LIBRARY MANAGEMENT SYSTEM

GROUP 3

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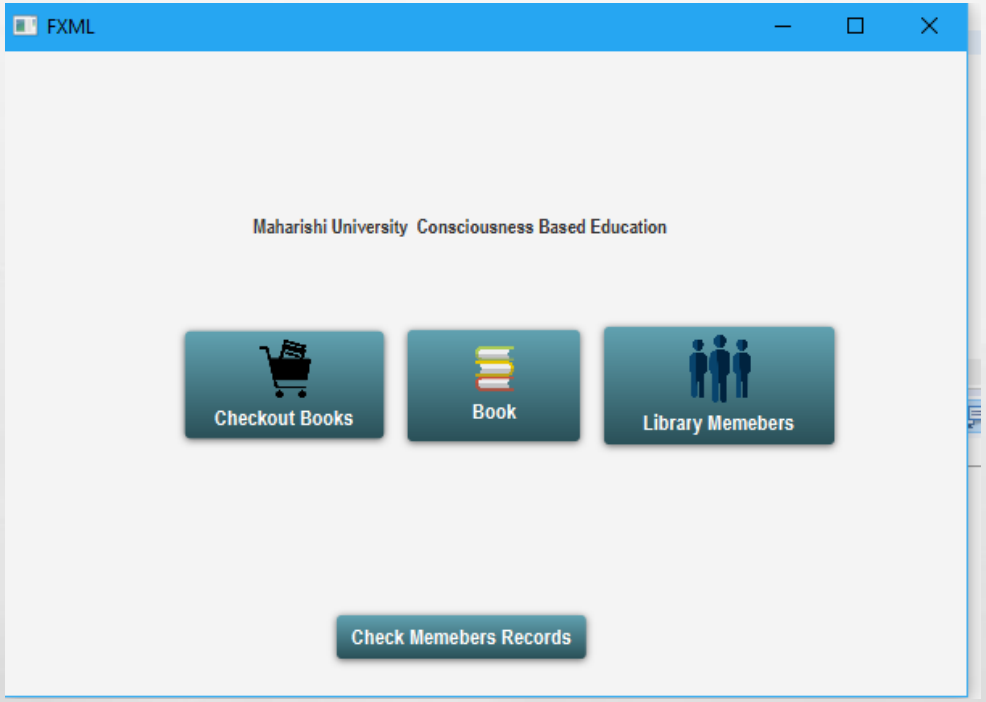
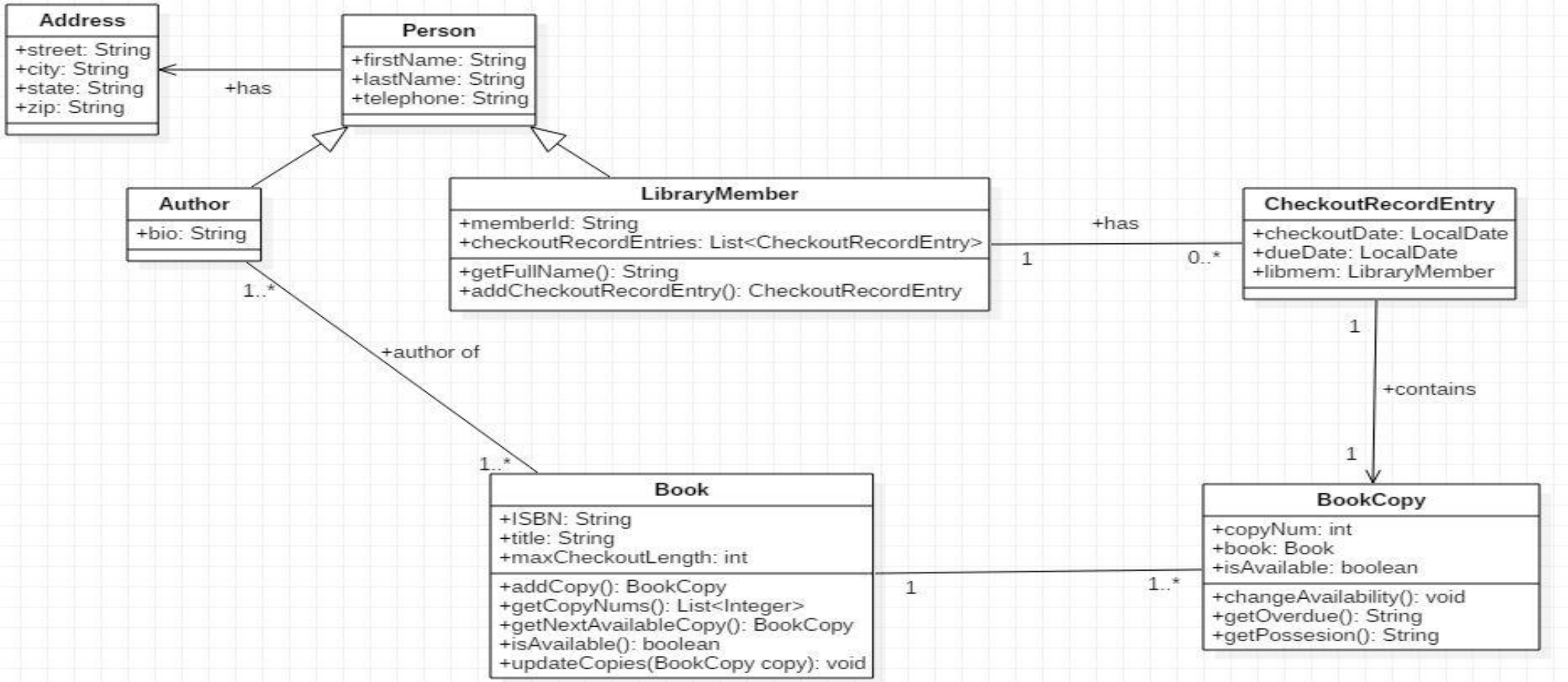
OUTLINE

