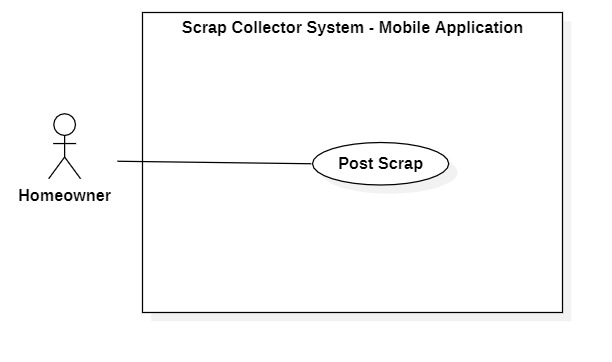
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Figure 4 - <Homeowner> Post scrap

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| **USE CASE – SCHS\_UC\_3** | | | |
| **Use Case No.** | SCHS \_UC\_3 | **Use Case Version** | 1.0 |
| **Use Case Name** | Post scrap | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Homeowner   **Summary:**   * Allow homeowner to post scrap for sale.   **Goal:**   * Homeowner post one or many scraps for sale in a post.   **Triggers:**   * User presses “Đăng bán” button.   **Preconditions:**   * User must be a homeowner   **Post conditions:**   * Success: A new post is created. * Fail: System shows error messages. Post is not created.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Homeowner goes to post scrap view. | System requires identity information from Homeowner:  - Title (required): text input  - Image (required): at least 1 image and at most 5 images  - Price: number  - Description: text input  - Category (required): selection  - Available time: selection  - Address: text input or GPS location  - Contact phone number: number | | 2 | Homeowner inputs full required information (Title, Image and Category).  [Alternative 1] |  | | 3 | Homeowner presses “Đăng bán” button. | A new scrap post is created. Homeowner goes to Scrap history view. [Exception 1] [Exception 2] [Exception 3] [Exception 4] [Exception 5] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Homeowner presses “Bán thêm” button | System requires identity information from Homeowner:  - Title (required): text input  - Image (required): at least 1 image  - Price: number  - Description: text input  - Category (required): selection |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows message the "Không có kết nối Internet" when the internet is lost. | | 2 | Homeowner let Title input empty | Focus in Title field. Show error message “Không để trống thông tin này”. | | 3 | Homeowner let Image empty | Focus in Image field. Show error message “Không để trống thông tin này”. | | 4 | Homeowner does not select Category | Focus in Category field. Show error message “Chọn loại ve chai”. | | 5 | Homeowner chooses Address not in Viet Nam | Focus in Address field. Show error message “Địa chỉ không hợp lệ” |   **Relationships:** N/A  **Business Rules:**   * Each scrap post can have one or many scrap. * Created post will have “Being sold” status. * If homeowner doesn’t input Price field, show price as “Giá thương lượng”. * If homeowner doesn’t select available time, show available time as “Liên hệ” * If homeowner doesn’t input address, get address from homeowner’s profile. * If homeowner doesn’t input contact number, get phone number from homeowner’s profile. * System records time of the post automatically. | | | |

Table 3 <Homeowner> Post scrap use case specification

1. **<Collector> Overview Use Case**

**3.1 Search near-by scrap**

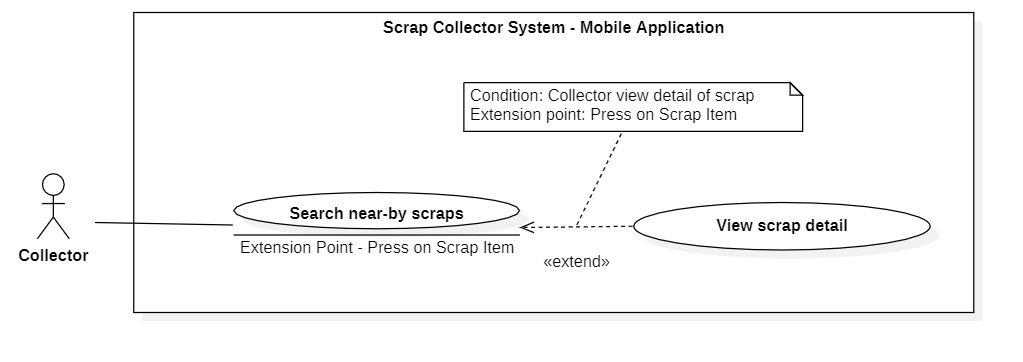
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Figure 5 - < Collector > Search near-by scrap

