

LIBRARY SYSTEM

GROUP 9

VICTOR SEBASTIAN VALENCIA CORREA-986775

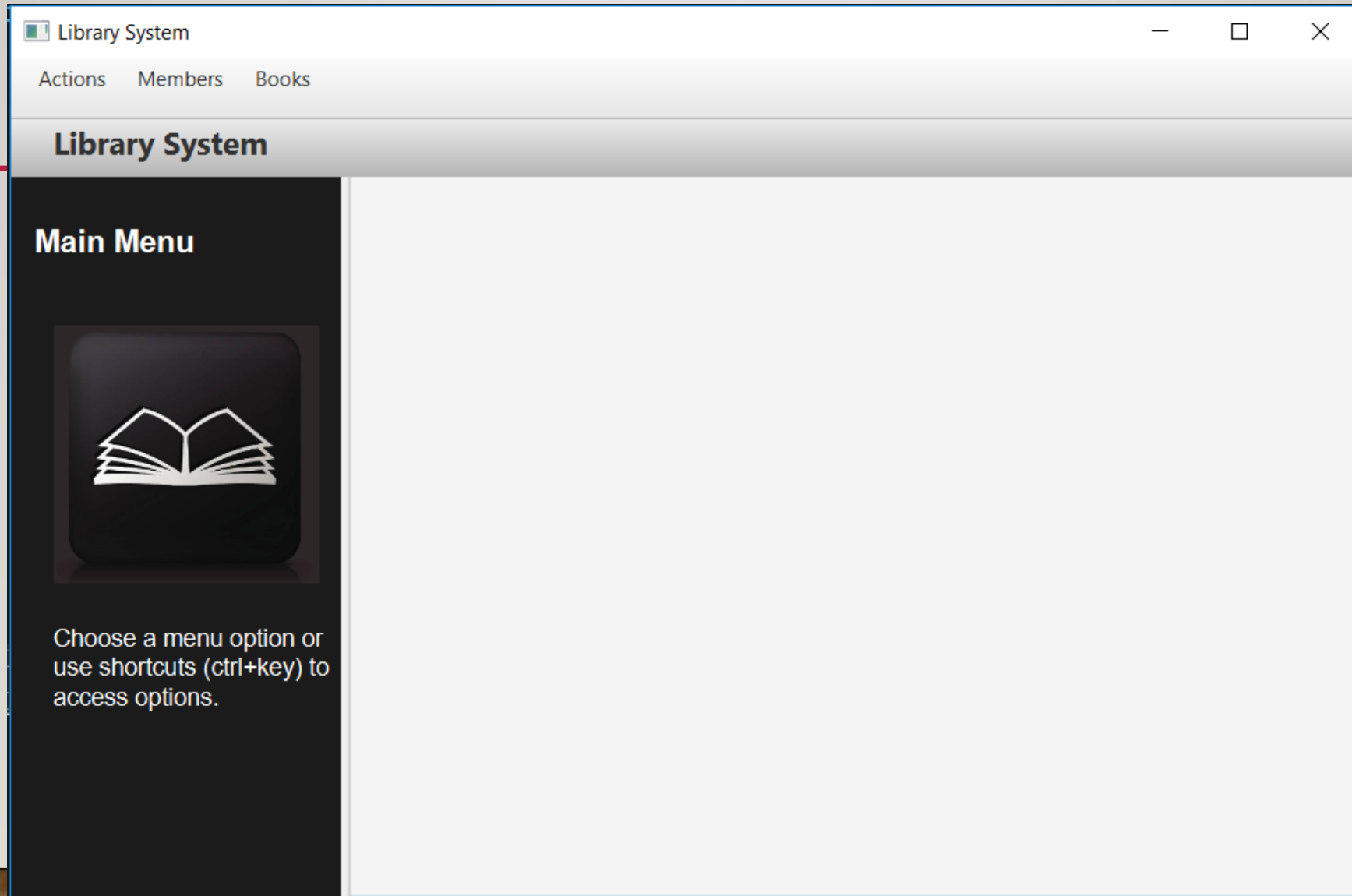
CARLOS ALBERTO HERNANDEZ OSPINA-986636



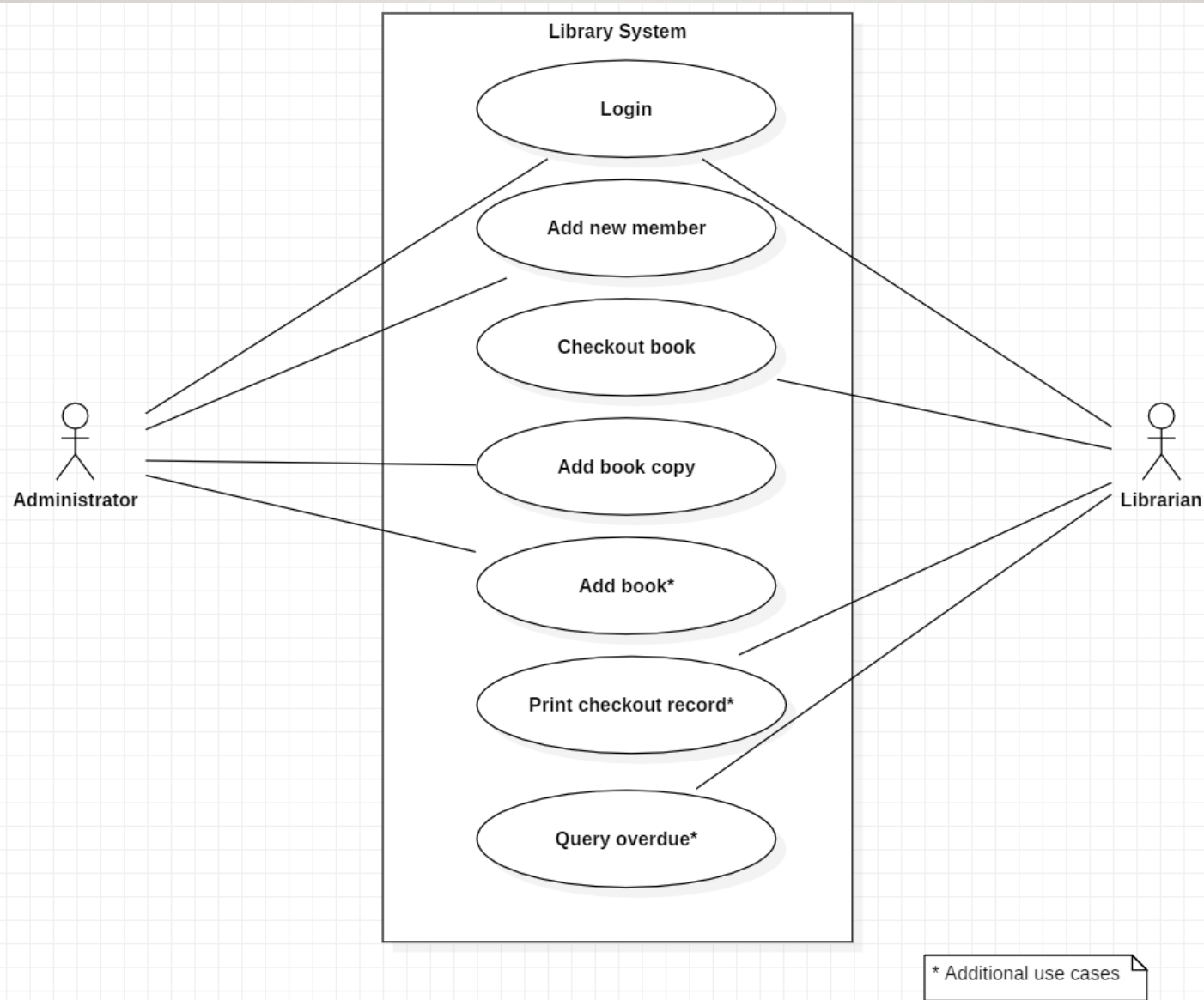
OUTLINE

- Use case diagram
 - Class diagram
 - Technologies used
 - Application demo
- Use cases implemented:
 - Login
 - Add new member
 - Check out book
 - Add book copy
 - Add book
 - Print checkout record
 - Query overdue books