- DEMO APP
- USE CASE DIAGRAM
- CLASS DIAGRAM
- USE CASES & SEQUENCE DIAGRAMS
  - LOGIN
  - ADD/EDIT LIBRARY MEMBER
  - CHECKOUT A BOOK
  - ADD A COPY TO BOOK
  - VIEW USER CHECKOUT RECORD
  - CHECK COPY'S OVERDUE AND POSSESION

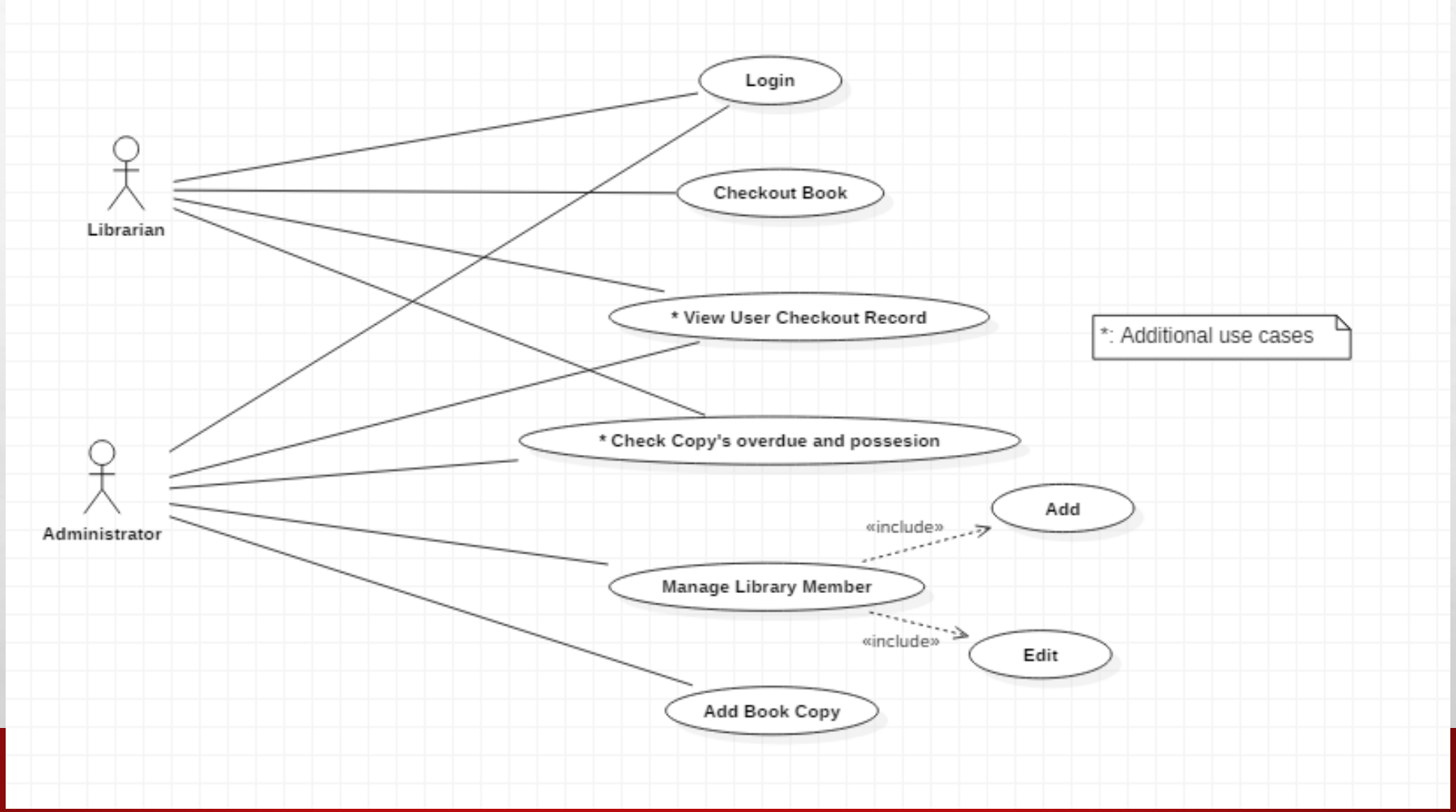
