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| **USE CASE – SB001** | | | |
| **Use Case No.** | SB001 | **Use Case Version** | 2.0 |
| **Use Case Name** | Search Laptop | | |
| **Author** | Dinh Huu Toan | | |
| **Date** | 18/05/2015 | **Priority** | High |
| **Actor:**   * Guests   **Summary:**   * This use case allows guest to search and view laptops brief information.   **Goal:**   * A list of appropriate laptops will be shown to user.   **Triggers:**   * Guest wants to search for laptops. * Input search text to search textbox then click “Search”.   **Preconditions:**   * N/A.   **Post Conditions:**   * **Success:** A list of appropriate laptops is shown along with laptops’ information: name, review statistic, price, and images. * **Fail:** Show an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest inputs the laptop’s name into textbox or they can leave it empty. |  | | 2 | Guest clicks “Search” button | * System will show a list of appropriate laptops as a grid which contains 3 laptops in one row and order by product name. [Alternative 1] * A laptop will show in a square frame with following information: * Laptop’s image * Name * Review statistic (Number of Positive/Negative/Neutral reviews) * Link to detail page |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | System cannot find searched laptops | * System will show a dialog with message: “This laptop is not available. Would you like to receive information about this laptop when it’s available?”, a textbox for inputting email, and “Submit”/”No, Thanks!” buttons |   **Exceptions:** N/A  **Relationships:** N/A  **Business Rules:**   * Guest can leave the search textbox empty, then all laptops should be listed. * Results will be shown in alphabetical order for easy search | | | |

2. <Guest> View laptop detail

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| **USE CASE – SB002** | | | |
| **Use Case No.** | SB002 | **Use Case Version** | 2.0 |
| **Use Case Name** | View laptop detail | | |
| **Author** | Dinh Huu Toan | | |
| **Date** | 18/05/2015 | **Priority** | High |
| **Actor:**   * Guests   **Summary:**   * This use case allow guests to read laptop full details.   **Goal:**   * Show all details of choosing laptop.   **Triggers:**   * Guest wants to read laptop details includes: name, reviews, specs, price (if available). * Click “Details” link on each result found.   **Preconditions:**   * N/A.   **Post Conditions:**   * **Success:** Navigate to new page shows laptops’ information: name, reviews statistic, price, and images. * **Fail:** Show an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest clicks “Detail” link on one result | * Navigate to “Detail” page with following information:   + Name of laptop   + Image slide show   + Statistic: number of Positive/Negative/Neutral reviews   + Specs   + Reviews   + Suggested laptops |   **Alternative Scenario:** N/A  **Exceptions:** N/A  **Relationships:** Search Laptop  **Business Rules:**   * Details of laptop should be organized well so that guest can easily read them. | | | |

3. <Guest> Login

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| **USE CASE – SB003** | | | |
| **Use Case No.** | SB003 | **Use Case Version** | 2.0 |
| **Use Case Name** | Login | | |
| **Author** | Dinh Huu Toan | | |
| **Date** | 18/05/2015 | **Priority** | Normal |
| **Actor:**   * Guest.   **Summary:**   * This use case allows guest to login to the system.   **Goal:**   * Allow authentication and authorization of the system.   **Triggers:**   * Guest want to login into system. * To login: Guests go to the login page, enter username and password, and click “Login” button to login.   **Preconditions:** N/A.  **Post Conditions:**   * Success: Guest is authorized, redirect to corresponding page. * Fail: System will show error on current page.   Main Success Scenario:   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Guest goes to login page. | System show a login form, includes:   * Username: textbox, min length: 6, max length: 30, required. * Password: textbox, password box, min length: 6, max length: 20, required. * Login button. | | 2 | Guess enter username and password into textboxes.  Press “Login” button. | Guest is logged into system, authorized with corresponding role. Redirect to corresponding page.  [Exception 1,2] |   **Alternative Scenario:** N/A  Exceptions:   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | No input in “Username” or “Password” textboxes | Show error message: “Please input username and password!” | | 2 | Username/Password not in range [5,30] | Show error message: “Invalid username or password! Please try again!” | | 3 | Input invalid “Username” and “Password” | Show error message: “Invalid username or password! Please try again!” |   **Relationships:** N/A  **Business Rules:**   * Only staff and admin can have accounts. * Only active accounts can log in. | | | |

