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| Logo_FPT_University_doc | **MINISTRY OF EDUCATION AND TRAINING** |

**FPT UNIVERSITY**

**BOOKAHOLIC**

**SOCIAL NETWORK**

**<BSN>**

**Software Requirement Specification**

|  |  |
| --- | --- |
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| **Project Code** | BSN |

- Hanoi, 11/2016 -

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**RECORD OF CHANGE**

\*A-Added; M-Modified; D-Deleted

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Effective Date** | **Change Items** | **A\*M, D** | **Change Description** | **New Version** |
| 11/25/2016 |  | A | Create file | 1.0 |
|  |  |  |  |  |

*Table 1: Record of change*

**SIGNATURE PAGE**

|  |  |  |
| --- | --- | --- |
| **ORIGINATOR** | Chu Minh Hai |  |
|  | Developer |  |
|  |  |  |
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|  |  |  |

# SOFTWARE REQUIREMENTS SPECIFICATION

# Introduction

## Purposes

This is the Software Requirements Specification for the BSN system. This document will provide the describing of general requirement and non-functional requirements of our BSN system. The BSN is designed to be a social network website that help users sharing their thought, their feeling about the book they had read and connect people love book together. These requirements will assure that the system will correctly and reliably perform its intended functionality. This specification will provide general, as well as specific requirements to be used in the design, testing and validation of the system. It is intended for both stakeholders and the project team of the system.

## Definition and Acronyms

This section describes the definitions, terms, and acronyms that are used in software requirements specification.

|  |  |
| --- | --- |
| Items | Description |
| BSN | Bookaholic Social Network |
| UC | Use Case |

Table 2: Definition and Acronyms

# System Purpose

Our project – BSN will include some main functions of existing social networks and add some new features such as create group, chat with the other by send messenger. With our hope, we want to make an environment for all who love book. People can make new friends by join in groups, share their favorite books and have new experiences together. We hope we can share all we have, and we hope people who loves book can be connected and easily share their recommendation about books.

# Scope

The scope of this project contains: Requirement Analysis, Design, Coding and Testing (Unit Test, Integration Test, and System Test)