LIBRARY MANAGEMENT SYSTEM



CLASS DIAGRAM



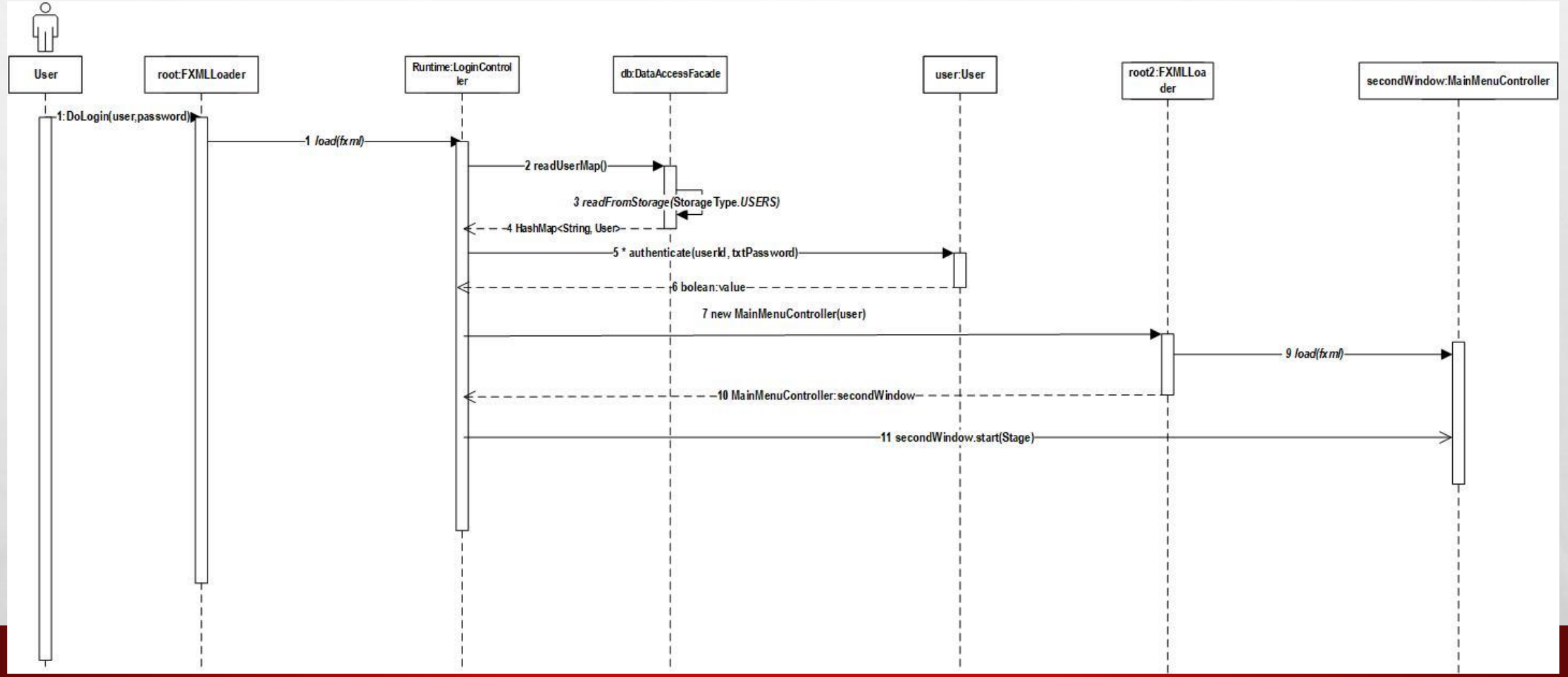
USE CASES


Login
Librarian
Checkout Book
* View User Checkout Record
*: Additional use cases
* Check Copy's overdue and possesion
Administrator
Add
«include»
Manage Library Member
«include»
Edit
Add Book Copy

