##### <Staff> Import File

Use Case Diagram

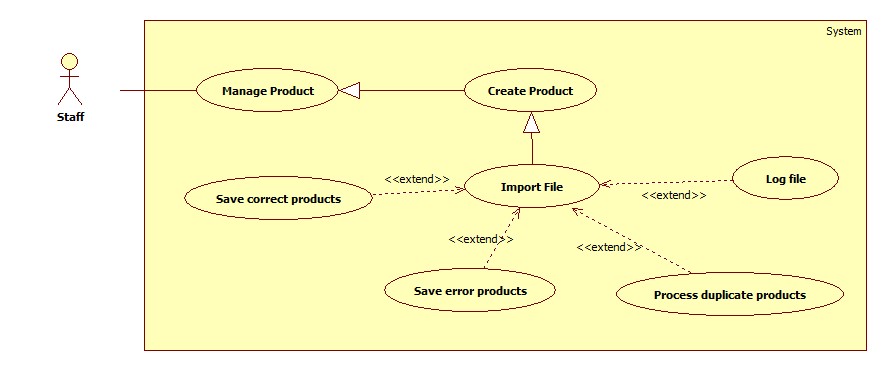


Figure 17: <Staff> Import File

Use Case Specification

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| **USE CASE – SB013** | | | |
| **Use Case No.** | SB013 | **Use Case Version** | 2.0 |
| **Use Case Name** | Import File | | |
| **Author** | Tran Trung Dung | | |
| **Date** | 20/02/2014 | **Priority** | High |
| **Actor:**   * Staff   **Summary:**   * This use case allows staff to show data from excel files.   **Goal:**   * Product classification in excel file.   **Triggers:**   * Staff wants to show products in excel file. * To import a file, staff must do the following steps:   + Click “Nhập từ excel” menu.   + Choose the file, click “Tải lên” button.   **Preconditions:**   * User must log in the system with staff role.   **Post Conditions:**   * **Success**: Products will be showed. * **Fail:** Show message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | From the staff’s page, staff clicks “Nhập từ Excel” link. | Show “Nhập từ excel” page with 2 buttons:   * “Chọn file” button. * “Tải lên” button. | | 2 | From “Nhập từ excel” page, staff clicks “Chọn file” button, then clicks “Mở”. | System will get file path and show on text box. | | 3 | Staff clicks “Tải lên” button | File is uploaded to server, then redirect back to “Nhập từ excel” page, contains:  \* “Danh sách sản phẩm” tab :   * A 4-columns table show detail of product in excel file. Column header includes:   + “STT” label.   + “Tên sản phẩm” label.   + “Tên chợ” label.   + “Giá (Ngàn đồng)” label. * “Lưu” button. * “Hủy” button.   \* “Sản phẩm lỗi” tab.  \* “Sản phẩm trùng” tab.  [Exception 1, 2, 3, 4, 5] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on “Hủy” button to cancel. | No product is added. System will return back to “Nhập từ excel” page. | | 2 | Click on “Lưu” button to finish. | Save products to database |   **Exceptions:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Product input is wrong format | Display error message: “File không đúng định dạng”. | | 2 | Product name is not in range [5, 100]. | Display error message: “Tên sản phẩm phải từ 5 đến 100 ký tự”. | | 3 | Market name is not in range [5, 100]. | Display error message: “Tên chợ phải từ 5 đến 100 ký tự”. | | 4 | Price is not in range [1, 10000]. | Display error message: “Giá sản phẩm phải từ 1 đến 10000”. | | 5 | File has more than 5 errors | Display number of error rows. |   **Relationships:** Manage Product, Create Product.  **Business Rules:**   * Valid file format :      * Format file is excel (.xlsx) * File has less than 5 errors. * File has more than 5 errors. Display list error rows. | | | |

