**Social Media News Tracking System**

Software Requirement Specification

By

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**Document History**

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**3.1.2 User Requirement Specification Description**

**Feature 1: User Management system.**

URS-01: The user registers to the system.

Description:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-01 | | | | |
| **User Requirement Specification Name:** | The user registers to the system. | | | | |
| **Create By :** | Pichet Potha  Sittipong Borripan | | **Last update by :** |  | |
| **Date Created :** | July 9, 2015 | | **Last Revision Date :** |  | |
| **Actor:** | User | | | | |
| **Description:** | URS-01 is used, when the user wants to use more function on Social Media News Tracking System. | | | | |
| **Trigger:** | The user selects “Sign up” to create an account. | | | | |
| **Pre-condition:** | * The user has not logged in to the system. * The user stays on Homepage. | | | | |
| **Post-condition:** | * The system saves user information into a system. * The user logged in to the system and stay on Homepage. | | | | |
| **Input data** | **Input name** | **Description** | | | **Example** |
| Name | The name will use for display on the system. Name can consist of any character. | | | “Tom” |
| Email | The email should be the same as the email address that user used. | | | “new-01@gmail.com” |
| Password | The password of the user should have a length 4-15 characters. | | | “new1234” |
| Confirm password | The password of the user should have a length 4-15 characters. | | | “new1234” |
| **Normal Flow:** | 1. The system shall provide the interface to receive Name, Email, Password, and Confirm password for the member user registration. 2. The user inputs Name, Email, Password, and Confirm password for the member user registration. 3. The user selects “Sign up” button. 4. The system verifies email and password format. 5. The system saves the user information to the system. 6. The user logged in to the system and stay on Homepage. | | | | |
| **Alternative Flow:** | A. In step 2 of the normal flow, if the user selects “Cancel” instead of “Sign up”.  A2. The system shows the Homepage.  B. In step 3 of the normal flow, if the user selects “Cancel” instead of “Sign up”.  A3. The system shows the Homepage. | | | | |
| **Exception:** | A. In step 4 of the normal flow, if the user inputs a password less than 4 characters or more than 15 characters.  A4. The system shows an error message “A password less than 4 characters or more than 15 characters”.  A5. The user go back to do a step 2 of the normal flow again.  B. In step 4 of the normal flow, if the user inputs the email that incorrect with the email format.  B4. The system shows an error message “An email is not correct”.  B5. The user goes back to do a step 2 of the normal flow again.  C. In step 4 of the normal flow, if the email already existed.  C4. The system shows an error message “This email already existed”.  C5. The user goes back to do a step 2 of the normal flow again.  D. In step 4 of the normal flow, if the Password and Confirm password are not match.  D4. The system shows an error message “The passwords did not match”.  D5. The user goes back to do a step 2 of the normal flow again.  E. In step 4 of the normal flow, if there is some blank dialog.  E4. The system shows an error message “Please input all of information”.  E5. The user goes back to do a step 2 of the normal flow again.  In all of step of the normal flow, if the system disconnects from an internet.   1. The system shows an error message about internet disconnection. | | | | |
| **Include:** | N/A | | | | |

**System requirement specification (SRS):**

* SRS-01: The system provides the interface to receive Name, Email, Password, Confirm password, and submit button for the member user registration. The submit button is “Sign up”.
* SRS-02: The system can check the email format. The email must be the email format.
* SRS-03: The system can check the password format. The password must be 4-15 character, and can consist of any character.
* SRS-04: The system can validate whatever the password in the Password field and Confirm password field are the same.
* SRS-05: The system can check the blank field.
* SRS-06: The system saves the user information to the system.
* SRS-07: The system automatically log in for the user after finished the registration.
* SRS-08: The system shows an error message “A password less than 4 characters or more than 15 characters”.
* SRS-09: The system shows an error message “An email is not correct”.
* SRS-10: The system shows an error message “This email already existed”.
* SRS-11: The system shows an error message “Please input all of information”.
* SRS-12: The system shows an error message about internet disconnection.