# Overall Description

## System overview

<Tổng quan về hệ thống>

## Product Features

|  |  |  |  |
| --- | --- | --- | --- |
| **UC No.** | **Group of functions** | **Functions** | **Glossary** |
| **READER/AUTHOR MODULE** | | | |
| UC001 | Manage account | Login by registered account | Login system by registered account |
| UC002 | Logout | Logout system |
| UC003 | Register for a normal account | Registered for a normal account |
| UC004 | Register for an author account | Registered for an author account |
| UC005 | Edit profile | Edit personal profile |
| UC006 | Reset password | Reset password |
| UC007 | Manage recommendation | Post a recommendation | Post a recommendation about a book: User have to tag a book or an author as post’s title. |
| UC008 | Edit caption | Edit post’s caption |
| UC009 | Edit book tag | Chỉnh sửa tag sách đi kèm với bài post |
| UC010 | Delete recommendation | Xóa bài đăng |
| UC011 | Like recommendation | Thích một bài đăng |
| UC012 | Share recommendation | Chia sẻ một bài đăng |
| UC013 | Manage comment | Comment on a recommendation/ post | Bình luận về một bài post |
| UC014 | Edit comment | Chỉnh sửa bình luận |
| UC015 | Delete comment | Xóa bình luận |
| UC016 | Like a comment | Thích một bình luận |
| UC017 | Interact with other accounts | Follow other account | Theo dõi một tài khoản khác |
| UC018 | Send message to other account | Gửi tin nhắn đến một tài khoản khác |
| UC019 | Report other account | Báo cáo vi phạm về một tài khoản khác |
| UC020 | Interact with groups | Send join-group request | Gửi yêu cầu tham gia vào một nhóm: Sau khi người dùng gửi yêu cầu, sẽ phải chờ quản trị viên của nhóm đó đồng ý yêu cầu vào nhóm. |
| UC021 | Out a group | Ra khỏi một nhóm |
| UC022 | Report a group | Báo cáo vi phạm về một nhóm |
| UC023 | Manage group | Create a group | Tạo nhóm: Người dùng tạo nhóm phải tag một quyển sách/tác giả như là chủ đề của nhóm đó |
| UC024 | Edit group profile | Chỉnh sửa thông tin về nhóm |
| UC025 | Manage group members | Add new members by enter account name | Thêm thành viên vào nhóm bằng cách nhập tên tài khoản |
| UC026 | Add new members by accept join-group request | Thêm thành viên vào nhóm bằng cách chấp nhận yêu cầu xin vào nhóm của thành viên đó |
| UC027 | Set another member admin | Cấp quyền quản trị cho thành viên khác |
| UC028 | Remove members | Loại một thành viên ra khỏi nhóm |
| UC029 | Manage group post | Create group posts | Đăng bài trong group: Người dùng không cần tag sách/tác giả |
| UC030 | Edit group posts | Chỉnh sửa bài đăng trong nhóm |
| UC031 | Delete group posts | Xóa bài đăng trong nhóm |
| UC032 | Rate a book | Bình chọn cho một cuốn sách |
| UC033 | Search book | Tìm kiếm sách |
| UC034 | Search author | Tìm kiếm tác giả |
| UC035 | Search other account | Tìm kiếm người dùng khác |
| UC036 | Suggest book | Giới thiệu sách cho người dùng: Dựa trên danh sách những sách họ bình chọn |
| UC037 | Suggest author | Giới thiệu tác giả cho người dùng: Dựa trên danh sách những tác giả đang theo dõi |
| **ADMIN MODULE** | | | |
| UC038 | Manage user account | Search user | Tìm kiếm người dùng |
| UC039 | Ban user | Cấm người dùng |
| UC040 | Unban user | Gỡ bỏ lệnh cấm |
| UC041 | Delete user | Xóa người dùng |
| UC042 | Decline request about reporting an account | Hủy yêu cầu về báo cáo tài khoản vi phạm |
| UC043 | Decline request about reporting a group | Hủy yêu cầu về báo cáo nhóm vi phạm |
| UC044 | Accept request about creating author account | Chấp nhận cầu về lập tài khoản tác giả |
| UC045 | Decline request about creating author account | Hủy yêu cầu về lập tài khoản tác giả |
| UC046 | Manage book | Add new book | Thêm sách |
| UC047 | Edit book's information | Chỉnh sửa thông tin sách |
| UC048 | Approve requests about adding a book |  |
| UC049 | Decline requests about adding a book | Chấp nhận/hủy yêu cầu về thêm sách mới |
| UC050 | Manage slides | Add new slides | Thêm slide ảnh |
| UC051 | Delete slides | Xóa slide ảnh |
| UC052 | Active a slide | Kích hoạt/hủy kích hoạt slide ảnh |
| UC053 | Deactivate a slide |  |
| UC054 | Show slides | Hiển thị các slide trên trang giới thiệu |
| UC055 | Edit index of slides | Thay đổi thứ tự hiển thị slider ảnh trên trang giới thiệu |
| UC056 | Manage publisher | Add new publishers | Thêm nhà xuất bản |
| UC057 | Edit publishers' information | Chỉnh sửa thông tin nhà xuất bản |
| UC058 | Delete publisher | Xóa nhà xuất bản |
| UC059 | View statistics | View statistic about users | Xem thông tin thống kê về người dùng thường: số lượng tài khoản cũ, số lượng tài khoản đăng ký mới, ... |
| UC060 | View statistic about authors | Xem thông tin thống kê về tác giả: số lượng tài khoản cũ, số lượng tài khoản đăng ký mới, các tác giả đang được quan tâm nhất, … |
| UC061 | View statistic about groups | Xem thông tin thống kê về các nhóm: số lượng nhóm cũ, số lượng nhóm mới đăng ký, tần suất hoạt động của nhóm, … |
| UC062 | View statistic about books | Xem thông tin thống kê về sách: số lượng sách trong database, số lượng sách được thêm mới, những quyển sách đang được người dùng quan tâm nhất, … |
| UC063 | View statistic about access times | Xem thông tin thống kê lượt truy cập |
| UC064 | Manage Group | Band a group | cấm 1 nhóm |
| UC065 | Unban a group | gỡ bỏ lệnh cấm nhóm |

Table 3: Product Features

## User Characteristics

This social networking website towards those who love books, looking for a website to share their thought, finding groups where have people love book like them, recommend books they have read and making friends. There are two main actors that system support:

* **Readers & Authors:** Have account on system, they can use many functions of website. For example: Searching, posting, rating, connect to friends, etc.
* **Administrators:** They have an Administrator control panel to manage all configurations of system

## User Documentation

<Yêu cầu về tài liệu cho người dùng>

## Assumption

* Receive the guidance and good support from teacher.
* No member in group get sick in the software development process.
* In the development process, no device get fail.
* Every report meets the deadline.
* Team members do not conflict in the work process.

