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| BOOKSTORE MANAGEMENT SYSTEM |
| User Guide |
| v1/2 |

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**Record of Changes**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | A\* M, D | In charge | Change Description |
| 20/05/2023 | A |  | First creating, add System Requirements |
| 25/05/2023 | M |  | Modify Manage User, Manage Book Purchase function |
| 08/06/2023 | M |  | Modify Manage Regulation |
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\*A - Added M - Modified D - Deleted

# Release Package & User Guides

## Deliverable Package

|  |  |
| --- | --- |
| **Report number** | **Title** |
| RP-1 | Software Requirement Specification *for Bookstore Management System* |
| RP-2 | Software Design Document *for Bookstore Management System* |
| RP-3 | Vision and Scope Document *for Bookstore Management System* |
| RP-4 | Business Rules *for Bookstore Management System* |
| RP-5 | Test Report |
| RP-6 | User Guide |

## System Requirements

2. 1. Requirements for equipment

* PC Desktop/Laptop
  1. Requirements remain connected
* During use, the program is required to maintain the connection to the Internet via Wi-Fi or 3G.

## User Manual

1. 1. Overview
   2. Homepage screen:

A screenshot of a computer

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The website allows users to log in to their provided accounts to use the bookstore management functions. The bookstore management system will help in maintaining the details of the books available, customers details, details of the books given on rent, sales record, employee's details and many other details can be mentioned in this system.

### A screenshot of a computer Description automatically generatedLogin

|  |  |
| --- | --- |
| ID and Name | LG-Login |
| Created By |  |
| Primary Actor | User |
| Description | When user already have an account and need to log in to the website. |
| Trigger | User click to button “Sign in” |
| Precondition | User’s device must connect to Internet  User’s account existed |
| Postcondition | User get a notification about sign in successful.  User redirected to home page and user can use services |
| Normal Flow | 1. User click on sign in button 2. System display sign-in page 3. User enter email & password and click confirm. 4. System validate email & password in correct format. 5. System validate User’s input data with existed account data in database. 6. System store sign-in status using sessions. 7. System displays successful signed-in and redirect to home page. 8. System save customers sign-in status |
| Alternative Flows | 3a. System display invalid information due to wrong format.  User continue at step 2.  4a. System display invalid information due to User’s account information does not match with existed account information in database.  User continue at step 2. |
| Exceptions |  |
| Priority | High |
| Frequency Of Use | Frequent |
| Business Rules |  |
| Other Information |  |
| Assumptions |  |

### A screenshot of a computer Description automatically generated3.3 Manage Regulation

|  |  |
| --- | --- |
| ID and Name | MR-Manage Regulation |
| Created By |  |
| Primary Actor | Manager |
| Description | Manager can add/update/delete/search regulation |
| Trigger | Manager clicks to menu at “Book Rental” page |
| Precondition | Manager’s device must connect to Internet  Manager’s account existed  Manager’s status is signed-in |
| Postcondition | Regulation successfully updated in database (Add/Delete/Update)  Data at Manage Regulation is filter and displayed to Manager |
| Normal Flow | 1. System display Regulation management page with data loaded from database  2. Manager chooses one function: Add/Update/Delete/Search Regulation.  - **Add Regulation**  3. System displays Regulation information form  4. Manager enters Regulation information and click submit  5. System validates Regulation information is in correct format  6. System validates Regulation information with existed data in database  7. System stores Regulation information in database  8. System displays successful notification and displays Regulation management information  **- Update Regulation**  9. Manager chooses one Regulation to be updated.  10. System displays Regulation information page.  11. Manager modifies Regulation information and clicks submit.  12. System validates Regulation in correct format.  13. System validates Regulation with existed in database.  14. System stores Book information in database.  15. System displays successful notification and displays Regulation management page.  **- Delete Regulation**  16. Manager chooses one Regulation to be deleted.  17. System shows confirm dialogue  18. Manager confirms delete request  19. System processes delete request  20. System validates no external data required Regulation and selected item existed in database  21. System deletes Regulation in the database  22. System updates data at Regulation management page with selected item deleted.  **- Search Regulation**  23. Manager selects search function and enters keywords  24. System processes Search request  25. System queries data related to keywords  26. System displays filtered data at Manage Regulation page |
| Alternative Flows | 5a. System displays invalid information due to wrong format  Manager continue at step 4  6b. System displays invalid information due to data had been existed in the database  Manager continue at step 4  12a: System displays invalid information due to wrong format.  Manager at step 11  13a: System displays invalid information because data hadn’t been existed in the database.  Manager continues at step 11 |
| Exceptions | 18a: Function stop because the manager doesn’t confirm to delete  21a: System displays error notification because external data had required that Regulation or no data existed. Function stop.  26a: System display empty result notification because there is/are no data existed related to the keywords. Function stop |
| Priority | High |
| Frequency Of Use | Infrequent |
| Business Rules | BR-6 User (Manager) can alter the previous constraints  BR-7 Only Manager can use all functions of the system  BR-9 Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |

### A screenshot of a computer Description automatically generated3.4 Manage Book

|  |  |
| --- | --- |
| ID and Name | MB-Manage Book |
| Created By |  |
| Primary Actor | Manager/ Employee |
| Description | Manager/Employee can add/update/delete/search book information |
| Trigger | Manager clicks to menu at “Manage Book” page |
| Precondition | Manager’s/Employee’s device must connect to Internet.  Manager’s/Employee’s account existed.  Manager’s/Employee’s status is signed-in |
| Postcondition | Book information successfully updated in database (Add/Delete/Update)  Data at Book management page is filter and displayed to Manager/Employee |
| Normal Flow | 1. System display Book management page with data loaded from database 2. Manager/Employee chooses one function: Add/Update/Delete/Search Book  * **Add Book:**  1. System displays Book information form 2. Manager/Employee enters Book information and click submit 3. System validates book information is in correct format 4. System validates book information with existed data in database 5. System stores book information in database 6. System displays successful notification and displays Book information  * **Update Book:**  1. Employee chooses one book to be updated. 2. System displays Book information page. 3. Employee modifies Book information and clicks submit. 4. System validates Book information in correct format.. 5. System validates Book information with existed in database. 6. System stores Book information in database. 7. System displays successful notification and displays Manage Book page  * **Delete Book:**  1. Manager/Employee chooses one book to be deleted. 2. System shows confirm dialogue 3. Manager/Employee confirms delete request 4. System processes Delete request 5. System validates no external data required Book information and selected item existed in database 6. System deletes Book information in the database 7. System updates data at Manage Book page with selected item deleted.  * **Search Book**  1. Manager/Employee selects search function and enters keywords 2. System processes Search request 3. System queries data related to keywords 4. System displays filtered data at Manage Book page |
| Alternative Flows | 5a. System displays invalid information due to wrong format  Manager/Employee continues at step 4  6b. System displays invalid information due to data had been existed in the database  Manager/Employee continues at step 4  12a: System displays invalid information due to wrong format.  Manager/Employee continues at step 11  13a: System displays invalid information because data hadn’t been existed in the database.  Manager/Employee continues at step 11 |
| Exceptions | 18a: Function stops because the employee don’t confirm to delete  21a: System displays error notification because external data had required that customer information or no data existed. Function stops  26a: System displays empty result notification because there is/are no data existed related to the keywords. Fuction stops |
| Priority | High |
| Frequency Of Use | Frequent |
| Business Rules | BR-1. Minimun Quantity is 150. Only import book that the available quantity in stock is smaller than 300  BR-9. Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |

### 3.5 Manage Book Purchase

A screenshot of a computer

Description automatically generated

|  |  |
| --- | --- |
| ID and Name | MBP-Manage Book Purchase |
| Created By |  |
| Primary Actor | Manager/ Employee |
| Description | Manager/Employee can Create Order, Paid Debt and Search Invoice |
| Trigger | Manager/Employee clicks to menu at “Book Purchase” page |
| Precondition | Manager’s/Employee’s device must connect to Internet  Manager’s/Employee’s account existed  Manager’s/Employee’s status is signed-in |
| Postcondition | Order information successfully updated in database (Create Order)  New customer information successfully updated in database (Create Order)  Debt information successfully updated in database (Paid Debt)  Data at Book purchase page is filter and displayed to Manager/Employee |
| Normal Flow | 1. System display Book purchase page with data loaded from database  2. Manager/Employee chooses one function: Create Order/Paid debt/Search Invoice  **− Create Order**  3. System displays Create order form  4. Manager/Employee enters Phone number of customer  5. System processes Search request  6. System queries data related to phone number  7. System displays found customer notification and displays create order form.  8. Manager/Employee enters Voucher ID  9. System processes Search request  10. System queries data related to Voucher ID  11. Manager/Employee selects books and quantity  12. System displays cost of invoice  13. Manager/Employee choose Paid/Debt service.  **- Paid**  14. System stores invoice information in database  15. System displays successful notification and displays Book purchase page  **- Debt**  16. System stores invoice and receipt information in database  17. System displays successful notification and displays Book purchase page  18. System display new create order form for add new customer and create invoice  19. Manager/Employee enters customer information  20. System validates customer information is in correct format  21. Manager/Employee enters Voucher ID  22. System processes Search request  23. System queries data related to Voucher ID  24. Manager/Employee selects books and quantity  25. 25. System displays cost of invoice  26. Manager/Employee choose Paid/Debt service  **- Paid**  27. System stores invoice, customer information in database  28. System displays successful notification and displays Book purchase page  **- Debt:**  29. System stores invoice, customer and receipt information in database  30. System displays successful notification and displays Book purchase page  **− Pay Debt**  31. Manager/Employee chooses one invoice to be paid debt.  32. System display detail invoice page.  33. Manager/Employee enters paid amount and clicks submit.  34. System validates data in correct format..  35. System stores receipt information in database.  36. System displays successful notification and displays Book purchase page  − Search Invoice  37. Manager/Employee selects search function and enters keywords.  38. System processes Search request  39. System queries data related to keywords  40. System displays filtered data at Book purchase page |
| Alternative Flows | 6a. System displays empty result notification.  Manager/Employee continue at step 18  10a. System displays empty result notification.  Manager/Employee continue at step 11  20a. System displays invalid information due to wrong format.  Manager/Employee continue at step 19  23a. System displays empty result notification.  Manager/Employee continue at step 24  34a. System displays invalid information due to wrong format.  Manager/Employee continue at step 33  40a. System displays empty result notification.  Manager/Employee continue at step 41(no data is retained) |
| Exceptions |  |
| Priority | High |
| Frequency Of Use | Frequent |
| Business Rules | BR-2 Only sells for customers whose debt is not higher than 20.000 and the available stock of books which are sold is at least 20. Sales unit price = 105% \* import unit price  BR-3 Paid amount can’t be higher than the debt amount  BR-7 Only Manager can use all functions of the system  BR-9 Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |

### 3.6 Manage Book Rental

A screenshot of a computer

Description automatically generated

|  |  |
| --- | --- |
| ID and Name | MBR-Manage Book Rental |
| Created By |  |
| Primary Actor | Manager/ Employee |
| Description | Manager/Employee can Create rent receipt, Confirm return and Search rent receipt |
| Trigger | Manager/Employee clicks to menu at “Book Rental” page |
| Precondition | Manager’s/Employee’s device must connect to Internet  Manager’s/Employee’s account existed  Manager’s/Employee’s status is signed-in |
| Postcondition | Data at Book rental page is filter and displayed to Manager/Employee |
| Normal Flow | 1. System display Book purchase management page with data loaded from database 2. Manager/Employee chooses one function: Create Rent Receipt/Confirm return /Search Rent Receipt   **- Create Rent Receipt:**   1. System displays Create Rent Receipt form 2. Manager/Employee enters Phone number of customer 3. System processes Search request 4. System queries data related to phone number 5. Manager/Employee selects books and quantity 6. System displays cost of invoice  * **Search Rent Receipt:**  1. Manager/Employee selects search function and enters keywords. 2. System processes Search request 3. System queries data related to keywords 4. System displays filtered data at Book Rental page |
| Alternative Flows | 5a. System displays invalid information due to wrong format  Use-case continues at step 4  6b. System displays invalid information due to data had been existed in the database  Use-case continues at step 4  12a: System displays invalid information due to wrong format.  User continues at step 11  13a: System displays invalid information because data hadn’t been existed in the database.  Use-case continues at step 11 |
| Exceptions |  |
| Priority | High |
| Frequency Of Use | Frequent |
| Business Rules | BR-2 Only rent for customers whose debt is not higher than 20.000 and the available stock of books which are sold is at least 20. SalSaless unit price = 105%\* 105%import unit price  BR-7 Only Manager can use all functions of the system  BR-9 Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |

### A screenshot of a computer Description automatically generated3.7 Manage Customer

|  |  |
| --- | --- |
| ID and Name | MC-Manage Customer |
| Created By |  |
| Primary Actor | Manager/ Employee |
| Description | Manager/Employee can add/update/delete/search customer information |
| Trigger | Manager/Employee clicks to menu at “Manage Customer” page |
| Precondition | Manager’s/Employee’s device must connect to Internet  Manager’s/Employee’s account existed  Manager’s/Employee’s status is signed-in |
| Postcondition | Customer information successfully updated in database (Add/Delete/Update)  Data at Customer management page is filter and displayed to Manager/Employee |
| Normal Flow | 1. System displays Manage Customer page with data loaded from database 2. Manager/Employee chooses one function: Add/Update/Delete/Search Customer  * **Add Customer:**  1. System displays Customer information form 2. Manager/Employee enters Customer information and click submit 3. System validates customer information is in correct format 4. System validates customer information with existed data in database 5. System stores customer information in database 6. System displays successful notification and displays Customer management information   **- Update Customer:**   1. Employee chooses one customer to be updated. 2. System displays customer information page. 3. Employee modifies customer information and clicks submit. 4. System validates customer information in correct format.. 5. System validates customer information with existed in database. 6. System stores customer information in database. 7. System displays successful notification and displays Manage Customer page.  * **Delete Customer:**  1. Manager/Employee chooses one customer to be deleted. 2. System shows confirm dialogue 3. Manager/Employee confirms delete request 4. System processes Delete request 5. System validates no external data required customer information and selected item existed in database 6. System deletes customer information in the database 7. System updates data at Manage Customer page with selected item deleted.  * **Search Customer:**  1. Manager/Employee selects search function and enters keywords 2. System processes Search request 3. System queries data related to keywords   System displays filtered data at Manage Customer page |
| Alternative Flows | 5a. System displays invalid information due to wrong format  Manager/Employee continues at step 4  6b. System displays invalid information due to data had been existed in the database  Manager/Employee continues at step 4  12a: System displays invalid information due to wrong format.  Manager/Employee continues at step 11  13a: System displays invalid information because data hadn’t been existed in the database.  Manager/Employee continues at step 11 |
| Exceptions | 18a: Function stops because the employee don’t confirm to delete  21a: System displays error notification because external data had required that customer information or no data existed. Function stops  26a: System displays empty resuslt notification because there is/are no data existed related to the keywords. Function stops |
| Priority | High |
| Frequency Of Use | Frequent |
| Business Rules | BR-2 Only rent for customers whose debt is not higher than 20.000 and the available stock of books which are sold is at least 20. Sales unit price = 105% \* import unit price  BR-7 Only Manager can use all functions of the system  BR-9 Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |

### A screenshot of a computer Description automatically generated3.8 Manage Discount Code

|  |  |
| --- | --- |
| ID and Name | MDC-Manage Discount Code |
| Created By |  |
| Primary Actor | Manager/ Employee |
| Description | Manager/Employee can add/update/delete/search Discount code information |
| Trigger | Manager/Employee clicks to menu at “Discount code” page |
| Precondition | Manager’s/Employee’s device must connect to Internet  Manager’s/Employee’s account existed  Manager’s/Employee’s status is signed-in |
| Postcondition | Discount code information successfully updated in database (Add/Delete/Update)  Data at Discount code management page is filter and displayed to Manager/Employee |
| Normal Flow | 1. System displays Discount code management page with data loaded from database 2. Manager/Employee chooses one function: Add/Update/Delete/Search voucher  * **Add Discount code:**  1. System displays Discount code information form 2. Manager/Employee enters Discount code information and click submit 3. System validates Discount code information is in correct format 4. System validates Discount code information with existed data in database 5. System stores Discount code information in database 6. System displays successful notification and displays Discount code management information  * **Update Discount code:**  1. Employee chooses one Discount code to be updated. 2. System displays Discount code information page. 3. Employee modifies Discount code information and clicks submit. 4. System validates Discount code information in correct format.. 5. System validates Discount code information with existed in database. 6. System stores Discount code information in database. 7. System displays successful notification and displays Discount code management page.  * **Delete Discount code:**  1. Manager/Employee chooses one Discount code to be deleted. 2. System shows confirm dialogue 3. Manager/Employee confirms delete request 4. System processes Delete request 5. System validates no external data required Discount code information and selected item existed in database 6. System deletes Discount code information in the database 7. System updates data at Discount code management page with selected item deleted.  * **Search voucher:**  1. Manager/Employee selects search function and enters keywords 2. System processes Search request 3. System queries data related to keywords   System displays filtered data at Discount code management page |
| Alternative Flows | 5a. System displays invalid information due to wrong format  Manager/Employee continues at step 4  6b. System displays invalid information due to data had been existed in the database  Manager/Employee continues at step 4  12a: System displays invalid information due to wrong format.  Manager/Employee continues at step 11  13a: System displays invalid information because data hadn’t been existed in the database.  Manager/Employee continues at step 11 |
| Exceptions | 18a: Use-case stop because the employee don’t confirm to delete  21a: System display error notification because external data had required that customer information or no data existed. Function stop  26a: System display empty result notification because there is/are no data existed related to the keywords. Function stop |
| Priority | High |
| Frequency Of Use | Infrequent |
| Business Rules | BR-7 Only Manager can use all functions of the system  BR-9 Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |

### 3.9 Manage Supplier

|  |  |
| --- | --- |
| ID and Name | MS-Manage Supplier |
| Created By |  |
| Primary Actor | Manager/ Employee |
| Description | Manager/Employee can add/update/delete/search Supplier information |
| Trigger | Manager/Employee clicks to menu at “Manage Supplier” page |
| Precondition | Manager’s/Employee’s device must connect to Internet  Manager’s/Employee’s account existed  Manager’s/Employee’s status is signed-in |
| Postcondition | Supplier information successfully updated in database (Add/Delete/Update)  Data at Manage Supplier page is filter and displayed to Manager/Employee |
| Normal Flow | 1. System display Manage Supplier page with data loaded from database 2. Manager/Employee chooses one function: Add/Update/Delete/Search Supplier  * **Add Supplier:**  1. System displays Supplier information form 2. Manager/Employee enters Supplier information and click submit 3. System validates Supplier information is in correct format 4. System validates Supplier information with existed data in database 5. System stores Supplier information in database 6. System displays successful notification and displays Manage Supplier information  * **Update Supplier:**  1. Employee chooses one Supplier to be updated. 2. System displays Supplier information page. 3. Employee modifies Supplier information and clicks submit. 4. System validates Supplier information in correct format.. 5. System validates Supplier information with existed in database. 6. System stores Supplier information in database. 7. System displays successful notification and displays Manage Supplier page.  * **Delete Supplier:**  1. Manager/Employee chooses one Supplier to be deleted. 2. System shows confirm dialogue 3. Manager/Employee confirm delete request 4. System processes Delete request 5. System validates no external data required Supplier information and selected item existed in database 6. System deletes Supplier information in the database 7. System updates data at Manage Supplier page with selected item deleted.  * **Search Supplier:**  1. Manager/Employee selects search function and enters keywords 2. System processes Search request 3. System queries data related to keywords   System displays filtered data at Manage Supplier page |
| Alternative Flows | 5a. System displays invalid information due to wrong format  Manager/Employee continue at step 4  6b. System displays invalid information due to data had been existed in the database  Manager/Employee continue at step 4  12a: System displays invalid information due to wrong format.  Manager/Employee continue at step 11  13a: System displays invalid information because data hadn’t been existed in the database.  Manager/Employee continues at step 11 |
| Exceptions | 18a: Function stop because the employee don’t confirm to delete  21a: System display error notification because external data had required that Supplier information or no data existed. Function stop  26a: System display empty result notification because there is/are no data existed related to the keywords. Function stop |
| Priority | High |
| Frequency Of Use | Infrequent |
| Business Rules | BR-7 Only Manager can use all functions of the system  BR-9 Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |

### A screenshot of a computer Description automatically generated3.10 Statistics

|  |  |
| --- | --- |
| ID and Name | ST-Statistics |
| Created By |  |
| Primary Actor | Manager/ Employee |
| Description | Manager/Employee can view chart on revenue, new customers, book sold.  Manager/ Employee can download inventory report/ debt report. |
| Trigger | Manager/Employee clicks to menu at home page |
| Precondition | Manager’s/Employee’s device must connect to Internet  Manager’s/Employee’s account existed  Manager’s/Employee’s status is signed-in |
| Postcondition | The data of the chart must be updated on a monthly basis. |
| Normal Flow | 1. The system displays the homepage with the data loaded from the database, including: line chart describing revenue, book sold, new customers and inventory report, debt report. 2. Employee chooses month for the report and choose function: inventory report/ debt report.  * **Download inventory report**  1. The system displays the inventory report page corresponding to the selected month. 2. Manager/ employee click the download button. 3. System displays confirm dialog. 4. Employee confirm download action. 5. The system displays a successful loading message as soon as the report file is finished loading and display inventory report page.  * **Download debt report:**  1. The system displays the debt report page corresponding to the selected month. 2. Manager/ employee click the download button. 3. System displays confirm dialog. 4. Employee confirm download action.   The system displays a successful loading message as soon as the report file is finished loading and display debt report page |
| Alternative Flows |  |
| Exceptions | 5a. Use-case stop because the employee don’t confirm to download inventory report.  6a. Use-case stop because the employee don’t confirm to download debt report. |
| Priority | High |
| Frequency Of Use | Frequent |
| Business Rules | BR-7 Only Manager can use all functions of the system  BR-9 Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |

### A screenshot of a computer Description automatically generated3.11 Manage User

|  |  |
| --- | --- |
| ID and Name | MU-Manage User |
| Created By |  |
| Primary Actor | Manager/ Supporter |
| Description | Manager/ Supporter can add/update/delete/search User information |
| Trigger | Manager/ Supporter clicks to menu at “Manage User” page |
| Precondition | Manager’s/ Supporter’s device must connect to Internet.  Manager’s/ Supporter’s account existed.  Manager’s/ Supporter’s status is signed-in |
| Postcondition | User information successfully updated in database (Add/Delete/Update)  Data at Manage User page is filter and displayed to Manager/Supporter |
| Normal Flow | 1. System display Manage User page with data loaded from database 2. Manager/Supporter chooses one function: Add/Update/Delete/Search User  * **Add User :**  1. System displays User information form 2. Manager/Supporter enters User information and click submit 3. System validates User information is in correct format 4. System validates User information with existed data in database 5. System stores User information in database 6. System displays successful notification and displays User management information  * **Update User:**  1. Manager/Supporter chooses one User to be updated. 2. System display User information page. 3. Manager/Supporter modifies User information and clicks submit. 4. System validates User information in correct format.. 5. System validates User information with existed in database. 6. System stores User information in database. 7. System displays successful notification and displays User management page.  * **Delete User:**  1. Manager/Supporter chooses one User to be deleted. 2. System shows confirm dialogue 3. Manager/Supporter confirm delete request 4. System processes Delete request 5. System validates no external data required User information and selected item existed in database 6. System deletes User information in the database 7. System updates data at User management page with selected item deleted.  * **Search User**  1. Manager/Supporter selects search function and enters keywords 2. System processes Search request 3. System queries data related to keywords 4. System displays filtered data at Manage User page |
| Alternative Flows | 5a. System displays invalid information due to wrong format  Manager/Supporter continue at step 4  6b. System displays invalid information due to data had been existed in the database  Manager/Supporter continue at step 4  12a: System displays invalid information due to wrong format.  Manager/Supporter continue at step 11  13a: System displays invalid information because data hadn’t been existed in the database.  Manager/Supporter continues at step 11 |
| Exceptions | 18a: Function stop because the employee don’t confirm to delete  21a: System display error notification because external data had required that User information or no data existed. Function stop  26a: System display empty result notification because there is/are no data existed related to the keywords. Function stop |
| Priority | High |
| Frequency Of Use | Infrequent |
| Business Rules | BR-7 Only Manager can use all functions of the system  BR-8 Supporter can manage user of the system  BR-9. Employee can use other manage functions except Manage regulation and Manage user |
| Other Information |  |
| Assumptions |  |