URS-02: The Member user log in to the system.

Description:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-02 | | | | |
| **User Requirement Specification Name:** | The Member user log in to the system. | | | | |
| **Create By :** | Pichet Potha  Sittipong Borripan | | **Last update by :** | |  |
| **Date Created :** | July 9, 2015 | | **Last Revision Date :** | |  |
| **Actor:** | Member user | | | | |
| **Description:** | URS-02 is used, when the Member user wants to log in to the system. | | | | |
| **Trigger:** | The Member user selects “Log in” to log in to system. | | | | |
| **Pre-condition:** | * Member user has not logged in to the system. * Member user has already registered to system and have an account. * Member user stay on the Homepage. | | | | |
| **Post-condition:** | * The Member user is able to use more function in the system. | | | | |
| **Input data** | **Input name** | **Example** | | **Description** | |
| Email | “new-01@gmail.com” | | The email should be the same as the email address that user used. | |
| Password | “new1234” | | The password of the user should have a length 4-15 characters. | |
| **Normal Flow:** | 1. The system shall provide the interface to receive Email and Password. 2. The Member user input Email and Password. 3. The Member user select “Log in” button. 4. The system validates the username and password. 5. The Member user has logged in to the system, and stays on Homepage. | | | | |
| **Alternative Flow:** | 2A 3A. In step 2 and 3 of the normal flow, if the user selects “Cancel” instead of “Sign up”.   1. The system shows the Homepage. | | | | |
| **Exception:** | 3A. In step 3 of the normal flow, if the Email or Password is invalid.   1. The system shows the error message “The Email or Password is not correct”. 2. The Member user goes back to the step 2 of the normal flow again.   3B. In step 3 of the normal flow, if there is some blank dialog.   1. The system shows an error message “Please input all of information”. 2. The user goes back to do a step 2 of the normal flow again.   In all of step of the normal flow, if the system disconnects from an internet.   1. The system shows an error message about internet disconnection. | | | | |
| **Include:** | N/A | | | | |

**System requirement specification (SRS):**

* SRS-05: The system can check the blank field.
* SRS-11: The system shows an error message “Please input all of information”.
* SRS-12: The system shows an error message about internet disconnection.
* SRS-14: The system shall provide the interface to receive Email and Password.
* SRS-15: The system validates the username and password.
* SRS-16: The system shows the error message “The Email or Password is not correct”.

URS-03: The Member user edits the account.

Description:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-03 | | | | |
| **User Requirement Specification Name:** | The Member user edits the account. | | | | |
| **Create By :** | Pichet Potha  Sittipong Borripan | | **Last update by :** | |  |
| **Date Created :** | July 9, 2015 | | **Last Revision Date :** | |  |
| **Actor:** | Member user | | | | |
| **Description:** | URS-03 is used, when the Member user wants to change the account name or password. | | | | |
| **Trigger:** | The Member user selects “Edit” to edit an account. | | | | |
| **Pre-condition:** | * Member user already logged in to the system. * Member user stays on Account page. | | | | |
| **Post-condition:** | * The system saves Member user information into a system. * The Member user stays on the Account page | | | | |
| **Input data** | **Input name** | **Example** | | **Description** | |
| Name | “Crist” | | The name will use for display on the system. Name can consist of any character. | |
| Current password | “new1234” | | The password of the user should have a length 4-15 characters. | |
| New password | “new4321” | | The password of the user should have a length 4-15 characters. | |
| **Normal Flow:** | 1. The system shall provide the interface to receive Name, Current password, and New password. 2. The Member user input Name, Current password, and New password. 3. The Member user select “Save” button. 4. The system verifies the Current password and New password. 5. The system save the Member user information to the system. 6. The Member user stays on Account page. | | | | |
| **Alternative Flow:** | 2A 3A. In step 2 and 3 of the normal flow, if the user selects “Cancel” instead of “Sign up”.   1. The system shows the Account page. | | | | |
| **Exception:** | 3A. In step 3 of the normal flow, if the Current password is invalid.   1. The system shows the error message “The current password is not correct”. 2. The Member user goes back to the step 2 of the normal flow again.   3B. In step 3 of the normal flow, if the Member user inputs a New password less than 4 characters or more than 15 characters.   1. The system shows an error message “A password less than 4 characters or more than 15 characters”. 2. The user go back to do a step 2 of the normal flow again.   3C. In step 3 of the normal flow, if there is some blank dialog.   1. The system shows an error message “Please input all of information”. 2. The user goes back to do a step 2 of the normal flow again.   In all of step of the normal flow, if the system disconnects from an internet.   1. The system shows an error message about internet disconnection. | | | | |
| **Include:** | N/A | | | | |