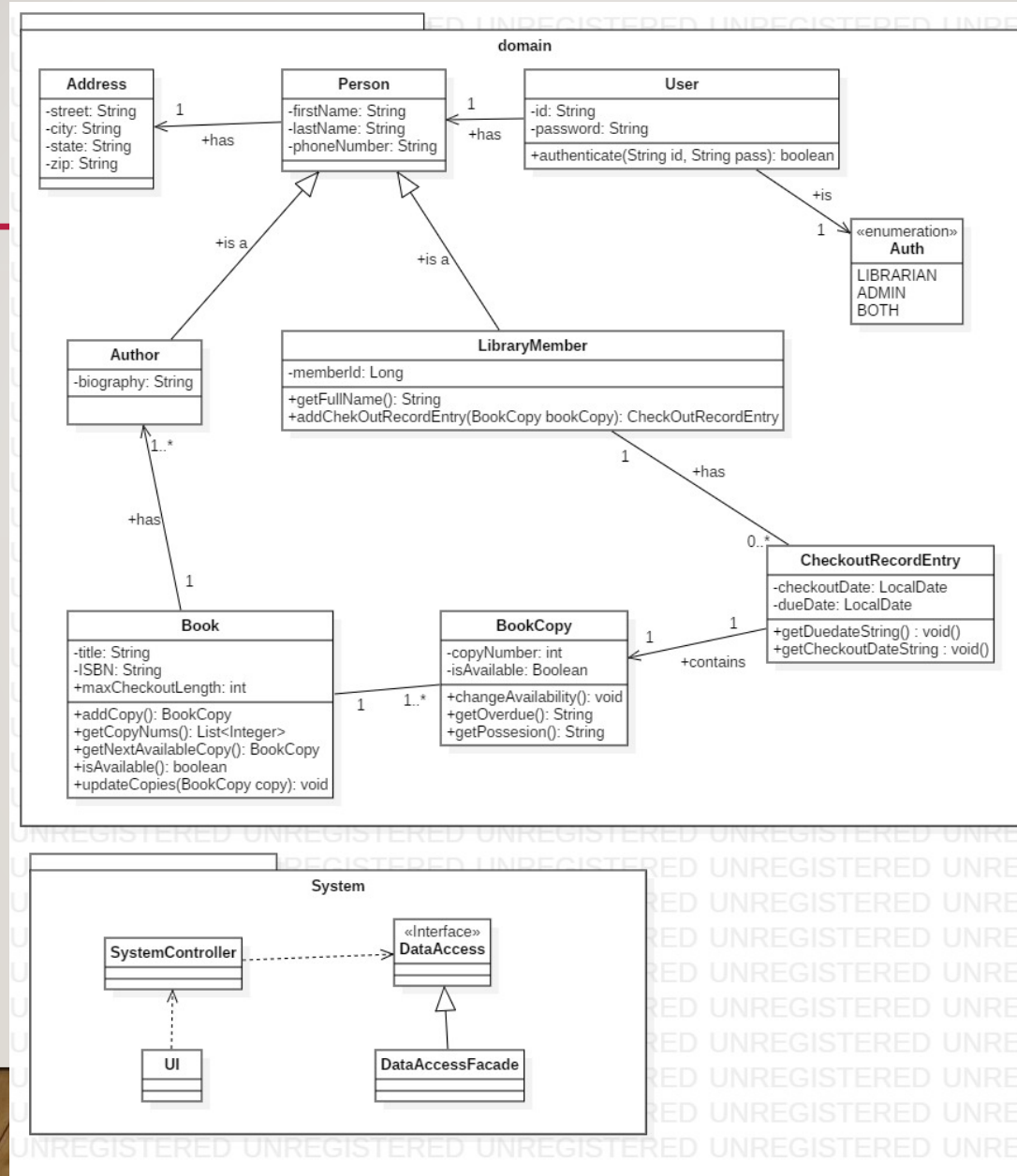
LIBRARY SYSTEM



USE CASES



CLASS DIAGRAM



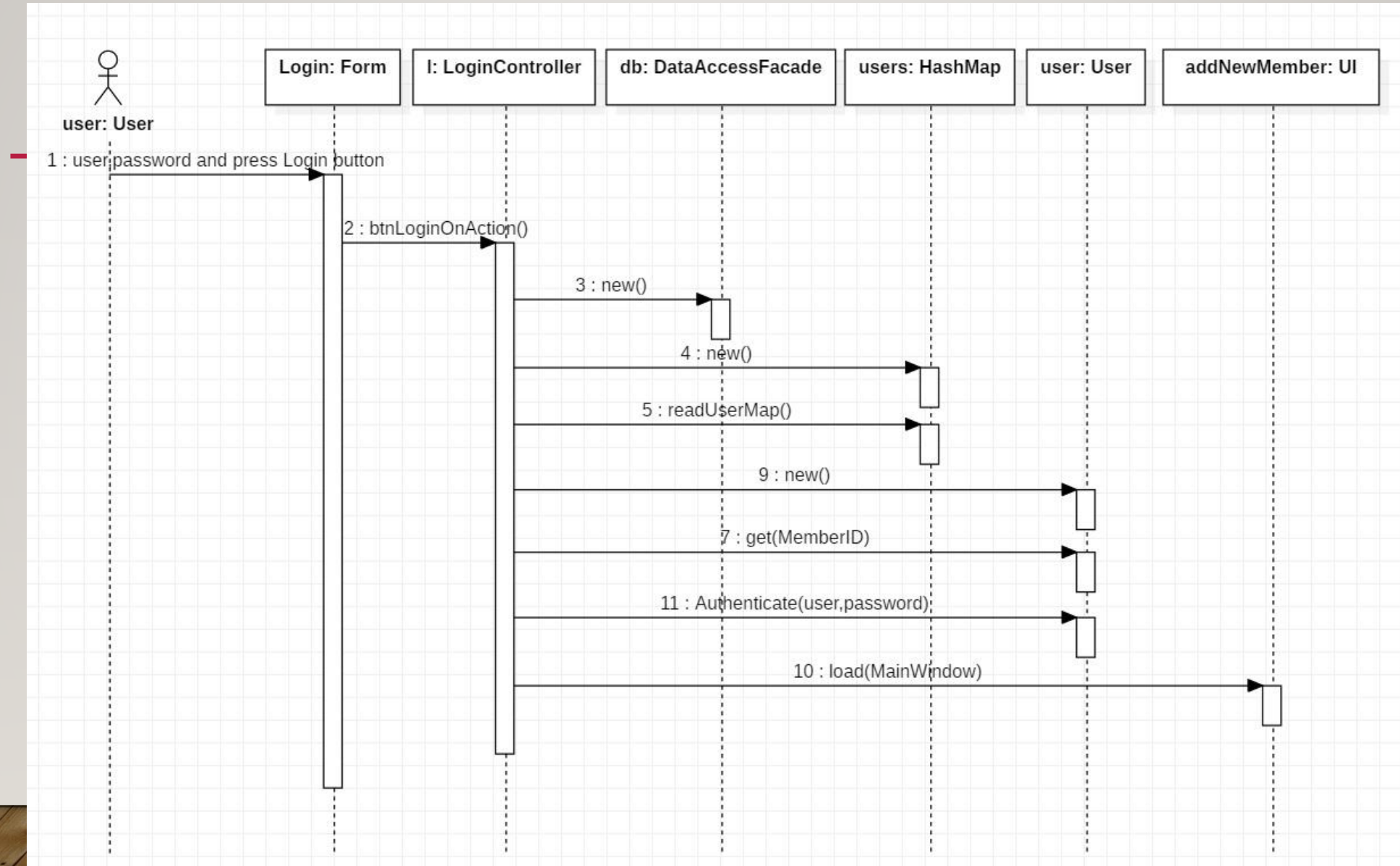
USE CASE I: LOGIN



The screenshot shows a web application window titled "Welcome Library System". The main heading is "Library System Login". On the left, there is an image of an open book. On the right, there are two input fields: "User:" and "Password:". Below these fields is a "Login" button. The window has standard minimize, maximize, and close buttons in the top right corner.