# Entity Relation Model

## Entity-Relationship Diagram

<Khái quát sơ đồ quan hệ các thực thể trong hệ thống>

## Entity Detail

<Mô tả chi tiết cho từng thực thể>

# Functional Specification

## Business Rules

|  |  |
| --- | --- |
| **#** | **Rule Description** |
| BR01 |  |
| BR02 |  |

## Manage account

### UC001: Login

#### Use Case Diagram

<Sơ đồ Use-Case của 1 Use-Case>

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC001 | **Version** | 1.0 |
| **Use Case Name** | | Login by registered account | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | Registered User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows registered user login to the website | | |
| **Preconditions:** | | 1. Account Register must be existed and correct. 2. Display login-register page. | | |
| **Trigger:** | | Click Login button (“Đăng nhập”) | | |
| **Post conditions:** | | 1. Validate account success 2. Display home page as normal user or author’s interface. | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Enter BSN location on browser | | |
|  | BSN | Display login-register page includes:   * Email textbox * Password textbox * Login button: “Đăng nhập” * Forgot password hyperlink: “Bạn quên?” * Account name textbox on register form * Email textbox on register form * Password textbox on register form * Confirm password textbox on register form * Author register hyperlink: “Tác giả đăng ký” * Sign up button: “Đăng ký” | | |
|  | User | Enters email and password | | |
|  | User | Click “Đăng nhập” button | | |
|  | BSN | Logs user into system | | |
|  | BSN | Display home page as normal user or author’s interface. | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 4 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Redirects user to chosen hyperlink or button |
|  | | |
| **AT2** | At step 4 in the main flows**,** if BSN failed to validate user name & password | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Display Login page with message ID#### |
|  | | |
| **Exceptions:** | | |
| **EC1** | At step 3 in main flow, if user entered wrong email or password. | |
| **Step** | **Actor** | **Action** |
| 3.1 | BSN | Display Login popup message with ID MSG14 |
|  | | |

### UC002: Logout

#### Use Case Diagram

<Sơ đồ Use-Case của 1 Use-Case>

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC002 | **Version** | 1.0 |
| **Use Case Name** | | Logout | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | Registered User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows users to logout the website | | |
| **Preconditions:** | | 1. User logged in to system | | |
| **Trigger:** | | User click “Đăng xuất” on dropdown list from setting icon in navigation bar | | |
| **Post conditions:** | | 1. Log user out from system. 2. Display login-register page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Click “Đăng xuất” button | | |
|  | BSN | Display login-register page | | |

#### Alternative Flows

|  |
| --- |
| **N/A** |
| **Exceptions: N/A** |

### UC003: Register for a normal account

#### Use case diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC003 | **Version** | 1.0 |
| **Use Case Name** | | Register for a normal account | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | Guest | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function is used for guests who want to create an account for our page. | | |
| **Preconditions:** | | 1. Guest are viewing Login-register page 2. Enter information in register form | | |
| **Trigger:** | | Click on register button on the website | | |
| **Post conditions:** | | Confirm mail has sent to guest’s email. | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Enter BSN website | | |
|  | BSN | Display Login-register page includes:   * Email textbox * Password textbox * Login button: “Đăng nhập” * Forgot password hyperlink: “Bạn quên?” * Account name textbox on register form * Email textbox on register form * Password textbox on register form * Author registers hyperlink: “Tác giả đăng ký” * Sign up button: “Đăng ký” | | |
|  | User | Enter information in register form on website | | |
|  | User | Click “Đăng ký” button | | |
|  | BSN | Send confirm email | | |
|  | User | Follow guide in confirm email | | |
|  | BSN | Confirm account | | |
|  | BSN | Redirects user to Login-register page | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 4 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Step** |
| 4.1 | BSN | Redirects user to chosen hyperlink or button |
|  | | |
| **Exceptions:** | | |
| **EC1** | At step 4, required fields are not entered | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Display Login-register page with message: with ID MSG5 |
| 4.1 | BSN | Mark error fields |
|  | | |
| **EC2** | At step 4, fields are entered with wrong type of data | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Display Login-register page with message: with ID MSG6 |
| 4.2 | BSN | Mark error fields |

### UC004: Register for an author account

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC004 | **Version** | 1.0 |
| **Use Case Name** | | Register for an author account | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | Guest | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use for guest register as an author. They have to send their identification image to prove themselves | | |
| **Preconditions:** | | 1. Display Author register page 2. Enter information in author register form | | |
| **Trigger:** | | Click on register button on the website | | |
| **Post conditions:** | | Confirm mail has sent to guest’s email | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Enter BSN website | | |
|  | User | Click “Tác giả đăng ký” hyperlink | | |
|  | BSN | Display Author register page includes:   * Email textbox * Password textbox * Login button: “Đăng nhập” * Forgot password hyperlink: “Bạn quên?” * Account name textbox on register form * Email textbox on register form * Password textbox on register form * Choose file button * Sign up button: “Đăng ký” | | |
|  | User | Enter information in register form on website and upload an identification image | | |
|  | User | Click “Đăng ký” button | | |
|  | BSN | Send confirm email | | |
|  | User | Follow guide in confirm email | | |
|  | BSN | Confirm account | | |
|  | BSN | Redirects user to Login-register page | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 5 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Redirects user to chosen hyperlink or button |
|  | | |
| **Exceptions:** | | |
| **EC1** | At step 5, required fields are not entered | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Display Login-register page with message: with ID MSG5 |
| 5.2 | BSN | Mark error fields |
|  | | |
| **EC2** | At step 5, fields are entered with wrong type of data | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Display Login-register page with message: with ID MSG6 |

### UC005: Edit profile

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC005 | **Version** | 1.0 |
| **Use Case Name** | | Edit profile | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use for User when they want to change their information | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | User click “Chỉnh sửa thông tin” hyperlink while in home page then click save button (“Lưu”) | | |
| **Post conditions:** | | Updated information display in edit profile page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Click “Chỉnh sửa thông tin” hyperlink while in home page | | |
|  | BSN | Display Edit profile page includes:   * Navigation bar * User profile panel * Side bars * User’s information | | |
|  | BSN | Display user’s information and editable text box | | |
|  | User | Modifies fields | | |
|  | User | Click “Lưu” button | | |
|  | BSN | Display home page (chờ update) with updated information | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 4 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Redirects user to chosen hyperlink or button |
|  | | |
| **Exceptions:** | | |
| **EC1** | At step 5, fields are entered with wrong type of data | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Display Edit profile page with message: with ID MSG6 |
| 5.2 | BSN | Mark error fields |
|  |  |  |
| **EC2** | At step 5, fields are null | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Disable “Lưu” button |
|  |  |  |

### UC006: Reset password

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC006 | **Version** | 1.0 |
| **Use Case Name** | | Reset password | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use for reset user’s password whenever they forgot. | | |
| **Preconditions:** | | 1. User’s account must be existed and correct. 2. User browsed BSN website | | |
| **Trigger:** | | Click “Bạn quên?” hyperlink in Login-register page | | |
| **Post conditions:** | | Reset password has sent to user’s email | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Click “Bạn quên?” hyperlink in Login-register page | | |
|  | BSN | Display reset password popup included:   * Email text box * “Gửi” and “Đóng” buttons | | |
|  | User | Enter registered email | | |
|  | User | Click “Gửi” button | | |
|  | BSN | Sends reset password email | | |
|  | BSN | Close popup | | |
|  | User | Follow guide in email | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 3 in the main flow, user clicks on “Đóng” button | |
| **Step** | **Actor** | **Action** |
| 3.1 | BSN | Close pop-up |
|  |  |  |
| **AT2** | At step 4 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Redirects user to chosen hyperlink or button |
|  | | |
| **Exceptions:** | | |
| **EC1** | At step 4, entered email is invalid or does not exist in database | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Displays popup with message: with ID MSG15 |
|  | | |

## Manage recommedation

### UC007: Post a recommendation

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC007 | **Version** | 1.0 |
| **Use Case Name** | | Post a recommendation | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user (includes Reader and Author) post a recommendation | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Đăng” button on recommendation area | | |
| **Post conditions:** | | New recommendation displays on home page or personal page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Enter Home page or Personal page | | |
|  | User | Click “Bạn đang nghĩ gì” text area and enter a recommendation | | |
|  | User | Click “Gắn thẻ sách” button | | |
|  | BSN | Display popup | | |
|  | User | Click “Nhập thẻ sách” input and enter book’s name or author’s name | | |
|  | BSN | Search book’s name or author’s name in database then show results | | |
|  | User | Choose a tag | | |
|  | User | Click “Đăng” button | | |
|  | BSN | Displays new recommendation on home page or personal page | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
|  | | |
| **AT1** | At step 7 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 7.1 | BSN | Redirects user to chosen hyperlink or button |
|  | | |
| **Exceptions:** | | |
| **EC1** | At step 8, book’s tag does not chosen | |
| **Step** | **Actor** | **Action** |
| 8.1 | BSN | Display viewing page with message: with ID MSG5 |
| 8.2 | BSN | Mark error fields |
|  | | |
| **EC2** | At step 6, BSN system cannot search any book or author | |
| **Step** | **Actor** | **Action** |
| 6.1 | BSN | Display viewing page with message: with ID MSG6 |
| 6.2 | BSN | Mark error fields |

### UC008: Edit caption

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC008 | **Version** | 1.0 |
| **Use Case Name** | | Edit caption | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function is used when user (includes Reader and Author) want to edit caption of posted recommendation | | |
| **Preconditions:** | | User is viewing their own recommendation | | |
| **Trigger:** | | Click “Sửa” hyperlink on angle-down icon at top-right of the post | | |
| **Post conditions:** | | Caption has changed | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Viewing personal’s recommendation | | |
|  | User | Click “Sửa” hyperlink on angle-down icon at top-right of the post | | |
|  | BSN | Display recommendation with text area and book’s tag editable | | |
|  | User | Modifies caption | | |
|  | User | Click “Đăng” button | | |
|  | BSN | Changes caption | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 4 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **AT2** | At step 5 in the main flows, if caption is null | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Disable “Đăng” button |
|  | | |
| **Exceptions:** | | |