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| **USE CASE – SCHS\_UC\_4** | | | |
| **Use Case No.** | SCHS \_UC\_4 | **Use Case Version** | 1.0 |
| **Use Case Name** | Search near-by scrap | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Collector   **Summary:**   * Allow collector to find near-by scrap by radius, scrap category.   **Goal:**   * Collector can see near-by scrap post to book.   **Triggers:**   * Collector press “Home” icon in Tab Navigator.   **Preconditions:**   * User must login in the system with role “Collector” * Collector have registered his/her location.   **Post conditions:**   * Success: A list of scrap post is shown on screen. * Fail: System shows error messages.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Collector go to Home screen | System shows list of scrap posts in radius of 5km based on collector’s location, with any kind of category. [Alternative 1] [Alternative 2] [Exception 1] [Exception 2] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Collector select length of radius in “Phạm vi” selection | System searches scrap post with selected radius and shows search result | | 2 | Collector select type of scrap category in “Phân loại” selection | System searches scrap post with selected category and shows search result |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows message the "Không có kết nối Internet" when the internet is lost. | | 2 |  | System shows message the "Không thể tải được bản đồ" when the map API is lost. |   **Relationships:** [View scrap detail]  **Business Rules:**   * Only return scrap posts that have “Being sold” status | | | |

Table 4 <Collector > Search near-by scrap use case specification

**3.2 View Scrap detail**

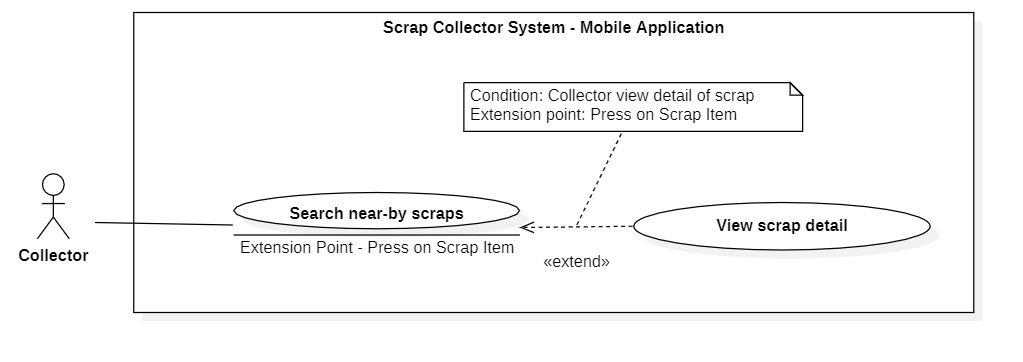
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Figure 6 - < Collector > View scrap detail

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| **USE CASE – SCHS\_UC\_** | | | |
| **Use Case No.** | SCHS \_UC\_ | **Use Case Version** | 1.0 |
| **Use Case Name** | View scrap detail | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Collector   **Summary:**   * Allow Collector to view scrap detail.   **Goal:**   * Collector views detail of the scrap then decide whether to buy or not.   **Triggers:**   * Collector presses the item of scrap.   **Preconditions:**   * User must login in the system with role “Collector”. * Collector search near-by scrap.   **Post conditions:**   * Success: A new post is created. * Fail: System shows error messages. Post is not created.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Collector press in the Item of scrap | System shows the detail of scrap with:   * Title * Price * Image * Category * Description * Available time * “Trả giá” button * “Gọi” button * “Chat” button * “Đặt lịch” button   [Exception 1] [Exception 2] |   **Alternative Scenario:**  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows error message the "Không có kết nối Internet" when the internet is lost. | | 2 |  | System shows error message the "Không thể tìm thấy bài đăng" when cannot find the post. |   **Relationships:** [Search near-by scrap]  **Business Rules:** | | | |