Table 17: <Staff> Import File

##### Save error products

Use Case Specification

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| **USE CASE – SB014** | | | |
| **Use Case No.** | SB014 | **Use Case Version** | 1.0 |
| **Use Case Name** | Save error products | | |
| **Author** | Tran Trung Dung | | |
| **Date** | 17/04/2014 | **Priority** | High |
| **Actor:**   * Staff   **Summary:**   * This use case allows staff to update product information.   **Goal:**   * New information will be updated to selected product.   **Triggers:**   * Staff wants to update product information. * To update an error product, staff must do the following steps:   + Edit product information.   + Choose the file, click “Lưu” button.   **Preconditions:**   * User must log in the system with staff role.   **Post Conditions:**   * **Success**:   +Error product will be moved to duplicate products list or correct products list. Then show success message.  + New information will be updated to selected product.   * **Fail:** Nothing is updated. Show error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Refer to usecase SB013 | File is uploaded to server, then redirect back to “Nhập từ excel” page, contains:  \* “Danh sách sản phẩm” tab :   * A 4-columns table show detail of product in excel file. Column header includes:   + “STT” label.   + “Tên sản phẩm” label.   + “Tên chợ” label.   + “Giá (Ngàn đồng)” label. * “Lưu” button. * “Hủy” button.   \* “Sản phẩm lỗi” tab.  \* “Sản phẩm trùng” tab. | | 2 | Click “Sản phẩm lỗi” in menu tab. | Redirect to Error products list Page, include table product ,for each row:   * + “STT” : label   + “Tên sản phẩm”: textbox (min length: 5 max length: 100, required). “Tên chợ”: textbox (min length: 5 max length: 100, required).   + “Giá”: textbox (min length: 5 max length: 100, required).   + “Lưu” button. | | 3 | Edit product information. Then click “Lưu” button | Product information will be updated.  The system will be compared this product name with products in duplicate products list and correct products list. Then move this product to duplicate products list or correct products list.  [Exception 1, 2, 3] |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Product name is not in range [5, 100]. | Display error message: “Tên sản phẩm phải từ 5 đến 100 ký tự”. | | 2 | Market name is not in range [5, 100]. | Display error message: “Tên chợ phải từ 5 đến 100 ký tự”. | | 3 | Price is not in range [1, 10000]. | Display error message: “Giá sản phẩm phải từ 1 đến 10000”. |   **Relationships:** Login, Import File.  **Business Rules:**  - Compare products by product name with algorithms:  + Create a function *pairs(s)* which returns a list of adjacent character pairs of string *s*.  +Then, we use below formula to calculate matching percent. | | | |

##### Process duplicate products

Use Case Specification

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| **USE CASE – SB015** | | | |
| **Use Case No.** | SB015 | **Use Case Version** | 1.0 |
| **Use Case Name** | Process duplicate products | | |
| **Author** | Tran Trung Dung | | |
| **Date** | 17/04/2014 | **Priority** | High |
| **Actor:**   * Staff   **Summary:**   * This use case allows staff to join or divide products.   **Goal:**   * Duplicate products will be joined or divided.   **Triggers:**   * Staff wants to join or divide products. * To join products, staff must do the following steps:   + Select at least 2 products.   + Click “Gộp” button. * To divide products, staff must do the following steps:   + Select products by checkbox.   + Click “Tách” button.   **Preconditions:**   * User must log in the system with staff role.   **Post Conditions:**   * **Success**: Products will be moved to correct products list. * **Fail:** Nothing is changed. Show error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Refer to usecase SB013 | File is uploaded to server, then redirect back to “Nhập từ excel” page, contains:  \* “Danh sách sản phẩm” tab :   * A 4-columns table show detail of product in excel file. Column header includes:   + “STT” label.   + “Tên sản phẩm” label.   + “Tên chợ” label.   + “Giá (Ngàn đồng)” label. * “Lưu” button. * “Hủy” button.   \* “Sản phẩm lỗi” tab.  \* “Sản phẩm trùng” tab. | | 2 | Click “Sản phẩm trùng” in menu tab. | Redirect to duplicate products list Page, include:  \* 3 button :   * + “Gộp tất cả”: button.   + “Tách tất cả”: button.   + “Lưu file”: button   \* table duplicate products ,for each row:   * + Checkbox : checkbox   + “Tên sản phẩm”: label.   + “Tên chợ”: label.   + “Giá”: label.   + “Chọn giá”: radio.   + “Gộp”: button.   + “Tách”: button. | | 3 | Select products by checkbox. Then click “Gộp” button | Selected products will be joined. And move to correct products list.  [Exception 1] | | 4 | Select products by checkbox. Then click “Tách” button | Selected products will be divided. And move to correct products list. |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on “Lưu file” button. | Duplicate products name will be recorded to log file. | | 2 | Click on “Gộp tất cả” button. | All products on each table will be joined. | | 3 | Click on “Tách tất cả” button. | All products on each table will be divided. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Select at least 2 products | Display error message: “Vui lòng chọn ít nhất 2 sản phẩm”. |   **Relationships:** Login, Import File.  **Business Rules:**  - Products will be joined by product name and seceded by “;”. | | | |