**System requirement specification (SRS):**

* SRS-03: The system can check the password format. The password must be 4-15 character, and can consist of any character.
* SRS-05: The system can check the blank field.
* SRS-06: The system saves the user information to the system.
* SRS-08: The system shows an error message “A password less than 4 characters or more than 15 characters”.
* SRS-11: The system shows an error message “Please input all of information”
* SRS-12: The system shows an error message about internet disconnection.
* SRS-17: The system shall provide the interface to receive Name, Current password, and New password.
* SRS-18: The system can validate the Current password.
* SRS-19: The system shows an error message “The current password is not correct”.

URS-04: The Member user log out from the system.

Description:

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| --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-04 | | |
| **User Requirement Specification Name:** | The Member user log out from the system. | | |
| **Create By :** | Pichet Potha  Sittipong Borripan | **Last update by :** |  |
| **Date Created :** | July 9, 2015 | **Last Revision Date :** |  |
| **Actor:** | Member user | | |
| **Description:** | URS-02 is used, when the Member user wants to log out from the system. | | |
| **Trigger:** | The Member user selects “Log out” to log out to system. | | |
| **Pre-condition:** | * The Member user has already logged in to the system. | | |
| **Post-condition:** | * The Member user stays on index page and already log out. | | |
| **Input data** | n/a | | |
| **Normal Flow:** | 1. Member user selects “log out” button on the screen. 2. The system disconnects session of that user. | | |
| **Alternative Flow:** | n/a | | |
| **Exception:** | In all of step of the normal flow, if the system disconnects from an internet.   1. The system shows an error message about internet disconnection. | | |
| **Include:** | N/A | | |

**System requirement specification (SRS):**

* SRS

Feature 2: Searching

URS-05: The users searching the news.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-05 | | | | |
| **User Requirement Specification Name:** | The users searching the news. | | | | |
| **Create By :** | Sittipong Borripan | | **Last update by :** | |  |
| **Date Created :** | July 9, 2015 | | **Last Revision Date :** | |  |
| **Actor:** | Member user, User | | | | |
| **Description:** | URS-05 is used, when the Member user or the User need to search the news that they interested. | | | | |
| **Trigger:** | The user selects “Submit” to start searching. | | | | |
| **Pre-condition:** | * The Member user or the User stays on Homepage. * The Member user or the User already had Facebook and Twitter account. * The Member user or the User already log in to Facebook and Twitter. | | | | |
| **Post-condition:** | * The Member user or the User see the news that related with the keyword. | | | | |
| **Input data** | **Input name** | **Example** | | **Description** | |
| Input | “Chiang Mai” or “เชียงใหม่” | | The input can be a word in any language. | |
| **Normal Flow:** | 1. The Member user or the User select the interested target website for searching the news. 2. The Member user or the User input the keyword or the sentence. 3. The Member user or the User select “Submit” button. 4. The system get related result from target site. | | | | |
| **Alternative Flow:** | * A. In step 3 of normal flow, if Member user or the User didn’t log in to Facebook.   A1. The system ask for Facebook log in.  A2. Member user or the User input their username.  A3. Member user or the User send Facebook log in  A4. The system return to step 1 of normal flow   * B. In step 3 of normal flow, if Member user or the User didn’t log in to twitter.   A1. The system ask for twitter log in.  A2. Member user or the User input their username.  A3. Member user or the User send twitter log in  A4. The system return to step 1 of normal flow | | | | |
| **Exception:** | * A. In step 3 of the normal flow, if there is not the news that related with the input.   A1. The system shows an error message “Not found the result”.  A2. The Member user or the User go back to do step 2 of the normal flow again.   * B. In step 3 of normal flow, if the user does not input anything.   B1. The system show an error message “Please input something”.  B2. The Member user or the User go back to do step 2 of the normal flow again.   * C. In step 3 of normal flow, if The Member user or the User does not select any websites yet.   C1. The system show an error message “Please select the target website”.  C2. The Member user or the User go back to do step 1 of the normal flow again.   * In all of step of the normal flow, if the system disconnects from an internet.   A1. The system shows an error message about internet disconnection. | | | | |
| **Include:** | N/A | | | | |