- Validate user and password against persistence.
- Configure access level: Administrator, Librarian or Both

USE CASE I: LOGIN




USE CASE 2:ADD MEMBER

Library System

ActionsMembersBooks

Library System

New Member



Use add a Library Member. Enter Member information.

Member ID:

First name:

Last name:

Telephone number:

Street:

State:

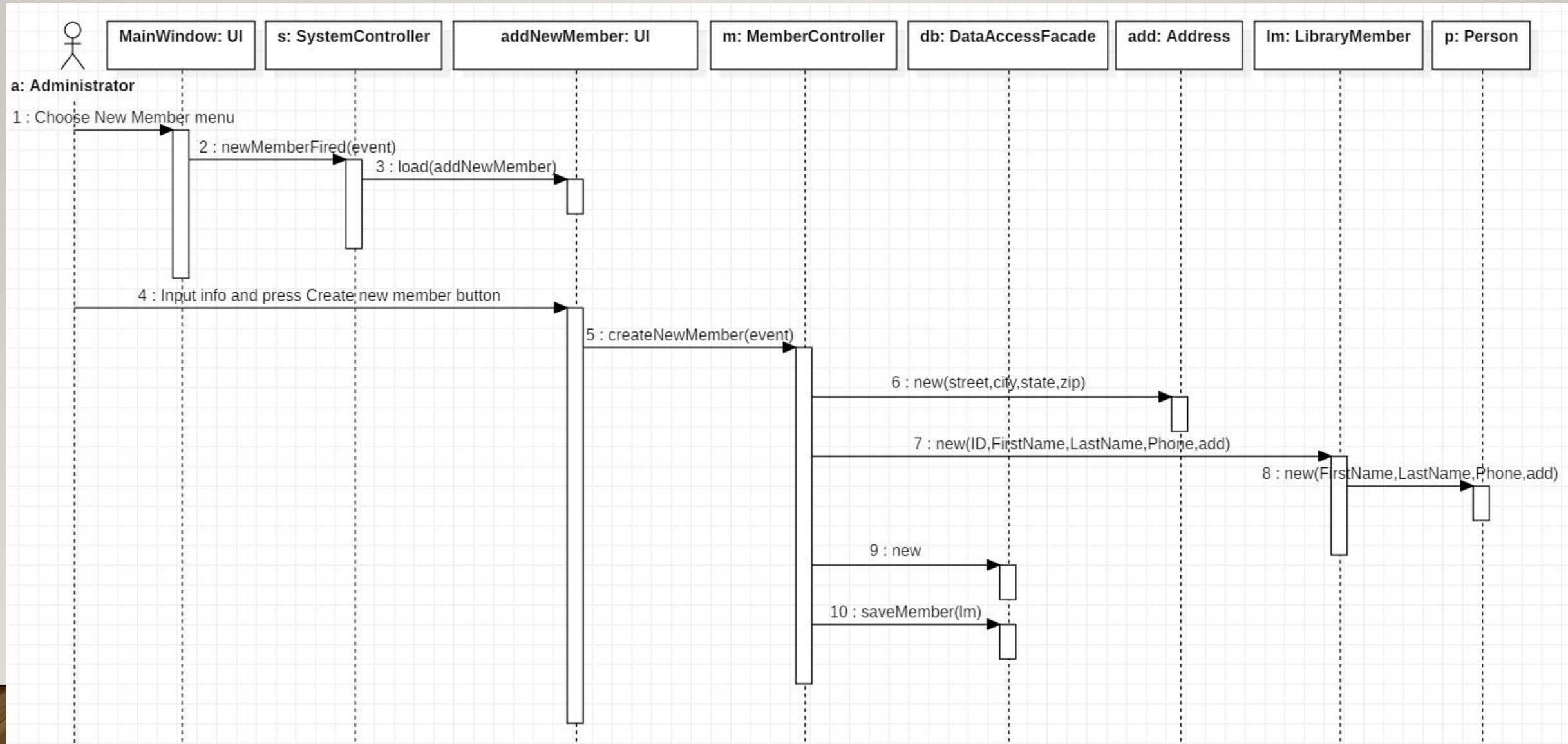
City:

Zip:

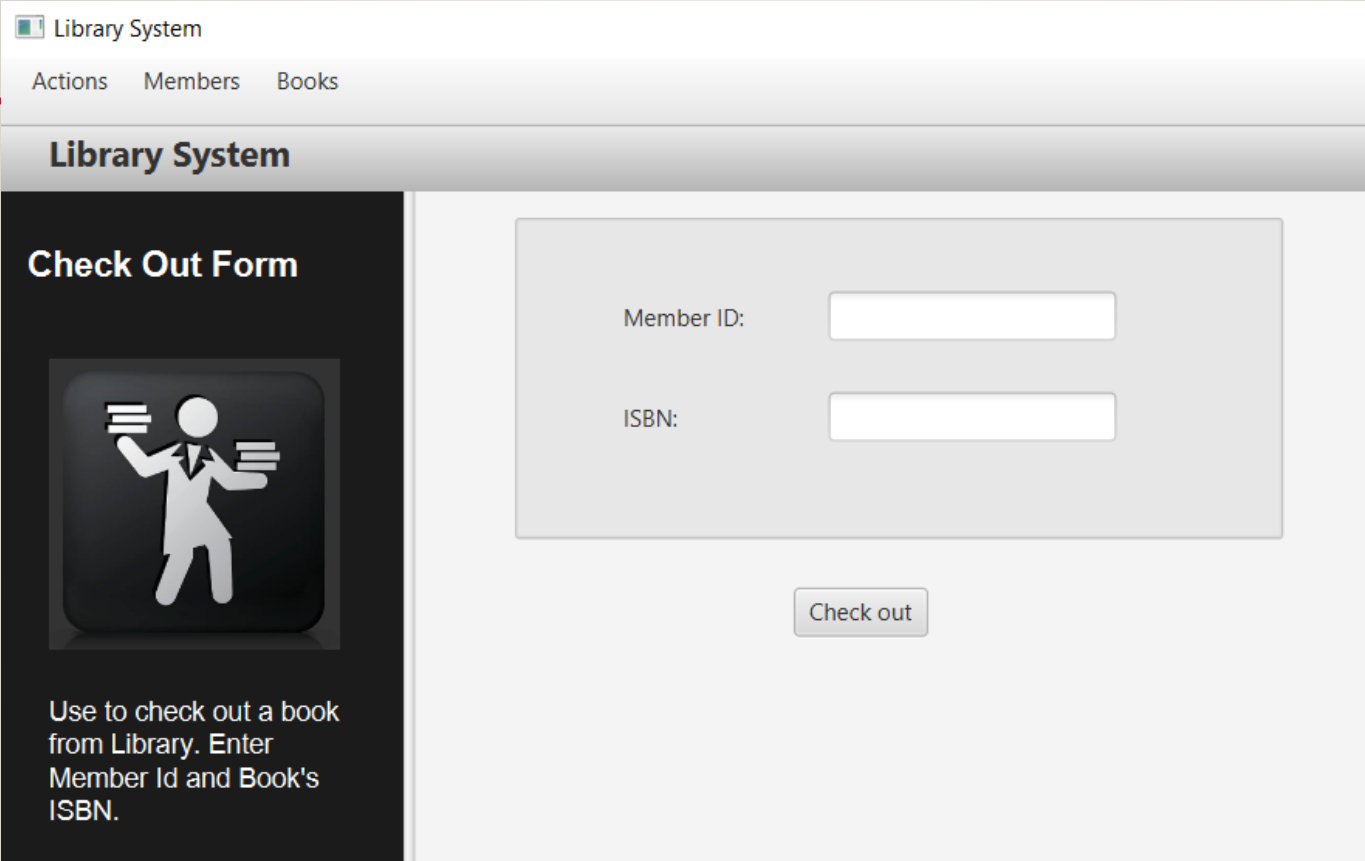
Create new member

- Once data is validated, is saved in the persistence.

USE CASE 2: ADD MEMBER



USE CASE 3: CHECK OUT A BOOK



The screenshot displays a web application titled "Library System". At the top, there are navigation tabs for "Actions", "Members", and "Books". Below the navigation bar, the main heading "Library System" is visible. The left sidebar contains a "Check Out Form" section with a white icon of a person holding books on a dark background. Below the icon, a text box explains: "Use to check out a book from Library. Enter Member Id and Book's ISBN." The main content area features a light gray form with two input fields: "Member ID:" and "ISBN:". A "Check out" button is positioned below these fields.

Library System

Actions Members Books

Library System

Check Out Form

Use to check out a book from Library. Enter Member Id and Book's ISBN.

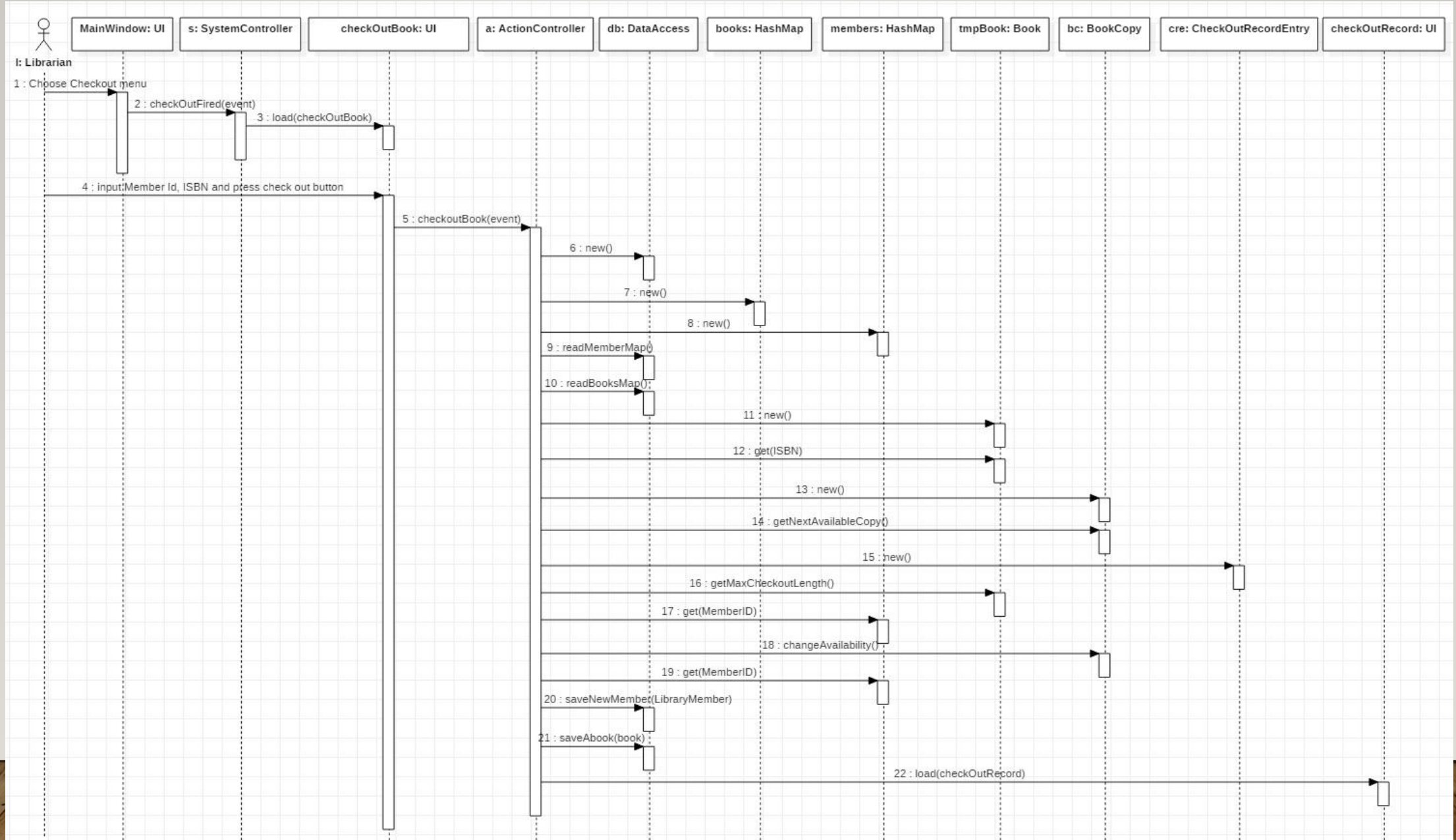
Member ID:

ISBN:

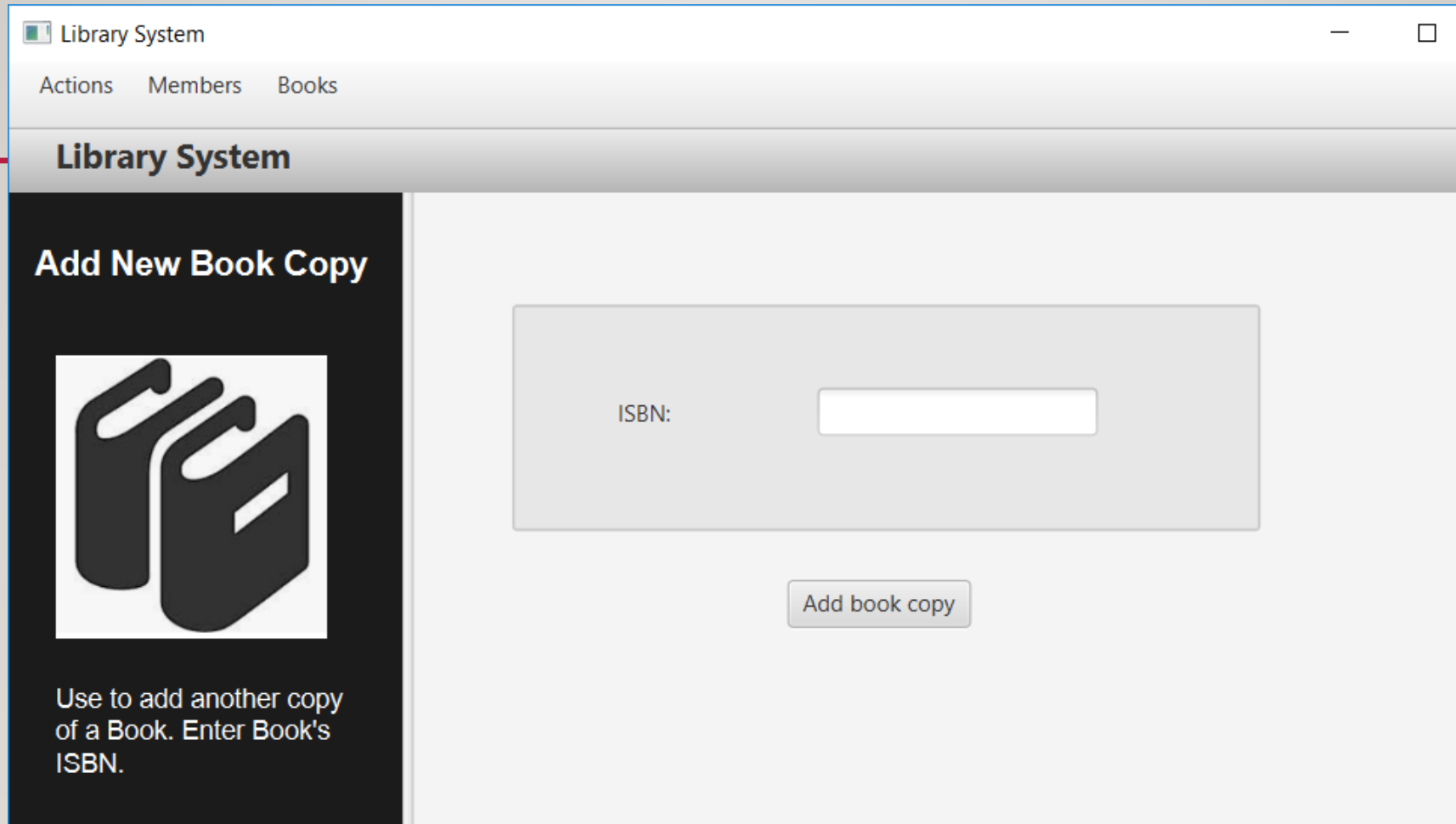
Check out

- Marks copy as unavailable and saves checkout record entry in persistence.

USE CASE 3: CHECK OUT A BOOK



USE CASE 4: ADD BOOK COPY




The screenshot shows a web application window titled "Library System". At the top, there are navigation links for "Actions", "Members", and "Books". Below the navigation bar is a header section with the title "Library System". The main content area is divided into two parts. On the left, there is a dark sidebar with the heading "Add New Book Copy" and an icon of two books. Below the icon, it says "Use to add another copy of a Book. Enter Book's ISBN." On the right, there is a light gray form area. It contains a label "ISBN:" followed by a text input field. Below the input field is a button labeled "Add book copy".