4. <Staff> Activate Parser

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| **USE CASE – SB025** | | | |
| **Use Case No.** | SB004 | **Use Case Version** | 2.0 |
| **Use Case Name** | Activate Parser | | |
| **Author** | Dinh Huu Toan | | |
| **Date** | 18/05/15 | **Priority** | High |
| **Actor:**   * Staff.   **Summary:**   * This use case allows staff to activate a parser   **Goal:**   * Selected parser will be activated.   **Triggers:**   * Staff wants to activate a parser in the system. * Staff clicks “Manage parser” menu, then clicks “Activate” button.   **Preconditions:**   * User has logged in with staff role.   **Post Conditions:**   * **Success**: Selected parser is activated. Show success message. * **Fail:** Show error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Staff clicks “Manage parser” menu. | Show “Manage parser” page which includes:   * A table with 4 columns:   + No   + Parsed links   + Status   + Action | | 2 | Staff clicks “Activate” button. [Exception 1] | That parser is activated. The button text is changed into “Deactivate”. Show success message. |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Error while activating parser. | Show error message. |   **Relationships:** N/A  **Business Rules:** N/A | | | |

5. Deactivate parser

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| **USE CASE – SB024** | | | |
| **Use Case No.** | SB005 | **Use Case Version** | 2.0 |
| **Use Case Name** | Deactivate Parser | | |
| **Author** | Dinh Huu Toan | | |
| **Date** | 18/05/15 | **Priority** | High |
| **Actor:**   * Staff.   **Summary:**   * This use case allows staff to deactivate a parser   **Goal:**   * Selected parser will be deactivated.   **Triggers:**   * Staff wants to deactivate a parser in the system. * Staff clicks “Manage parser” menu, then clicks “Deactivate” button.   **Preconditions:**   * User has logged in with staff role.   **Post Conditions:**   * **Success**: Selected parser is deactivated. Show success message. * **Fail:** Show error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Staff clicks “Manage parser” menu. | Show “Manage parser” page which includes:   * A table with 4 columns:   + No   + Parsed links   + Status   + Action | | 2 | Staff clicks “Deactivate” button. [Exception 1] | That parser is deactivated. The button text is changed into “Activate”. Show success message. |   **Alternative Scenario:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Error while deactivating parser. | Show error message. |   **Relationships:** N/A  **Business Rules:** N/A | | | |

6. <Staff> Train machine – Merge

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| **USE CASE – SB026** | | | |
| **Use Case No.** | SB006 | **Use Case Version** | 2.0 |
| **Use Case Name** | Merge Laptop | | |
| **Author** | Dinh Huu Toan | | |
| **Date** | 18/05/15 | **Priority** | High |
| **Actor:**   * Staff   **Summary:**   * This use case allows staff to merge duplicated laptop names.   **Goal:**   * Training machine to merge product names which are duplicated.   **Triggers:**   * Staff wants to train machine to merge product names which are duplicated. * To train machine, staff must do the following steps:   + Click “Manage duplicated items” menu.   + Select products and click “Merge” button   **Preconditions:**   * User must log in the system with staff role.   **Post Conditions:**   * **Success**: Laptops will be saved to the database. Show success message. * **Fail:** Nothing is saved to the database. Show error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | From the staff’s page, staff clicks “Manage duplicated items” link. | System will get log file and show “Manage duplicated items” page with tables has 3 columns:   * Checkbox. * Laptop names. * Radio button   [Alternative 1] | | 2 | Staff selects products on checkbox and select main product on radio button to merge, then click “Merge” button. | * System will save checked products with products’ ids equal to product’s id of main product. * System will show a message: “Merge successfully”.   [Alternative 2] [Exceptions 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Log file is empty. | System will show a message: “No data found”. | | 2 | Staff selects products on checkbox and select main product on radio button to merge, then click “Merge” button. | * If product does not exist in the database, then add new dictionary. * System will show a message: “Merge successfully”.   [Exceptions 1] |   **Exceptions:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | Fail to insert or update to database. | Display error message: “An error occurred. Please try again later!” |   **Relationships:**   * Auto parse data * Force parse data   **Business Rules:**   * A laptop can have many names. Merging should base on the most common name | | | |