Table <Collector> View scrap detail use case specification

1. **<Admin> Overview Use Case**
2. **<Authorized User> Overview Use Case**

**5.1 <Authorized User> Logout**

Figure -<Authorized User> Logout

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| **USE CASE – SCHS\_UC\_** | | | |
| **Use Case No.** | SCHS \_UC\_ | **Use Case Version** | 1.0 |
| **Use Case Name** | Logout | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Authorized User   **Summary:**   * This use case allows the Authorized User to log out of the system.   **Goal:**   * The Authorized User logs out of the system successfully.   **Triggers:**   * User presses “Đăng xuất” button.   **Preconditions:**   * User has already logged in the system with the role that has been authorized.   **Post conditions:**   * Success: The Authorized User logs out of the system successfully, system moves to Login Screen. * Fail: System shows error messages.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The Authorized User presses on “Đăng xuất” button. | System clear the session of that Authorized User then shows Login screen. [Exception 1] |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows error message the "Không có kết nối Internet" when the internet is lost. |   **Relationships:** N/A  **Business Rules:**   * Only Authorized User can log out. * After the Authorized User logs out, clear all sessions of that user. | | | |

Table < Authorized User> Logout use case specification

**5.2 <Authorized User> View Profile**

Figure -<Authorized User> View profile

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| **USE CASE – SCHS\_UC\_** | | | |
| **Use Case No.** | SCHS \_UC\_ | **Use Case Version** | 1.0 |
| **Use Case Name** | View Profile | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Authorized User   **Summary:**   * Allow Authorized User to view his/her profile.   **Goal:**   * Authorized User views profile.   **Triggers:**   * User chooses “Hồ sơ” tab in tab navigation.   **Preconditions:**   * User has already logged in the system with the role that has been authorized.   **Post conditions:**   * Success: System shows Profile screen. * Fail: System shows error messages.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized User chooses “Hồ sơ” tab in tab navigation. | System shows Profile Screen with:   * Avatar * Name * Username * Code * Phone number * Address * “Chỉnh sửa hồ sơ” button * “Đăng xuất” button * “Xóa tài khoản” button   [Exception 1] |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows error message the "Không có kết nối Internet" when the internet is lost. |   **Relationships:** [Update profile] [Deactivate account]  **Business Rules:**   * Only Authorized User can view profile * Password mustn’t be shown | | | |