### UC009: Edit book’s tag

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC009 | **Version** | 1.0 |
| **Use Case Name** | | Edit book’s tag | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user (includes Reader and Author) edits book’s tag | | |
| **Preconditions:** | | 1. User is viewing their recommendation | | |
| **Trigger:** | | Click “Sửa” hyperlink on angle-down icon at top-right of the post | | |
| **Post conditions:** | | Book’s tag has changed | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Viewing personal’s recommendation | | |
|  | User | Click “Sửa” hyperlink on angle-down icon at top-right of the post | | |
|  | BSN | Display recommendation with text area and book’s tag editable | | |
|  | User | Modifies book’s tag | | |
|  | User | Click “Đăng” button | | |
|  | BSN | Changes book’s tag | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 4 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **Exceptions:** | | |
| **EC1** | At step 4, BSN system cannot search any book or author | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Display viewing page with message: with ID MSG6 |
| 4.2 | BSN | Mark error fields |
|  | | |
| **EC2** | At step 5, book’s tag does not chosen | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Disable “Đăng” button |
|  | | |

### UC010: Delete recommendation

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC010 | **Version** | 1.0 |
| **Use Case Name** | | Delete recommendation | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use to remove a recommendation | | |
| **Preconditions:** | | User is viewing their recommendation | | |
| **Trigger:** | | Click “Xóa” hyperlink on angle-down icon at top-right of the post | | |
| **Post conditions:** | | Recommendation has removed from home page or personal page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Viewing personal’s recommendation | | |
|  | User | Click “Xóa” hyperlink on angle-down icon at top-right of the recommendation | | |
|  | BSN | Display “Bạn muốn xóa bài viết” popup | | |
|  | User | Click “Có” button | | |
|  | BSN | Delete chosen post | | |
|  | BSN | Refresh viewing page in real-time | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 3 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 3.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **AT2** | At step 2 in the main flows, if user click close icon | |
| **Step** | **Actor** | **Action** |
| 2.1 | BSN | Close popup |
|  |  |  |
| **Exceptions: N/A** | | |

### UC011: Like post

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC011 | **Version** | 1.0 |
| **Use Case Name** | | Like post | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use to like a post | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Thích” button below a post | | |
| **Post conditions:** | | Display “Thích” button in liked status and number of “like” increase | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Viewing a post | | |
|  | User | Click “Like” button below caption | | |
|  | BSN | Display post has liked | | |

#### Alternative Flows

|  |
| --- |
| **N/A** |
| **Exceptions: N/A** |

### UC012: Share recommedation

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC012 | **Version** | 1.0 |
| **Use Case Name** | | Share recommendation | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use to share a recommendation | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Chia sẻ” button below a recommendation | | |
| **Post conditions:** | | Recommendation has shared and displayed on personal page | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Viewing a post | | |
|  | User | Click “Share” button below caption | | |
|  | BSN | Display popup includes:   * Text area to enter caption * Chosen post * “Đăng” button | | |
|  | User | Enter caption and click “Đăng” button | | |
|  | BSN | Share chosen post on personal page | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 4 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **AT2** | At step 4 in the main flows, if user click close icon | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Close popup |
|  |  |  |
| **Exceptions:** | | |

## Manage comment

### UC013: Comment on a post

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC013 | **Version** | 1.0 |
| **Use Case Name** | | Comment on a recommendation/ post | | |
| **Created by:** | | HaiCM | **Date Created:** | 23/11/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function is used to comment on a recommendation/ post | | |
| **Preconditions:** | | 1. User logged in BSN website | | |
| **Trigger:** | | Press enter button after enter a comment | | |
| **Post conditions:** | | Display comment below recommendation or post | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Click “Viết bình luận” text area below caption | | |
|  | User | Enter a comment | | |
|  | User | Press Enter button | | |
|  | BSN | Display recommendation or post with comment | | |

#### Alternative Flows

|  |
| --- |
| **N/A** |
| **Exceptions: N/A** |

### UC014: Edit comment

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC014 | **Version** | 1.0 |
| **Use Case Name** | | Edit comment | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use to edit a comment | | |
| **Preconditions:** | | 1. User logged in BSN website | | |
| **Trigger:** | | Click “Sửa” hyperlink on pencil icon at right of comment | | |
| **Post conditions:** | | Comment has changed | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Click “Sửa” hyperlink on pencil icon at right of comment | | |
|  | BSN | Display comment with editable text area. | | |
|  | User | Edit comment | | |
|  | User | Click “Đăng” button | | |
|  | BSN | Display edited comment | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 4 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **AT2** | At step 4 in the main flows, if user click close icon | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Close popup |
|  |  |  |
| **Exceptions:** | | |
| **EC1** | At step 4 in the main flows, if text area is null | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Disable “Đăng” button |
|  |  |  |

### UC015: Delete comment

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC015 | **Version** | 1.0 |
| **Use Case Name** | | Delete comment | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use to delete a comment | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Xóa” hyperlink on pencil icon at right of comment | | |
| **Post conditions:** | | Comment has changed | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Click “Xóa” hyperlink on pencil icon at right of comment | | |
|  | BSN | Display “Bạn muốn xóa bình luận” popup | | |
|  | User | Click “Có” button | | |
|  | BSN | Delete chosen post | | |
|  | BSN | Refresh viewing page in real-time | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 1 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 1.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **AT2** | At step 2 in the main flows, if user click close icon | |
| **Step** | **Actor** | **Action** |
| 2.1 | BSN | Close popup |
|  |  |  |
| **Exceptions: N/A** | | |

### UC016: Like a comment

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC016 | **Version** | 1.0 |
| **Use Case Name** | | Like a comment | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function use to like a comment | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Thích” button below a comment | | |
| **Post conditions:** | | Display “Thích” button in liked status and number of “like” increase. | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Viewing a comment | | |
|  | User | Click “Like” button below a comment | | |
|  | BSN | Display comment has liked | | |

#### Alternative Flows

|  |
| --- |
| **N/A** |
| **Exceptions: N/A** |

## Interact with other account

### UC017: Follow other account

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC017 | **Version** | 1.0 |
| **Use Case Name** | | Follow other account | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user can follows the other and get update their actions like: posting, etc. | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Theo dõi” button in another user’s personal page | | |
| **Post conditions:** | | Display “Theo dõi” button change to “Đã theo dõi” button | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to another user’s personal page | | |
|  | BSN | Display other’s personal page includes:   * Navigation bar * Personal panel * Side bars * Recommendation area | | |
|  | User | Click “Theo dõi” button in other’s personal panel | | |
|  | BSN | Display “Theo dõi” button change to “Đã theo dõi” button | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 3 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 3.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **Exceptions: N/A** | | |

### UC018: Send message to other account

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC018 | **Version** | 1.0 |
| **Use Case Name** | | Send message to other account | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user send message to the other and receive message from them | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Nhắn tin” button in another user’s personal page | | |
| **Post conditions:** | | Display message popup | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to another user’s personal page | | |
|  | BSN | Display other’s personal page includes:   * Navigation bar * Personal panel * Side bars * Recommendation area | | |
|  | User | Click “Nhắn tin” button in other’s personal panel | | |
|  | BSN | Display message popup | | |
|  | User | Enter message and press enter button on keyboard | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 1 in the main flows, if user has sent message with someone before | |
| **Step** | **Actor** | **Action** |
| 1.1 | User | Click message icon on navigation bar |
| 1.2 | BSN | Display dropdown list with list of chatted accounts |
| 1.3 | User | Choose an account |
| **Exceptions: N/A** | | |

### UC019: Report other account

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC019 | **Version** | 1.0 |
| **Use Case Name** | | Report other account | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user report the other | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Báo cáo” button in another user’s personal page | | |
| **Post conditions:** | |  | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to another user’s personal page | | |
|  | BSN | Display other’s personal page includes:   * Navigation bar * Personal panel * Side bars * Recommendation area | | |
|  | User | Click “Báo cáo” button in other’s personal panel | | |
|  | BSN | Display popup with list of radio button includes:   * List of reasons * Text field to enter another reason | | |
|  | User | Choose a reason and click “Gửi” button | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 2 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 2.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **AT2** | At step 4 in the main flows, if user click close icon | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Close popup |
|  |  |  |
| **Exceptions:** | | |
| **EC1** | At step 5 in the main flows, if user want to report by enter another reason but text field is null | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Disable “Gửi” button |
|  |  |  |

## Interact with groups

### UC020: Send join-group request

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC020 | **Version** | 1.0 |
| **Use Case Name** | | Send join-group request | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user send request to join a group | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Tham gia” button in group page | | |
| **Post conditions:** | | Display “Tham gia” button change to “Đã gửi yêu cầu” button | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to group page | | |
|  | BSN | Display group page includes:   * Navigation bar * Group’s panel * Side bars * Posts area | | |
|  | User | Click “Tham gia” button in group’s panel | | |
|  | BSN | Display “Tham gia” button change to “Đã gửi yêu cầu” button | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 3 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 3.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **Exceptions: N/A** | | |