**System requirement specification (SRS):**

* SRS-12: The system shows an error message about internet disconnection.
* SRS-20: The system shall provide the interface to receive the input. The input can be any character, and any language.
* SRS-21: The system search the news by using the input from the Member user or User.
* SRS-22: The system get related result from target site.
* SRS-23: The system ask for Facebook log in.
* SRS-24: The system ask for Twitter log in.
* SRS-25: The system show an error message “Please input something”.
* SRS-26: The system show an error message “Please select the target website”.
* SRS-25: The system show an error message “Not found the result”.

URS-06: The users see the result from searching the news.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-06 | | | | |
| **User Requirement Specification Name:** | The users see the result from searching the news. | | | | |
| **Create By :** | Pichet Potha  Sittipong Borripan | | **Last update by :** | |  |
| **Date Created :** | July 9, 2015 | | **Last Revision Date :** | |  |
| **Actor:** | Member user, User | | | | |
| **Description:** | URS-05 is used, when the Member user or the User need to search the news that they interested. | | | | |
| **Trigger:** | The user selects “Submit” to start searching. | | | | |
| **Pre-condition:** | * The Member user or the User stays on Homepage. * The Member user or the User already had Facebook and Twitter account. * The Member user or the User already log in to Facebook and Twitter. | | | | |
| **Post-condition:** | * The Member user or the User see the news that related with the keyword. | | | | |
| **Input data** | **Input name** | **Example** | | **Description** | |
| Input | “Chiang Mai” or “เชียงใหม่” | | The input can be a word in any language. | |
| **Normal Flow:** | 1. The Member user or the User select the interested target website for searching the news. 2. The Member user or the User input the keyword or the sentence. 3. The Member user or the User select “Submit” button. 4. The system get related result from target site. | | | | |
| **Alternative Flow:** | * A. In step 3 of normal flow, if Member user or the User didn’t log in to Facebook.   A1. The system ask for Facebook log in.  A2. Member user or the User input their username.  A3. Member user or the User send Facebook log in  A4. The system return to step 1 of normal flow   * B. In step 3 of normal flow, if Member user or the User didn’t log in to twitter.   A1. The system ask for twitter log in.  A2. Member user or the User input their username.  A3. Member user or the User send twitter log in  A4. The system return to step 1 of normal flow | | | | |
| **Exception:** | * A. In step 3 of the normal flow, if there is not the news that related with the input.   A1. The system shows an error message “Not found the result”.  A2. The Member user or the User go back to do step 2 of the normal flow again.   * B. In step 3 of normal flow, if the user does not input anything.   B1. The system show an error message “Please input something”.  B2. The Member user or the User go back to do step 2 of the normal flow again.   * C. In step 3 of normal flow, if The Member user or the User does not select any websites yet.   C1. The system show an error message “Please select the target website”.  C2. The Member user or the User go back to do step 1 of the normal flow again.   * In all of step of the normal flow, if the system disconnects from an internet.   A1. The system shows an error message about internet disconnection. | | | | |
| **Include:** | N/A | | | | |

URS-07: The Member user tracks the new from searched keyword.

|  |  |  |  |
| --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-07 | | |
| **User Requirement Specification Name:** | The user track news from searched keyword. | | |
| **Create By :** | Pichet Potha | **Last update by :** | Pichet Potha |
| **Date Created :** | July 09, 2015 | **Last Revision Date :** | July 09, 2015 |
| **Actor:** | Member users | | |
| **Description:** | URS-07 is used, when the user wants to track the news. | | |
| **Trigger:** | The user selects “Track it” to track a news. | | |
| **Pre-condition:** | * The users has already registered to system and have an account. * The users must log into the system. * The users stay on searching news result page. | | |
| **Post-condition:** | * The system saves the user tracking information into system (tracking list). * A users complete to track news. | | |
| **Normal Flow:** | 1. The user select “track it” button. 2. The system shall validate tracking word and saves into system. 3. The system shall display interface of user account page with tracking list. | | |
| **Alternative Flow:** | * A. In step 1 of the normal flow, if the user didn’t log into system.   A1. The system shows message “Please register into system.” to user.  A2. The system shall redirect to register page.   * B. In step 2 of the normal flow, if keyword already exist in “tracking list”.   B1. The system shows message “You already tracking this news”.  B2. The system shall redirect to search page. | | |
| **Exception:** | * In all of step of the normal flow, if the system disconnects from an internet.  1. The system shows an error message about internet disconnection. | | |
| **Include:** | N/A | | |

URS-08: The Member user see tracking news from tracking list.

|  |  |  |  |
| --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-08 | | |
| **User Requirement Specification Name:** | The user see tracking news from tracking list. | | |
| **Create By :** | Pichet Potha | **Last update by :** | Pichet Potha |
| **Date Created :** | July 09, 2015 | **Last Revision Date :** | July 09, 2015 |
| **Actor:** | Member users | | |
| **Description:** | URS-08 is used, when the user wants to see news from tracking list. | | |
| **Trigger:** | The user selects “Submit” to see a news from tracking list. | | |
| **Pre-condition:** | * The users has already registered to system and have an account. * The users must log into the system. * The users stay on user account page. | | |
| **Post-condition:** | * The system display news from tracking list. * A users complete to see news from tracking list. | | |
| **Normal Flow:** | 1. The user select news from tracking list. 2. The system shall validate selected news in tracking list. 3. The system shall searching for selected news. 4. The system shall display interface of tracking news result. | | |
| **Alternative Flow:** | * A. In step 1 of the normal flow, if the user didn’t select news in tracking list.   A1. The system shows message “Please select news.” to user.  A2. The system shall return to step 1 in normal flow.   * B. In step 1 of the normal flow, if tracking list is empty.   B1. The system shows message “You didn’t tracking news yet”. | | |
| **Exception:** | * In all of step of the normal flow, if the system disconnects from an internet.  1. The system shows an error message about internet disconnection. | | |
| **Include:** | N/A | | |

URS-09: The Member user deletes tracking news in tracking list.

|  |  |  |  |
| --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-09 | | |
| **User Requirement Specification Name:** | The user delete tracking news in tracking list. | | |
| **Create By :** | Pichet Potha | **Last update by :** | Pichet Potha |
| **Date Created :** | July 09, 2015 | **Last Revision Date :** | July 09, 2015 |
| **Actor:** | Member users | | |
| **Description:** | URS-09 is used, when the user wants to delete the news in tracking list. | | |
| **Trigger:** | The user selects “Track it” to track a news. | | |
| **Pre-condition:** | * The users has already registered to system and have an account. * The users must log into the system. * The users stay on user account page. | | |
| **Post-condition:** | * The system saves the edited user tracking information into system (tracking list). * A users complete to delete new in tracking list. | | |
| **Normal Flow:** | 1. The user select news in tracking list. 2. The user select “submit”. 3. The system shall validate tracking information. 4. The system shall save edited tracking information to system. | | |
| **Alternative Flow:** | * A. In step 1 of the normal flow, if the user didn’t select news in tracking list.   A1. The system shows message “Please select news.” to user.  A2. The system shall return to step 1 in normal flow.   * B. In step 3 of the normal flow, if keyword not exist in “tracking list”.   B1. The system shows message “the news not exist in the system”  B2. The system shall redirect to account page. | | |
| **Exception:** | * In all of step of the normal flow, if the system disconnects from an internet.  1. The system shows an error message about internet disconnection. | | |
| **Include:** | N/A | | |

URS-10: The Member user receive the alert message from system.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User Requirement Specification ID:** | URS-10 | | | | |
| **User Requirement Specification Name:** | The Member user receive the alert message from system. | | | | |
| **Create By :** | Pichet Potha  Sittipong Borripan | | **Last update by :** | |  |
| **Date Created :** | July 9, 2015 | | **Last Revision Date :** | |  |
| **Actor:** | Member user, User | | | | |
| **Description:** | URS-10 is used, when the Member user or the User need to search the news that they interested. | | | | |
| **Trigger:** | The user selects “Submit” to start searching. | | | | |
| **Pre-condition:** | * The Member user or the User stays on Homepage. * The Member user or the User already had Facebook and Twitter account. * The Member user or the User already log in to Facebook and Twitter. | | | | |
| **Post-condition:** | * The Member user or the User see the news that related with the keyword. | | | | |
| **Input data** | **Input name** | **Example** | | **Description** | |
| Input | “Chiang Mai” or “เชียงใหม่” | | The input can be a word in any language. | |
| **Normal Flow:** | 1. The Member user or the User select the interested target website for searching the news. 2. The Member user or the User input the keyword or the sentence. 3. The Member user or the User select “Submit” button. 4. The system get related result from target site. | | | | |
| **Alternative Flow:** | * A. In step 3 of normal flow, if Member user or the User didn’t log in to Facebook.   A1. The system ask for Facebook log in.  A2. Member user or the User input their username.  A3. Member user or the User send Facebook log in  A4. The system return to step 1 of normal flow   * B. In step 3 of normal flow, if Member user or the User didn’t log in to twitter.   A1. The system ask for twitter log in.  A2. Member user or the User input their username.  A3. Member user or the User send twitter log in  A4. The system return to step 1 of normal flow | | | | |
| **Exception:** | * A. In step 3 of the normal flow, if there is not the news that related with the input.   A1. The system shows an error message “Not found the result”.  A2. The Member user or the User go back to do step 2 of the normal flow again.   * B. In step 3 of normal flow, if the user does not input anything.   B1. The system show an error message “Please input something”.  B2. The Member user or the User go back to do step 2 of the normal flow again.   * C. In step 3 of normal flow, if The Member user or the User does not select any websites yet.   C1. The system show an error message “Please select the target website”.  C2. The Member user or the User go back to do step 1 of the normal flow again.   * In all of step of the normal flow, if the system disconnects from an internet.   A1. The system shows an error message about internet disconnection. | | | | |
| **Include:** | N/A | | | | |

* + - * 1. **SearchingController class**

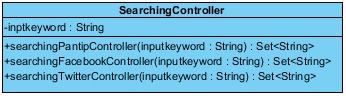
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Figure: SearchingController Class

SearchingController class is the class that use to searching the news that relate with the keyword from the Member or the User. The SearchingController class consists of 1 attribute follow the list below this passage:

Attribute description

* **inputkeyword** – the keyword or the sentence that input by the user. It will be used to searching the new on Facebook, Twitter or Pantip.

Method description

* **searchingPantipController(inputkeyword: String): Set<String>** - the searching method that will work when user select to searching the news on Pantip.
* **searchingFacebookController(inputkeyword: String): Set<String> -** the searching method that will work when user select to searching the news on Facebook.
* **searchingTwitterController(inputkeyword: String): Set<String> -** the searching method that will work when user select to searching the news on Twitter.