# II. Software Requirement Specification

## 1. Overall Description

### 1.1 Product Overview

SOFA is a new social network that people can share all about fashion information. For example, they can share their beautiful moments, the place that they bought their outfits, or how to mix outfits of the day. Besides, the app can suggest posts of people who have the same size and shape of the body as the users' bodies. This makes SOFA different from the other apps. The context diagram below illustrates the external entities and system interfaces for release 1.0. The app is expected to evolve over several releases and become popular and useful for users.



**1.2 Business Rules**

|  |  |
| --- | --- |
| **ID** | **Rule Definition** |
| BR-01 | Only system accounts are allowed to access the management system. |
| BR-02 | Only admin accounts can create a staff account for the system. |
| BR-03 | Administrators are not allowed to delete user accounts from the system, only allowed to ban |
| BR-04 | Administrators or Staffs are not allowed to know users’ password |
| BR-05 | Administrators or Staffs are not allowed to change users’ balance |
| BR-06 | All users are allowed to know the time when the system will be maintained. |
| BR-07 | Users are allowed to know the reasons when her/his account is banned |
| BR-08 | The length of the content Maximum 2000 character |
| BR-09 | Before posting, the images in the post will be moderated for infringing content |
| BR-10 | Only posters can modify their post and all information in the post |
| BR-11 | The users can like, mark up all posts in their newsfeed |
| BR-12 | The users can rate star (1-5) in the other users’ posts |
| BR-13 | The users can send messages and follow the user |
| BR-14 | Post must include image about fashion |
| BR-15 | The users can advertise their posts |
| BR-16 | Users can send report request to admin |
| BR-17 | All input fields that include (\*) must not be blank |
| BR-18 | Phone number and email must be valid |

**01. Use case 01 (Actor guest)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-01 View newsfeeds** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | Guest | Secondary Actors: | N/A |
| Description: | An guest accesses the app from mobile phone view newsfeeds | | |
| Trigger: | An guest accesses the app from mobile phone and skip login | | |
| Preconditions: | N/A | | |
| Post-conditions: | View screen newsfeeds | | |
| Normal Flow: | 1. **Guest view newsfeeds**   1. The guest accesses the app from a mobile phone  2. The guest clicks “skip introduction”  3. Display screen newsfeeds | | |
| Alternative Flows: | 1. **Guest view newsfeeds in the first times installation app**   1. The guest accesses the app from a mobile phone  2. The guest clicks “next” in the “introduction screen”  3. Display screen newsfeeds | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Average a guest view newsfeeds one time before register account in-app SOFA | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**02. Use case 02 (Actor guest)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-02 Register** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | Guest | Secondary Actors: | N/A |
| Description: | When a guest wants to use the functions of the system, it is imperative that they register for an account | | |
| Trigger: | Guest clicks on the button “Register” on Home screen | | |
| Preconditions: | N/A | | |
| Post-conditions: | Guest submit to send information to the system | | |
| Normal Flow: | **1.0 Guest Register**   1. The guest accesses the app from a mobile phone 2. The guest clicks “register” 3. System displays screen register 4. The guest inputs email or mobile phone number and password to register an account on the app | | |
| Alternative Flows: | **1.0 Guest Register in screen “login”**   1. In screen “login” 2. The guest clicks “register” | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| Business Rules: | BR-17, BR-18 | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**03. Use case 03 (Actor guest)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-03 Login** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | Guest | Secondary Actors: | N/A |
| Description: | If the guest has an account register in-app, they can access the app from their mobile phone | | |
| Trigger: | Guest clicks on the button “Login” on Home screen | | |
| Preconditions: | Account must be register in app SOFA | | |
| Post-conditions: | Login to mobile app SOFA | | |
| Normal Flow: | **1.0 Guest login**   1. The guest accesses the app from a mobile phone 2. Guest clicks “Login” 3. System displays screen login 4. The guest inputs email or mobile phone number and password registered on the app | | |
| Alternative Flows: | **1.0 Guest login when comment post in new feed**   1. In the screen “new feed”, guest comment in post 2. Display screen “login” | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | This use case happens very regularly | | |
| Business Rules: | BR17 | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**04. Use case 04 (Actor User)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-04 Forgot password** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | User | Secondary Actors: | N/A |
| Description: | When the user forgets the password to log in, the system will send OTP to their email or mobile phone number to reset the password in the system | | |
| Trigger: | Guest clicks on the button “Forgot password” on Home screen | | |
| Preconditions: | Email or mobile phone number must be registered in-app SOFA | | |
| Post-conditions: | Send new password to email or mobile phone number of the user | | |
| Normal Flow: | **1.0 User forgot password**   1. On Home screen, User clicks “login” 2. System displays screen login 3. User click “Forgot password” 4. System display screen forgot password 5. User input email or password to input field and submit 6. System sends a new password to email or phone number 7. Display screen “Verification” | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | This use case happens sometimes when the user forgot the password | | |
| Business Rules: | BR-17, BR-18 | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**05. Use case 05 (Actor User)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-05 Verification** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | User | Secondary Actors: | N/A |
| Description: | When the user registers on the app, the system will send one OTP to their email or phone number. User must input valid OTP to continue use functions of the app | | |
| Trigger: | N/A | | |
| Preconditions: | N/A | | |
| Post-conditions: | N/A | | |
| Normal Flow: | **1.0 User Verification**   1. After the user submit info in screen “Register” 2. System displays screen “Verification” 3. User input OTP and submit | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| Business Rules: | BR-17, BR-18 | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**06. Use case 03 (Actor User)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-03 Logout** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | User | Secondary Actors: | N/A |
| Description: | User logs out of the app | | |
| Trigger: | User clicks on the button “Logout” | | |
| Preconditions: | User login the app | | |
| Post-conditions: | N/A | | |
| Normal Flow: | **1.0 User Logout**   1. In the menu, User clicks “Logout” | | |
| Alternative Flows: | **1.0 User Logout when change password**   1. In the screen “Profile”, User clicks “Change password” 2. User input all fields and submit 3. Display toast message “Change password success!” 4. User logout from session | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | N/A | | |
| Business Rules: | BR-17, BR-18 | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**07. Use case 04 (Actor User)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-03 View newsfeed** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | User | Secondary Actors: | N/A |
| Description: | User view list of post that other user-submitted to the system | | |
| Trigger: | N/A | | |
| Preconditions: | The user has successfully logged in to the system | | |
| Post-conditions: | N/A | | |
| Normal Flow: | **1.0 User views newsfeeds**   1. In the navigation bar, click tab “Newsfeed” | | |
| Alternative Flows: | **1.0 User views newsfeeds after login**   1. The guest accesses the app from a mobile phone 2. Guest clicks “Login” 3. System displays screen login 4. The guest inputs email or mobile phone number and password registered on the app and submit 5. Display screen newsfeeds | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | This use case regularly happens and usage load for this use case is all day | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**08. Use case 33 (Actor User)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-33 View Balance** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | User | Secondary Actors: | N/A |
| Description: | User views balance and history transaction | | |
| Trigger: | N/A | | |
| Preconditions: | User has successfully logged in to the system | | |
| Post-conditions: | N/A | | |
| Normal Flow: | **1.0 User view balance**   1. In the screen “Profile”, user click “ Manage balance” | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | This use case sometimes happens and usage load for this use case is all day | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**09. Use case 34 (Actor User)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-34 Top up account** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | User | Secondary Actors: | N/A |
| Description: | User add more money to the account | | |
| Trigger: | N/A | | |
| Preconditions: | User has successfully logged in to the system | | |
| Post-conditions: | Balance of user up | | |
| Normal Flow: | **1.0 Top up account**   1. In the menu, the user clicks “Top up account” 2. System display screen “TopUp” 3. User enters “PIN code” and “Scratch card no” | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | This use case sometimes happens and usage load for this use case is all day | | |
| Business Rules: | BR-17, BR-18 | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**10. Use case 35 (Actor User)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-35 View list voucher** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | User | Secondary Actors: | N/A |
| Description: | When user views a list of all voucher, they can see the number of vouchers in their account | | |
| Trigger: | View all voucher in account | | |
| Preconditions: | User has successfully logged in to the system | | |
| Post-conditions: | View all voucher in account | | |
| Normal Flow: | **1.0 View list voucher**   1. In the menu, user click “Manage voucher” 2. System displays all voucher of account | | |
| Alternative Flows: | **N/A** | | |
| Exceptions: | **N/A** | | |
| Priority: | Low | | |
| Frequency of Use: | This use case sometimes happens and usage load for this use case is all day | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