Library System

Actions Members Books

Library System

Add New Book Copy



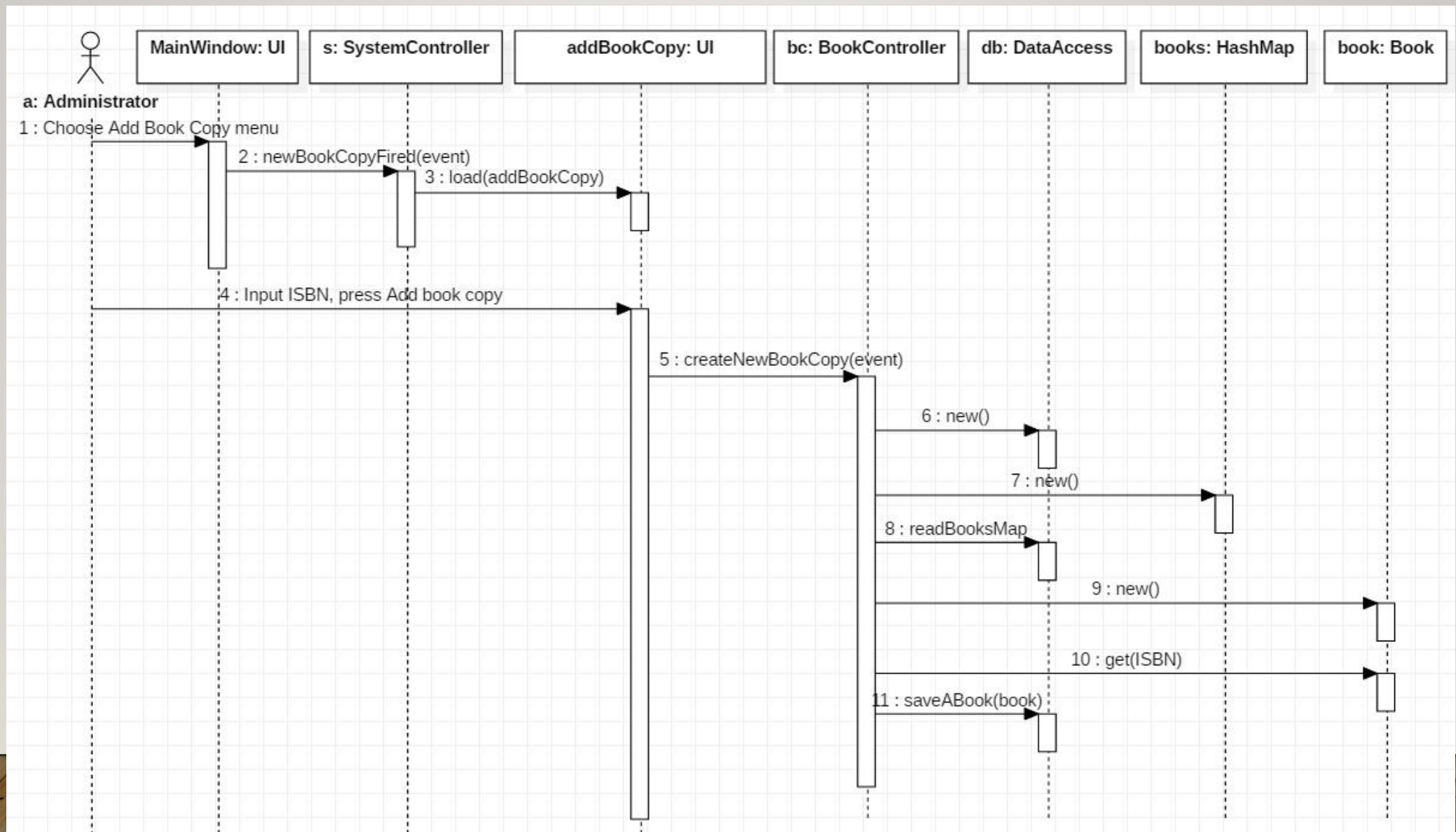
Use to add another copy of a Book. Enter Book's ISBN.

ISBN:

Add book copy

- Adds copy of existing books to the library.

USE CASE 4: ADD BOOK COPY




USE CASE 5:ADD BOOK

Library System

ActionsMembersBooks

Library System

Add New Book



Use to add a new Book.
Enter Book information.

ISBN:

Title:

Authors:

First Name	Last Name	Phone	Street	City	State	Zip_Code	Biography	+

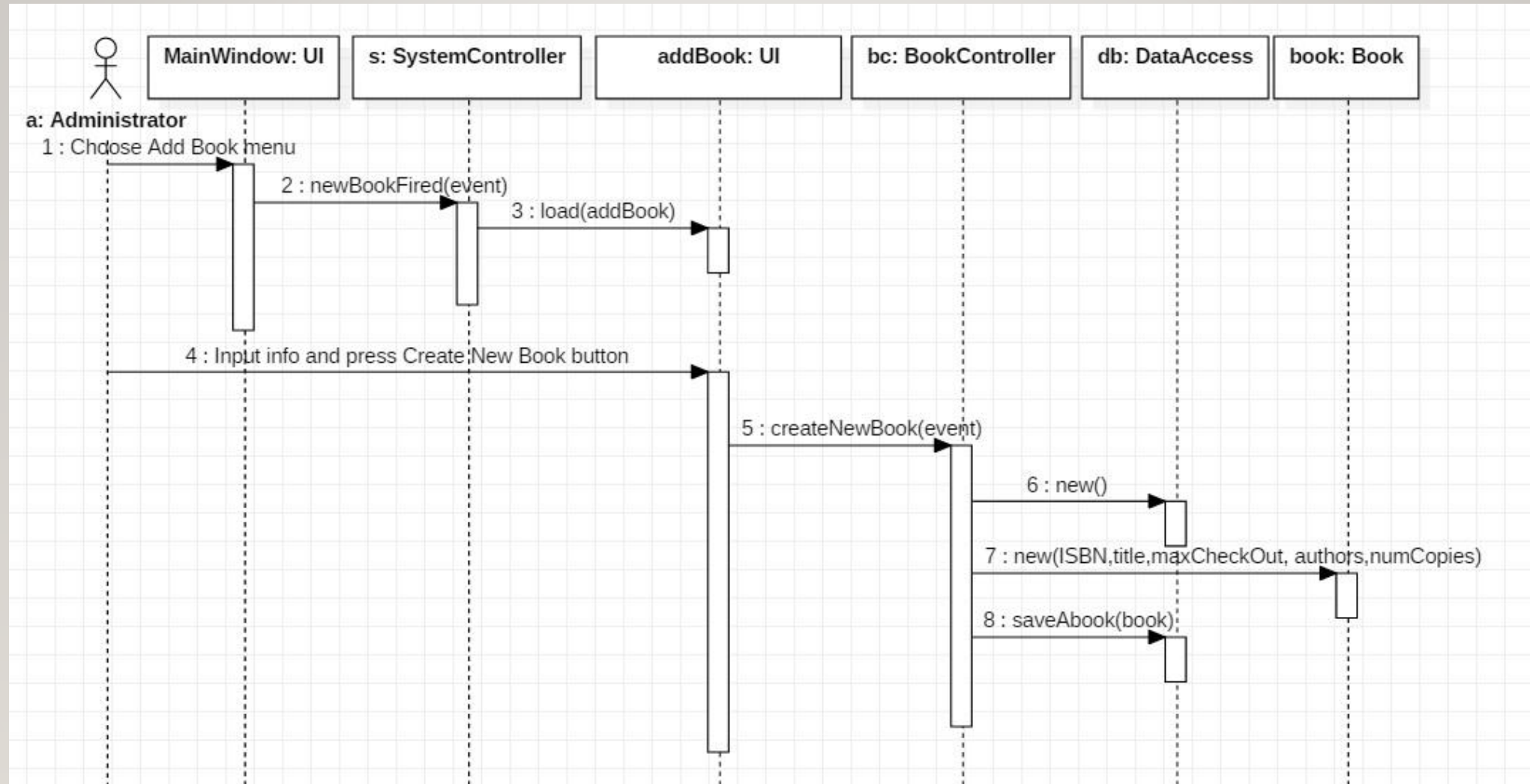
Add Author

Max. checkout:7daysNumber of copies:

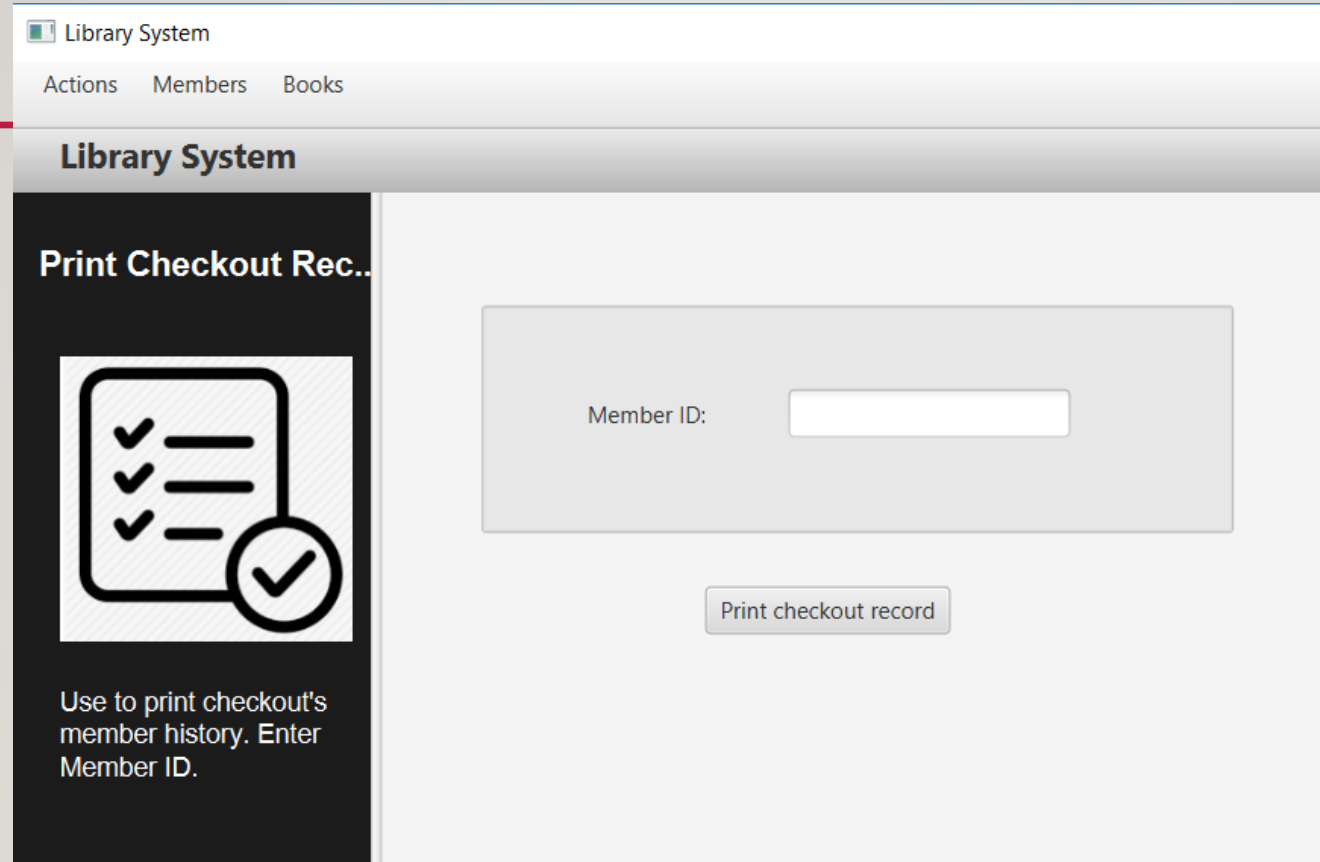
Create new book

- Add book to the library.