USE CASE 1 : LOGIN

- Brief Summary
  - User input ID and Password on login screen
  - System validate the credentials, if ID and Password is valid, return authorization level and display main menu
  - Authorization Level: Librarian, Admin, Both

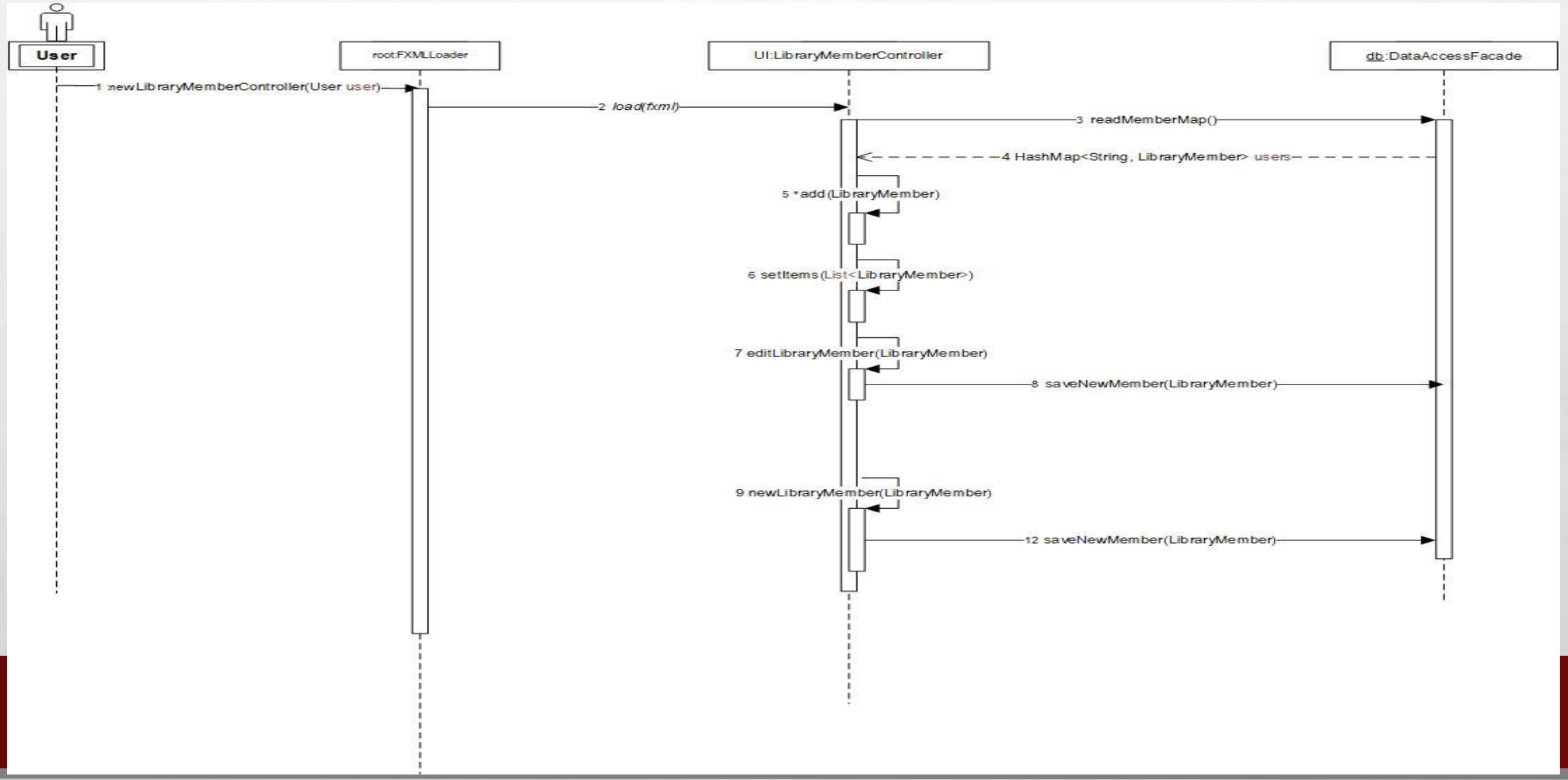
USE CASE 1 : LOGIN



USE CASE 2 : ADD A MEMBER

- **Brief Summary:**
  - System display a form of fields, including member id, first & last name, address, and telephone for user to input
  - After the data is enter and submitted, a new user is created and saved in the database