### UC021: Out a group

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC021 | **Version** | 1.0 |
| **Use Case Name** | | Out a group | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user out a group | | |
| **Preconditions:** | | 1. User logged in BSN website 2. User joined a group | | |
| **Trigger:** | | Click “Rời nhóm” button in group page | | |
| **Post conditions:** | | Display “Rời nhóm” button change to “Tham gia” button | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to group page | | |
|  | BSN | Display group page includes:   * Navigation bar * Group’s panel * Side bars * Posts area | | |
|  | User | Click “Rời nhóm” button in group’s panel | | |
|  | BSN | Display “Rời nhóm” button change to “Tham gia” button | | |

#### Alternative Flows

|  |
| --- |
| **N/A** |
| **Exceptions: N/A** |

### UC022: Report a group

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC022 | **Version** | 1.0 |
| **Use Case Name** | | Report a group | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user report a group | | |
| **Preconditions:** | | 1. User logged in BSN website 2. User has joined a group | | |
| **Trigger:** | | Click “Báo cáo” button in group page | | |
| **Post conditions:** | |  | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to group page | | |
|  | BSN | Display other’s personal page includes:   * Navigation bar * Group’s panel * Side bars * Posts area | | |
|  | User | Click “Báo cáo” button in group’s panel | | |
|  | BSN | Display popup with list of radio button includes:   * List of reasons * Text field to enter another reason | | |
|  | User | Choose a reason and click “Gửi” button | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 2 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 2.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **AT2** | At step 4 in the main flows, if user click close icon | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Close popup |
|  |  |  |
| **Exceptions:** | | |
| **EC1** | At step 5 in the main flows, if user want to report by enter another reason but text field is null | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Disable “Gửi” button |
|  |  |  |

## Manage group

### UC023: Create a group

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC023 | **Version** | 1.0 |
| **Use Case Name** | | Create a group | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user create a group | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Tạo nhóm” hyperlink in home page | | |
| **Post conditions:** | | New group has created | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to home page | | |
|  | BSN | Display home page includes:   * Navigation bar * Side bars * Posts area | | |
|  | User | Click “Tạo nhóm” button in home page | | |
|  | BSN | Display popup includes:   * Group name text box | | |
|  | User | Enter information and click “Tạo” button | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 2 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 2.1 | BSN | Redirects user to chosen hyperlink or button |
|  |  |  |
| **AT2** | At step 4 in the main flows, if user click close icon | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Close popup |
|  |  |  |
| **Exceptions:** | | |
| **EC1** | At step 5 in the main flows, if any text box is null | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Disable “Tạo” button |
|  |  |  |

### UC024: Edit group profile

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC024 | **Version** | 1.0 |
| **Use Case Name** | | Edit group profile | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user to edit group profile | | |
| **Preconditions:** | | User logged in BSN website | | |
| **Trigger:** | | Click “Cài đặt” button in group page then click “Lưu” button after change group’s information | | |
| **Post conditions:** | | Display updated group’s information | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to group page | | |
|  | BSN | Display group page includes:   * Navigation bar * Group’s panel * Side bars * Posts area | | |
|  | User | Click “Cài đặt” button in home page | | |
|  | BSN | Display edit group profile page includes:   * Navigation bar * Group’s panel * Side bar * Information area | | |
|  | User | Enter information and click “Lưu” button | | |
|  | BSN | Display updated group’s information | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 2 in the main flows, if user click other hyperlinks or buttons | |
| **Step** | **Actor** | **Action** |
| 2.1 | BSN | Redirects user to chosen hyperlink or button |
|  | | |
| **Exceptions:** | | |
| **EC1** | At step 5 in the main flows, if any text box is null | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Disable “Tạo” button |
|  |  |  |
| **EC1** | At step 5 in the main flows, if any text box is entered wrong type of data | |
| **Step** | **Actor** | **Action** |
| 5.1 | BSN | Disable “Tạo” button |
|  |  |  |

## Manage group members

### UC025: Add new member by enter account name

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC025 | **Version** | 1.0 |
| **Use Case Name** | | Add new member by enter account name | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User as an admin of group | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user as an admin of group to add new member by enter account name | | |
| **Preconditions:** | | 1. User logged in BSN website 2. User is an admin of group | | |
| **Trigger:** | |  | | |
| **Post conditions:** | | New member has added in group | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to group page | | |
|  | BSN | Display group page includes:   * Navigation bar * Group’s panel * Side bars * Posts area | | |
|  | User |  | | |
|  | BSN | Display list account name | | |
|  | User | Choose an account name | | |
|  | BSN | Add new member in group | | |