##### Save correct products

Use Case Specification

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| **USE CASE – SB016** | | | |
| **Use Case No.** | SB016 | **Use Case Version** | 1.0 |
| **Use Case Name** | Log file | | |
| **Author** | Tran Trung Dung | | |
| **Date** | 17/04/2014 | **Priority** | High |
| **Actor:**   * Staff   **Summary:**   * This use case allows staff to import data from excel files.   **Goal:**   * Create many products from imported files.   **Triggers:**   * Staff wants to create many products by importing excel files. * To import a file, staff must do the following steps:   + Click “Nhập từ excel” menu.   + Choose the file, click “Tải lên” button.   **Preconditions:**   * User must log in the system with staff role.   **Post Conditions:**   * **Success**: Products will be compared with database.   **+** If products not available in database will be added to the database. Show success message.  **+** If products available in database will be moved to duplicate products list.   * **Fail:** Nothing is saved to the database. Show error list.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Refer to usecase SB013 | File is uploaded to server, then redirect back to “Nhập từ excel” page, contains:  \* “Danh sách sản phẩm” tab :   * A 4-columns table show detail of product in excel file. Column header includes:   + “STT” label.   + “Tên sản phẩm” label.   + “Tên chợ” label.   + “Giá (Ngàn đồng)” label. * “Lưu” button. * “Hủy” button.   \* “Sản phẩm lỗi” tab.  \* “Sản phẩm trùng” tab. | | 2 | Click “Danh sách sản phẩm” in menu tab. | File is uploaded to server, then redirect back to “Nhập từ excel” page, contains:   * A 4-columns table show detail of product in excel file. Column header includes:   + “STT” label.   + “Tên sản phẩm” label.   + “Tên chợ” label.   + “Giá (Ngàn đồng)” label. * “Lưu” button. * “Hủy” button.   [Exception 1, 2, 3] | | 3 | Staff clicks “Lưu” button to save product. [Alternative 1] | Compare products in correct products list with database by product name.  Duplicate products will be moved to duplicate products list. Else, save products to database. [Exception 4] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Click on “Hủy” button to finish. | No product is added. System will return back to “Nhập từ excel” page. |   **Exceptions:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Product name is not in range [5, 100]. | Display error message: “Tên sản phẩm phải từ 5 đến 100ký tự”. | | 2 | Market name is not in range [5, 100]. | Display error message: “Tên chợ phải từ 5 đến 100ký tự”. | | 3 | Price is not in range [1, 10000]. | Display error message: “Giá sản phẩm phải từ 1 đến 10000”. | | 4 | Fail to insert to database. | Display error message: “Có lỗi xảy ra. Vui lòng thử lại sau”. |   **Relationships:** Login, Import File.  **Business Rules:**  - Compare products by product name with algorithms:  + Create a function *pairs(s)* which returns a list of adjacent character pairs of string *s*.  +Then, we use below formula to calculate matching percent. | | | |

##### Log file

Use Case Specification

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| **USE CASE – SB017** | | | |
| **Use Case No.** | SB017 | **Use Case Version** | 1.0 |
| **Use Case Name** | Process duplicate products | | |
| **Author** | Tran Trung Dung | | |
| **Date** | 17/04/2014 | **Priority** | High |
| **Actor:**   * Staff   **Summary:**   * This use case allows staff to create log file of duplicate products.   **Goal:**   * Log file will be generated.   **Triggers:**   * Staff wants to create log file of duplicate products. * To create log file, staff must do:   + Click “Lưu file” button.   **Preconditions:**   * User must log in the system with staff role.   **Post Conditions:**   * **Success**: Log file will be generated. Show message * **Fail:** Nothing is changed. Show error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Refer to usecase SB013 | File is uploaded to server, then redirect back to “Nhập từ excel” page, contains:  \* “Danh sách sản phẩm” tab :   * A 4-columns table show detail of product in excel file. Column header includes:   + “STT” label.   + “Tên sản phẩm” label.   + “Tên chợ” label.   + “Giá (Ngàn đồng)” label. * “Lưu” button. * “Hủy” button.   \* “Sản phẩm lỗi” tab.  \* “Sản phẩm trùng” tab. | | 2 | Click “Sản phẩm trùng” in menu tab. | Redirect to duplicate products list Page, include:  \* 3 button :   * + “Gộp tất cả”: button.   + “Tách tất cả”: button.   + “Lưu file”: button   \* table duplicate products ,for each row:   * + Checkbox : checkbox   + “Tên sản phẩm”: label.   + “Tên chợ”: label.   + “Giá”: label.   + “Chọn giá”: radio.   + “Gộp”: button.   + “Tách”: button. | | 3 | Click “Lưu file” button | Products in duplicate products list will be compared with database.  Duplicate products name will be recorded to log file. |   **Alternative Scenario:** N/A  **Exceptions:** N/A  **Relationships:** Login, Import File.  **Business Rules:**  - Name of product will be recorded by each row of each table and seceded by “;”.  - Compare products by product name with algorithms:  + Create a function *pairs(s)* which returns a list of adjacent character pairs of string *s*.  +Then, we use below formula to calculate matching percent. | | | |