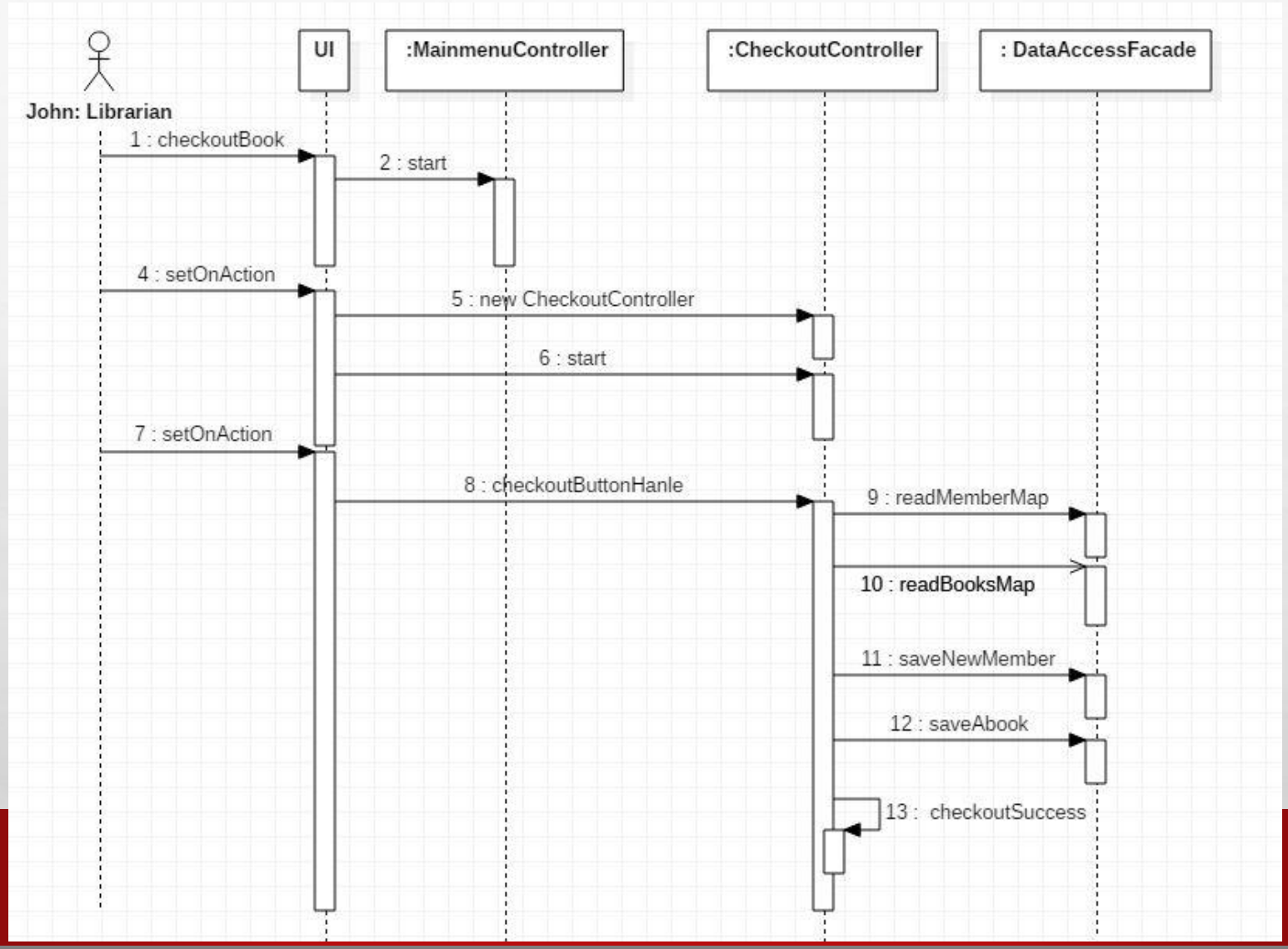
USE CASE 2 : ADD A MEMBER



USE CASE 3 :CHECKOUT A BOOK

- **Brief Summary:**
  - **The Librarian enter member's ID and ISBN into the interface**
  - **The System validate the inputs and create a new checkout record as well as changing the book's copy status and display a success message**