#### Alternative Flows

|  |  |  |
| --- | --- | --- |
| **AT1** | At step 4 in the main flows, if BSN system cannot search any account name | |
| **Step** | **Actor** | **Action** |
| 4.1 | BSN | Display “Không tìm được người dùng” message |
|  | | |
| **Exceptions:N/A** | | |

### UC026: Add new member by accept join-group request

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC026 | **Version** | 1.0 |
| **Use Case Name** | | Add new member by accept join-group request | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User as an admin of group | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user as an admin of group to add new member by accept their request | | |
| **Preconditions:** | | 1. User logged in BSN website 2. User is an admin of group | | |
| **Trigger:** | |  | | |
| **Post conditions:** | | New member has added in group | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to group page | | |
|  | BSN | Display group page includes:   * Navigation bar * Group’s panel * Side bars * Posts area | | |
|  | User | Click “Cài đặt” button, then click “Yêu cầu tham gia” tab | | |
|  | BSN | Display list join-request | | |
|  | User | Accept one or many request | | |
|  | BSN | Add new member in group | | |

#### Alternative Flows

|  |
| --- |
| N/A |
| **Exceptions: N/A** |

### UC027: Set another member admin

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC027 | **Version** | 1.0 |
| **Use Case Name** | | Set another member admin | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User as an admin of group | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user as an admin of group to set other be an admin | | |
| **Preconditions:** | | 1. User logged in BSN website 2. User is an admin of group | | |
| **Trigger:** | | Click “Thêm với tư cách quản lí” hyperlink on dropdown list in config icon in “Thành viên” tab | | |
| **Post conditions:** | | “Quản trị viên” sub-tab has new admin | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to group page | | |
|  | BSN | Display group page includes:   * Navigation bar * Group’s panel * Side bars * Posts area | | |
|  | User | Click “Thêm với tư cách quản lí” hyperlink on dropdown list in config icon in “Thành viên” tab | | |
|  | BSN | “Quản trị viên” sub-tab has new admin | | |

#### Alternative Flows

|  |
| --- |
| N/A |
| **Exceptions: N/A** |

### UC028: Remove member

#### Use Case Diagram

#### Use Case Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID** | | UC028 | **Version** | 1.0 |
| **Use Case Name** | | Remove member | | |
| **Created by:** | | HaiCM | **Date Created:** | 11/22/2016 |
| **Primary Actor** | | User as an admin of group | **Secondary Actor** | N/A |
| **Priority** | | High | | |
| **Frequency of Use:** | | High | | |
| **Business Rules:** | | N/A | | |
| **Other Information:** | | N/A | | |
| **Description:** | | This function allows user as an admin of group to remove member out of group | | |
| **Preconditions:** | | 1. User logged in BSN website 2. User is an admin of group | | |
| **Trigger:** | | Click “Xóa khỏi nhóm” hyperlink on dropdown list in config icon in “Thành viên” tab | | |
| **Post conditions:** | | Number of members has decreased | | |
| **Normal Flow** | | | | |
| **Step** | **Actor** | **Action** | | |
|  | User | Go to group page | | |
|  | BSN | Display group page includes:   * Navigation bar * Group’s panel * Side bars * Posts area | | |
|  | User | Click “Xóa khỏi nhóm” hyperlink on dropdown list in config icon in “Thành viên” tab | | |
|  | BSN | Remove member and decrease number of members | | |

#### Alternative Flows

|  |
| --- |
| N/A |
| **Exceptions: N/A** |

## Manage group post

### UC029: Create group posts

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

### UC030: Edit group posts

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

### UC031: Delete group posts

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

### UC032: Rate a book

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

### UC033: Search author

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

### UC034: Search book

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

### UC035: Search other account

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

### UC036: Suggest book

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

### UC037: Suggest author

#### Use Case Diagram

#### Use Case Specification

#### Alternative Flows

# Non-functional Specification

## Reliability

<Phần đặc tả về yêu cẩu độ tin cậy của phần mềm>

## Performance Requirements

### Availability

<Phần đặc tả về yêu cẩu độ sẵn sàng của phần mềm>

### Response time

<Phần đặc tả về yêu cầu thời gian phản hồi/xử lý của các chức năng phần mềm>

## User Interface

<Phần đặc tả về yêu cẩu về giao diện người-máy của phần mềm>

## Design Constraints

<Phần đặc tả về yêu cẩu các rang buộc về mặt thiết kế của phần mềm>

## Usability

<Phần đặc tả về yêu cẩu khả năng ứng dụng của phần mềm>

## Security Requirements

<Phần đặc tả về yêu cẩu về bảo mật thông tin của phần mềm>

## Hardware/Software Requirements

<Phần đặc tả về yêu cẩu về cơ sở hạ tầng (phần cứng/mềm) của của phần mềm>