USE CASE 5: ADD BOOK



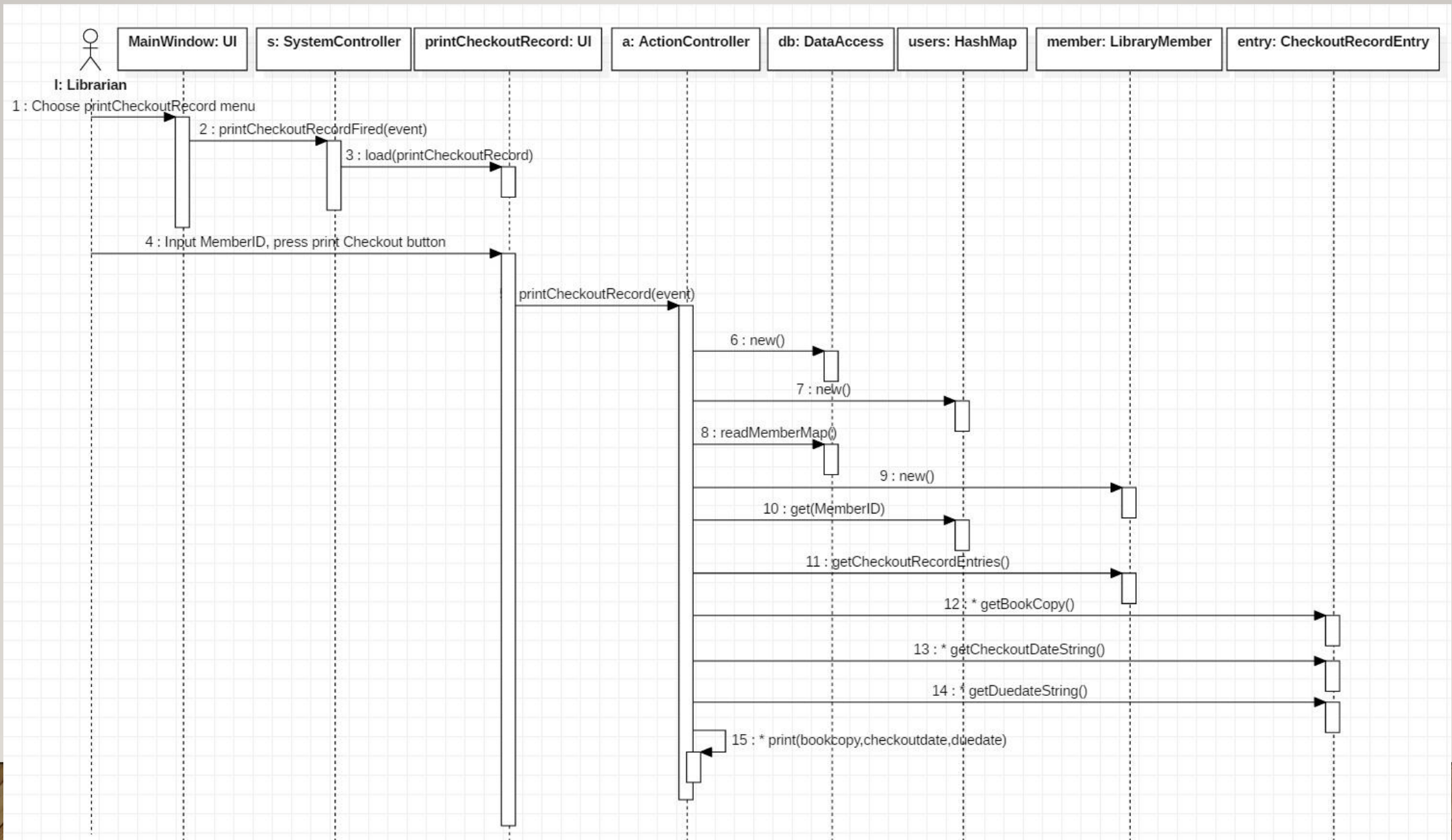
USE CASE 6: PRINT CHECKOUT RECORD



The screenshot shows a web application titled "Library System" with a navigation bar containing "Actions", "Members", and "Books". The main content area is divided into two sections. On the left, a dark sidebar contains the title "Print Checkout Rec.." and an icon of a document with a checklist and a circular checkmark. Below the icon, it says "Use to print checkout's member history. Enter Member ID." On the right, a light gray box contains the label "Member ID:" followed by a text input field. Below this box is a button labeled "Print checkout record".

- Prints checkout history to console.

USE CASE 6: PRINT CHECKOUT RECORD




USE CASE 7: QUERY OVERDUE BOOKS

Library System

ActionsMembersBooks

Library System

Query Overdue



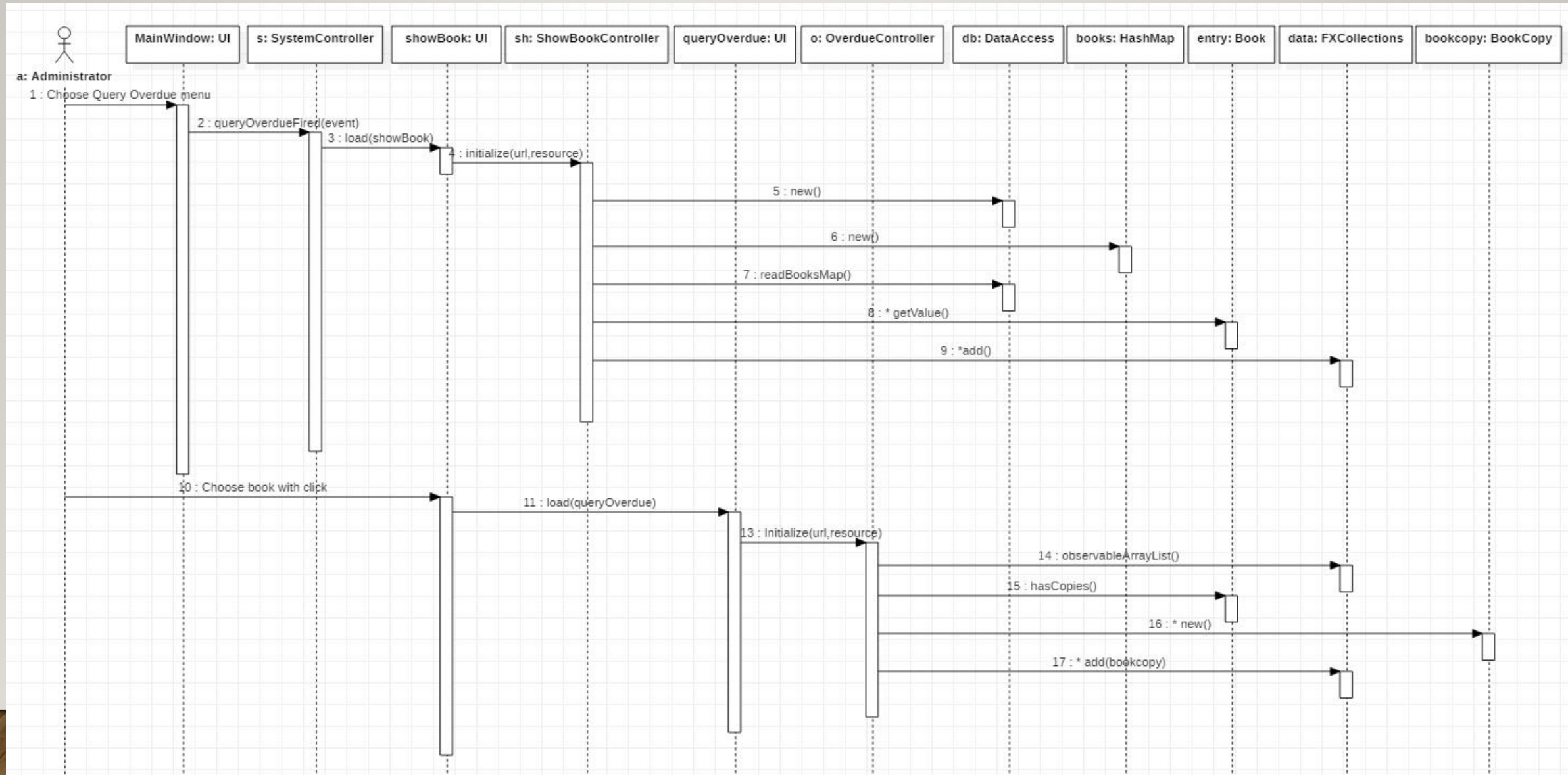
Use to check for books already had to be returned to library. Enter Book's ISBN.

ISBN	Book Name	Max Checkout Date
48-56882	Jimmy's First Day of School	7
28-12331	Antartica	7
23-11451	The Big Fish	21
99-22223	Thinking Java	21

Return

- Helps to find out overdue books and who did checkout.

USE CASE 7: QUERY OVERDUE BOOKS



TECHNOLOGIES USED

- Java and Java FX
- Git
- Persistence in serializable files
- StarUML

THANKS



A word cloud featuring the phrase "Thank You" in numerous languages. The words are arranged in a roughly rectangular shape, with "THANK YOU" being the largest and most prominent. Other visible words include "GRACIAS", "ARIGATO", "SHUKURIA", "JUSPAXAR", "DANKSCHEEN", "TASHAKKUR ATU", "SUKSAMA", "EKHMET", "YAQHANYELAY", "TINGKI", "BIYAN", "SHUKRIA", "GOZAIMASHITA", "EFCHARISTO", "KOMAPSUMNIDA", "MAAKE", "LA", "GRAZIE", "MEHRBANI", "PALDIES", "BOLZİN", and "MERCİ". The words are in various orientations, some horizontal and some vertical.