Sequence Diagram

Victoria Vavulina

Riku Toivanen

Monami Kirjavainen

Customer: Logged in customer user

User Interface

Application Logic

Database

1. Search Book by Title Keyword: The Customer searches for a book by entering a title keyword.
2. Search Books: User sends a search request.
3. Get Books by Title: Searching database with the search perimeter.
4. Return List of Books: Returns list of books that match the search.
5. Display Book with "See Details" Button: Shows the "See Details" button.
6. Show Book with "See Details" Button: Shows a book with a button that opens a detailed page if pressed.
7. Display Book with Disabled "See Details" Button: Shows a book with text that says, "Currently unavailable".
8. Show Book with Disabled "See Details" Button: User won't be able to open the details page on disabled books.
9. Click "See Details" Button: Opens a detailed page for the selected book.
10. Request Book Details: User sends a request to get a book.
11. Get Book by ID: Book gets searched from the database with the book ID.
12. Return Book Details and Penalty Status: Database sends back book details and if the user has any penalties.
13. Display "Reserve Book" Button: Shows the "Reserve Book" button.
14. Show "Reserve Book" Button: Shows a reserve book button for the user.
15. Display Return Overdue Book Warning: Displays an overdue book warning.
16. Show Return Overdue Book Warning: Displays an overdue book warning to the user.
17. Click "Reserve Book" Button: User presses reserve book button.
18. Reserve Book Request: Sends a request to reserve a book.
19. Create Reservation: Sends reservation to the database.
20. Return Reservation Data: Database sends out successful reservation data.
21. Display Reserved Book on Dashboard: Shows reserved book data.
22. Show Reserved Book on Dashboard: Shows user reserved book data.

sd SequenceDiagram1

Customer | User Interface | Application Logic | Database

1 : Search Book by Title Keyword
2 : Search Books
3 : Get Books by Title

alt CombinedFragment1

[Book Available]

4 : Return List of Books
5 : Display Book with "See Details" Button
6 : Show Book with "See Details" Button

[Book Unavailable]

7 : Display Book with Disabled "See Details" Button
8 : Show Book with Disabled "See Details" Button

9 : Click "See Details" Button
10 : Request Book Details
11 : Get Book by ID

alt CombinedFragment2

[No Penalty]

12 : Return Book Details and Penalty Status
13 : Display "Reserve Book" Button
14 : Show "Reserve Book" Button

[Penalty Exists]

15 : Display Return Overdue Book Warning
16 : Show Return Overdue Book Warning

17 : Click "Reserve Book" Button
18 : Reserve Book Request
19 : Create Reservation
20 : Return Reservation Data
21 : Display Reserved Book on Dashboard
22 : Show Reserved Book on Dashboard