**5.3 <Authorized User> Update Profile**

Figure -<Authorized User> Update profile

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| **USE CASE – SCHS\_UC\_** | | | |
| **Use Case No.** | SCHS \_UC\_ | **Use Case Version** | 1.0 |
| **Use Case Name** | Update Profile | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Authorized User   **Summary:**   * Allow Authorized User to update his/her profile.   **Goal:**   * Authorized User updates profile.   **Triggers:**   * User presses “Chỉnh sửa hồ sơ” button in Profile screen.   **Preconditions:**   * User has already logged in the system with the role that has been authorized.   **Post conditions:**   * Success: System shows Update Profile screen. * Fail: System shows error messages.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized User presses “Chỉnh sửa hồ sơ” button in Profile screen. | System shows Update Profile Screen with:   * Avatar: image, editable * Full name: text, editable * Phone number: text, editable * Address: text, editable * Password: text, editable * Confirm password: text, editable * “Lưu chỉnh sửa” button * “Hủy” button | | 2 | Authorized User edit editable fields (Avatar, Name, Phone number, Address) |  | | 3 | Authorized User presses “Lưu chỉnh sửa” button. [Alternative 1] | System saves new information and shows Profile screen with new information. [Exception 1][Exception 2] [Exception 3][Exception 4] [Exception 5] [Exception 6] [Exception 7] [Exception 8] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Authorized User presses “Hủy” button. | System shows Profile screen. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows error message the "Không có kết nối Internet" when the internet is lost. | | 2 | Guest let Full name input empty | Focus in Full name field. Show error message “Không để trống thông tin này” | | 3 | Guest let Phone number input empty | Focus in Phone number field. Show error message “Không để trống thông tin này” | | 4 | Guest let Address input empty | Focus in Address field. Show error message “Không để trống thông tin này” | | 5 | Guest choose Address not in Viet Nam | Focus in Address field. Show error message “Địa chỉ không hợp lệ” | | 6 | Guest let Password less than 6 letters | Focus in Password field. Show error message “Mật khẩu tối thiểu 6 kí tự”. | | 7 | Confirmed password is not same as Password, empty or less than 6 letters. | Focus in Confirm Password field. Show error message “Xác nhận mật khẩu không khớp”. | | 8 | Guest input wrong Phone number format | Focus in Email field. Show error message “Số điện thoại không hợp lệ” |   **Relationships:** [View profile]  **Business Rules:**   * Only Authorized User can update profile * Password mustn’t be shown * Phone number must be in the phone number format | | | |

**5.4 <Authorized User> De-activate account**

Figure -<Authorized User> De-activate account

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| **USE CASE – SCHS\_UC\_** | | | |
| **Use Case No.** | SCHS \_UC\_ | **Use Case Version** | 1.0 |
| **Use Case Name** | Deactivate account | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Authorized User   **Summary:**   * Allow Authorized User to deactivate his/her account.   **Goal:**   * Authorized User deactivate account.   **Triggers:**   * User presses “Xóa tài khoản” button in tab navigation.   **Preconditions:**   * User has already logged in the system with the role that has been authorized.   **Post conditions:**   * Success: System shows Success message. * Fail: System shows error messages.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized User presses “Xóa tài khoản” button in Profile screen. | System shows Confirmation pop up with:   * “Bạn cần nhập password để xác nhận xóa tài khoản” Message * Password: text input * “Xác nhận” button * “Hủy” button | | 2 | User inputs Password and presses “Xác nhận” button. [Alternative 1] | System checks password and deactivate account. [Exception 1] [Exception 2] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | User presses “Hủy” button. | System shows back Profile screen. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  | System shows error message the "Không có kết nối Internet" when the internet is lost. | | 2 | User inputs wrong password. | System shows error message the "Mật khẩu không chính xác" |   **Relationships:** [View profile]  **Business Rules:**   * Only Authorized User can deactivate account * Password must be encrypted before being sent to the server. * The account of that user should be saved in database and is masked as “is deleted”. | | | |

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| **USE CASE – SCHS\_UC\_** | | | |
| **Use Case No.** | SCHS \_UC\_ | **Use Case Version** | 1.0 |
| **Use Case Name** | Post scrap | | |
| **Author** | Nguyen Duy Dat | | |
| **Date** | 26/1/2020 | **Priority** | Normal |
| **Actor:**   * Homeowner   **Summary:**   * Allow homeowner to post scrap for sale.   **Goal:**   * Homeowner post one or many scraps for sale in a post.   **Triggers:**   * User presses “Đăng bán” button.   **Preconditions:**   * User must be a homeowner   **Post conditions:**   * Success: A new post is created. * Fail: System shows error messages. Post is not created.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 |  |  | | 2 |  |  | | 3 |  |  |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  |  |   **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 |  |  | | 2 |  |  |   **Relationships:** N/A  **Business Rules:**   * Each scrap post can have one or many scrap. | | | |

Table < > use case specification