**11. Use case 36 (Actor User)**

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-36 View voucher detail** | | |
| Created By: | Mai Văn Viên | Date Created: | 26/01/2021 |
| Primary Actor: | User | Secondary Actors: | N/A |
| Description: | When the user views a list of all vouchers, they can see the number of vouchers in their account. When they click on one voucher, the system will redirect to a new screen to show these voucher details | | |
| Trigger: | View details of one voucher | | |
| Preconditions: | User has successfully logged in to the system | | |
| Post-conditions: | View details of one voucher | | |
| Normal Flow: | **1.0 View list voucher**   1. In the menu, the user clicks “Manage voucher” 2. System displays all voucher of account 3. User clicks once voucher 4. System displays voucher details | | |
| Alternative Flows: | **N/A** | | |
| Exceptions: | This use case sometimes happens and usage load for this use case is all day | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## **Other Requirements**

### 5.1 Appendix1 - Messages List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Message code** | **Message Type** | **Context** | **Content** |
| 1 | MSG01 | In line | There is not any search result | *No search result.* |
| 2 | MSG02 | In red, under the text box | Input-required fields are empty | *The \* field is required.* |
| 3 | MSG03 | Toast message | Updating information successfully | *Update profile successfully.* |
| 4 | MSG04 | Toast message | Login successfully | *Login successfully.* |
| 5 | MSG05 | Toast message | Change password successfully | *Change password successfully.* |
| 6 | MSG06 | Toast message | Confirming email sent successfully | *A confirmation email has been sent to {email\_address}.* |
| 7 | MSG07 | In line | Account has been blocked | *Account has been blocked, please check email or contact admin* |
| 8 | MSG08 | In line | Account or password incorrect | *Account or password incorrect please try again* |
| 9 | MSG09 | In red, under the text box | Input value length > max length | *Exceed max length of {max\_length}.* |
| 10 | MSG10 | In line | Username or password is not correct when clicking sign-in | *Incorrrect user name or password. Please check again.* |
| 11 | MSG11 | In red, under the text box | Email not valid | *Please enter valid email* |