Design

This is a design task and therefore the solution should be described with a diagram and not with code.

This Diagram represents the whole system and how it is working.

When the User enters the webpage the method read xml in the class booksDao is used to read the provided xml file. Further the Methods from the Catalog class are used in the GetBooksResource to display the List of books. From seeing the books List the User has the options to click a book which will lead to further Use Cases such as delete or editBook, where the User can click the Buttons and choose what he wants to do. If he chooses to edit or delete the book, the message would be sent back to booksDao and write a new xmlFile. When going back to the List with the books the User can choose to add a new Book by clicking the button and filling in all the needed details. A new ID (the new highest ID) will be given automatically (with the correct method) to the book and the xmlFile would be written newly.

Client

booksDao

write xmlFile

read xmlFile

Catalog

Catalog

List: books

getBooks

book

addBook

deleteBook

editBook