7. <Staff> Train machine – Split

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| **USE CASE – SB007** | | | |
| **Use Case No.** | SB007 | **Use Case Version** | 2.0 |
| **Use Case Name** | Split products | | |
| **Author** | Dinh Huu Toan | | |
| **Date** | 18/05/15 | **Priority** | High |
| **Actor:**   * Staff   **Summary:**   * This use case allows staff to split duplicated laptop names.   **Goal:**   * Training machine to split product names which are duplicated.   **Triggers:**   * Staff wants to train machine to split product names which are duplicated. * To train machine, staff must do the following steps:   + Click “Manage duplicated items” menu.   + Select products and click “Split” button   **Preconditions:**   * User must log in the system with staff role.   **Post Conditions:**   * **Success**: Laptops will be saved to the database. Show success message. * **Fail:** Nothing is saved to the database. Show error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | From the staff’s page, staff clicks “Manage duplicated items” link. | System will get log file and show “Manage duplicated items” page with tables has 3 columns:   * Checkbox. * Laptop Names. * Radio button   [Alternative 1] | | 2 | Staff selects products on checkbox to split, then click “Split” button. | * System will add new product to database. * System will show a message: “Split successfully”.   [Alternative 2] [Exceptions 1] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Log file is empty. | System will show a message: “No data found” | | 2 | Staff selects products on checkbox to split, then click “Split” button. | If product is already in the database, update its information. [Exceptions 1] |   **Exceptions:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Fail to insert or update to database. | Display error message: “An error occurred. Please try again later!” |   **Relationships:**   * Auto parse data * Force parse data   **Business Rules:** Some different laptops have similar name. | | | |

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| **USE CASE – SB001** | | | |
| **Use Case No.** | SB001 | **Use Case Version** | 2.0 |
| **Use Case Name** | Search Laptop | | |
| **Author** | Dinh Huu Toan | | |
| **Date** | 18/05/2015 | **Priority** | High |
| **Actor:**   * Guests   **Summary:**   * This use case allows guest to search and view laptops brief information.   **Goal:**   * A list of appropriate laptops will be shown to user.   **Triggers:**   * Guest wants to search for laptops’ information. * Guest can choose brand of the laptops to maximize the search result. * Input laptop name into search textbox then click “Search”.   **Preconditions:**   * N/A.   **Post Conditions:**   * **Success:** A list of appropriate laptops is shown along with laptops’ information: name and percentage of positive comments. * **Fail:** Show an error message.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | Guest inputs the laptop’s name into textbox, choose the brand or they can leave it empty. |  | | 2 | Guest clicks “Search” button | * System will show a list of appropriate laptops as a grid which contains 3 laptops in one row.[Alternative 1] * A laptop will show in a square frame with following information: * Laptop’s image * Name * Percentage of positive comments * Link to detail page |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | System cannot find searched laptops | * System will show a pop-up. In that pop-up include: a message: “This laptop is not available. Would you like to receive information about this laptop when it’s available?”, a textbox for inputting email, and “Submit”/”No, Thanks!” buttons |   **Exceptions:** N/A  **Relationships:** N/A  **Business Rules:**   * Guest can leave the search textbox empty, then all laptops available in the database should be listed. * Guest can choose Brand when searching to maximize the result * Results will be ordered by matching percentage * Results will be shown in alphabetical order for easy search | | | |