# 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 posters can modify their post and all information in the post |
| BR-02 | The users can like, mark up all posts in their newsfeed |
| BR-03 | The users can rate star (1-5) in the other users’ posts |
| BR-04 | The users can send messages and follow the user |
| BR-05 | Post must include image about fashion |
| BR-06 | The users can advertise their posts |
| BR-07 | Users can send report request to admin |

**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 login”  3. Display screen newsfeeds | | |
| Alternative Flows: | **N/A** | | |
| 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 login**   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: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| Business Rules: | * All input fields that include (\*) must not be blank * The maximum length of input text fields is 255 | | |
| 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: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| Business Rules: | * All input fields must not be blank | | |
| 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 “Login” | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| Business Rules: | * User must input a valid e-mail or valid phone number | | |
| 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: | * Input field only allows enter number | | |
| 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: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | N/A | | |
| Business Rules: | N/A | | |
| 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: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| 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 menu, user click “ Manage balance” | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| 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: | N/A | | |
| Business Rules: | * All input fields that include must not be blank * A fields “PIN Code” maximum length is 13 | | |
| 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 voucher 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: | High | | |
| Frequency of Use: | N/A | | |
| 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 display voucher details | | |
| Alternative Flows: | **N/A** | | |
| Exceptions: | **N/A** | | |
| Priority: | High | | |
| Frequency of Use: | N/A | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |