

**Figure 1: <Admin>** Overview Use case

**2.3.1.1 < Admin >** Create Account **Use Case Diagram**

**** Figure 2: **< Admin >** Create Account **Use Case Specification**

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| **USE CASE – LRA001** | | | |
| **Use Case No.** | LRA001 | **Use Case Version** | 1.0 |
| **Use Case Name** | Create Account | | |
| **Author** | Nguyen Manh Khuong | | |
| **Date** | 17/05/2015 | **Priority** | Normal |
| **Actor:**   * Admin   **Summary:**   * This use case allows admin to create new account in the system.   **Goal:**   * New account will be added to the system.   **Triggers:**   * Admin wants to create new account. * From the sidebar:   + Choose “Manage Account”.   + Choose “Create account” button.   **Preconditions:**   * User must login the system with admin role.   **Post Conditions:**   * **Success:** New account will be added to the database. * **Fail:** Show error message on the current page.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click menu item “Manage Account”. | Navigate to “List of Accounts” page which contains:   * “Create account” button. * A table with 5 columns:   + Username.   + Email.   + Role.   + Status.   + Edit. * “Username”: label. * “Email”: label. * “Role”: label. * “Enable”: button or “Disable”: button * “Edit”: button. | | 2 | Admin clicks “Create account” button. | Navigate to “Create new account” popup which contains:   * Username: textbox, min length: 8, max length: 255, required. * Password: textbox, min length: 8, max length: 255, required. * Confirm password: textbox, min length: 8, max length: 255, required. * Email address: regular expression: /^[\_a-z0-9-]+(\.[\_a-z0-9-]+)\*@@[a-z0-9-]+(\.[a-z0-9-]+)\*(\.[a-z]{2,4})$/ required. * Role: drop down list, “Staff" default. * “Create account”: button. * Status: drop-down list, “Enable” default. * “Clear”: button. * “Create”: button | | 3 | Admin fills data to the form.  Admin clicks “Create account” button.  [Alternative 1] | Insert new account to the database and close popup  [Exception 1, 2, 3,4,5] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Admin clicks “Clear” button”. | Clear all input data. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | “Username” is not in range [8-255]. | “Username” textbox border color is red. | | 2 | “Password” is not in range  [8-255]. | “Password” textbox border color is red. | | 3 | “Username” has already existed. | Show message: “Username has already existed!” and “Username” textbox border color is red. | | 4 | “Re-password” and “Password” do not match. | “Password” textbox border color is red.  “Re-password” textbox border colour is red. | | 5 | Invalid email format. | “Email address” textbox border colour is red. |   **Relationships:** N/A  **Business Rules:**   * Each created account must be in active state when insert to database. * Password will be encrypt with MD5 message-digest algorithm. | | | |

Table1: < Admin > Create Account

**2.3.1.2 < Admin >** Edit Account **Use Case Diagram**

 Figure 3: **< Admin >** Update Account **Use Case Specification**

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| **USE CASE – LRA002** | | | |
| **Use Case No.** | LRA002 | **Use Case Version** | 1.0 |
| **Use Case Name** | Update Account | | |
| **Author** | Nguyen Manh Khuong | | |
| **Date** | 17/05/2015 | **Priority** | Normal |
| **Actor:**   * Admin, Staff   **Summary:**   * this use case allows admin to update all account's information.   **Goal:**   * New information will be updated to the database.   **Triggers:**   * Admin want to change some information.   **Preconditions:**   * User must log into the system.   **Post Conditions:**   * **Success:** New information will be updated to the database. * **Fail:** Show error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click menu item “Manage Account”. | Navigate to “List of Accounts” page which contains:   * “Create account” button. * A table with 5 columns:   + Username.   + Email.   + Role.   + Status.   + Edit. * “Username”: label. * “Email”: label. * “Role”: label. * “Enable”: button or “Disable”: button * “Edit”: button. | | 2 | Click “Edit” button. | Navigate to “Edit account” popup, which contains:   * Username: textbox, disabled. * Email address: regular expression: /^[\_a-z0-9-]+(\.[\_a-z0-9-]+)\*@@[a-z0-9-]+(\.[a-z0-9-]+)\*(\.[a-z]{2,4})$/ required. * Role: drop down list, “Staff" default. * Status: drop-down list. Default choice base on account current status. * “Save changes”: button. | | 3 | Admin updates “Email”, “Role”, “Status”.  Click “Save changes” button.  [Alternative 1] | New information will be updated to the database and  Close the popup.  [Exception 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Admin clicks “Cancel” button”. | Back “admin” page. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Invalid email format. | Show error message: “Email address must be valid format!” |   **Relationships:** N/A  **Business Rules:**   * Cannot edit “Username”. | | | |

Table1: < Admin > Update Account

****Figure 3: **< Admin >** **Activate/Deactivate Account Use Case Specification**

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| **USE CASE – LRA003** | | | |
| **Use Case No.** | LRA003 | **Use Case Version** | 1.0 |
| **Use Case Name** | Activate/Deactivate Account | | |
| **Author** | Nguyen Manh Khuong | | |
| **Date** | 17/05/2015 | **Priority** | Normal |
| **Actor:**   * Admin   **Summary:**   * This user case allows admin to activate or deactivate user account.   **Goal:**   * Disabled accounts will be enabled again or opposite.   **Triggers:**   * Admin wants to activate an account so that it can be used to log in the system again or opposite.   **Preconditions:**   * User must log in the system with admin role.   **Post Conditions:**   * **Success:** The selected account will be enabled. * **Fail:** No account is enabled.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click menu item “Manage Account”. | Navigate to “List of accounts” page which contains:   * “Create account” button. * A table with 5 columns:   + Username.   + Email.   + Role.   + Status.   + Edit. * “Username”: label. * “Email”: label. * “Role”: label. * “Deactivate”: button * “Edit”: button. | | 2 | Click “Disable” button.  [Alternative 1] | The account will be activating and button name change to “Enable” or opposite.  [Exception 1] |   **Alternative Scenario:** N/A   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Click “Disable” button. | The account will be deactivating and button name change to “Disable”.  [Exception 2] |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Cannot enable the account due to database connection. | Show error message: “Cannot enable the account! Please try again later.” | | 2 | Cannot disable the account due to database connection. | Show error message: “Cannot disable the account! Please try again later.” |   **Relationships:** Manage Account  **Business Rules:**   * Admins cannot enable/disable account of themselves or other admins. | | | |

Table2: <Admin> Activate/Deactivate Account



Figure 4: **< Staff >** **Configure System Use Case Specification**

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| **USE CASE – LRA005** | | | |
| **Use Case No.** | **LRA005** | **Use Case Version** | 1.0 |
| **Use Case Name** | Configure System | | |
| **Author** | Nguyen Manh Khuong | | |
| **Date** | 17/05/2015 | **Priority** | High |
| **Actor:**   * Staff.   **Summary:**   * This use case allows staff to configure the system.   **Goal:**   * System parameters will be configured by admin.   **Triggers:**   * Staff wants to change system parameter, such as “Parser running time automatically everyday”. * From the sidebar:   + Choose “Configure System” tag.   **Preconditions:**   * User must log in the system with Staff role.   **Post Conditions:**   * **Success:** New parameter will be saved to configuration file. * **Fail:** Nothing is saved to configuration file.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click at “Configure System” tag. | Show “Configure System” page which contains:   * “Parser running time automatically everyday”: textbox, min time: 00:00, max time: 23.58, type: time, required. * “Update”: button. | | 2 | Staff changes system parameters. |  | | 3 | Click on “Save” button.  [Exception 1] | * Save data to configuration file. * Show success message. |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Connection to database error. | Show error message: “Cannot update new system configuration! Please try again later.” |   **Relationships:** N/A  **Business Rules:**   * “Parser running time automatically everyday” mean time the system auto parser product by link staff approved. | | | |

Table3: < Staff > Configure System Use Case Specification

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| **USE CASE – LRA006** | | | |
| **Use Case No.** | **LRA006** | **Use Case Version** | 1.0 |
| **Use Case Name** | Import Excel File | | |
| **Author** | Nguyen Manh Khuong | | |
| **Date** | 3/06/2015 | **Priority** | High |
| **Actor:**   * Staff.   **Summary:**   * This use case allows staff to import newwords into dictionary database by excel file.   **Goal:**   * New words will be insert into dictionary database.   **Triggers:**   * Staff wants to import lot of new words in an excel file. * From the sidebar:   + Choose “Manage Dictionary” tag.   + Choose “Import Excel File” tag from dropdown list of tags.   **Preconditions:**   * User must log in the system with Staff role.   **Post Conditions:**   * **Success:** new words will be saved to dictionary database. * **Fail:** Nothing is saved to dictionary database.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click at “Import Excel File” tag. | Show “Import Excel File” page which contains:   * “Choose file”: button. * “Submit”: button. | | 2 | Click on “Choose file” button. | Show “Open” dialog box . | | 3 | Staff select a file a click “Open” button or double-click on that file. | Show “Import Excel File” page which contains that filename next to “Choose file”: button. | | 4 | Click on “Submit” button.  [Alternative 1], [Alternative 2] | Read excel file and add words are contained in file to a list, check spelling each words.   * Show list of new words table with 3 columns:   + Select: checkbox.   + “Word”: textbox.   + “Type”: dropdown list. * “Save to DB”: button.   [Alternative 3], [Alternative 4], [Alternative 5] | | 5 | Click “Save to DB” button. | Save selected word to database. Find synonyms and antonyms of each word.  [Exception 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | No file is chosen | Show message: “Please upload a file!” | | 2 | File upload is not an excel extension. | Show message: “Please upload an excel file! (.xls or xlsx)” | | 3 | Input word already existed in database | It will be remove from list. | | 4 | Input word is correct spelling | It will be show in read-only textbox. Check select checkbox. | | 5 | Input word is not correct spelling | It will be show in textbox, font colour is red. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Connection to database error. | Show error message: “Cannot save new words to database! Please try again later.” |   **Relationships:** N/A  **Business Rules:**   * Excel file structure must properly. | | | |

Table3: < Staff > Import Excel File

### Usability

#### Graphic User Interface

* All the texts, labels and should be written in English.

#### Usability

* Admin, staff should need less than one week of training to be productive with the system.
* Guest and member can use the system easily without training.

#### Installation

* The system must be easy to deploy. Customer can deploy successfully and learn to configure, maintain the system within one day of training.
* The attached manual guide must be clear. User can read and do themselves without developer’s help.

### Reliability

* The system can analyze almost comments, classify them base on dictionary with above 80% accuracy.

### Availability

* N/A

### Security

* Privacy: Each role of user has a specific permission to interact with system.
* System always checks authorization and authenticated before doing anything.
* Only admin can grant permission to staff.

### Maintainability

* Dictionary data is easy to change and update.

### Portability

* The web application can be used anywhere, where has Internet Connection, by Smart phones or PC.

### Performance

* Server responses in 3 seconds for normal progresses, in 10 seconds for complex progresses.
* The page resources are lightly to reduce loading time.