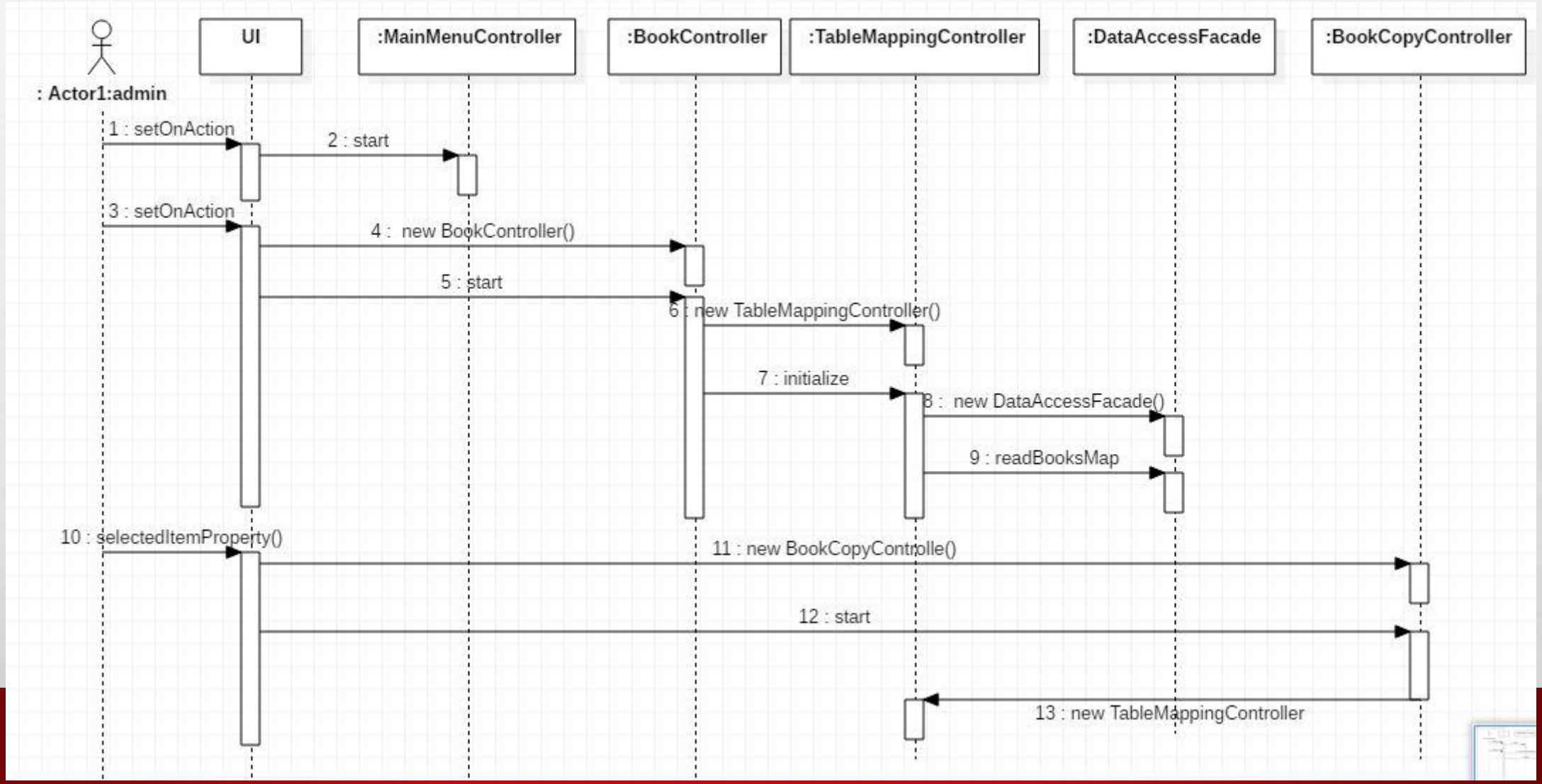
USE CASE 3 :CHECKOUT A BOOK



USE CASE 4 : ADD A COPY OF EXISTING BOOK

- **Brief Summary:**
  - System display a Book list
  - Admin select a Book from the book list, and choose “add copy” to add a new copy of that book to the collection

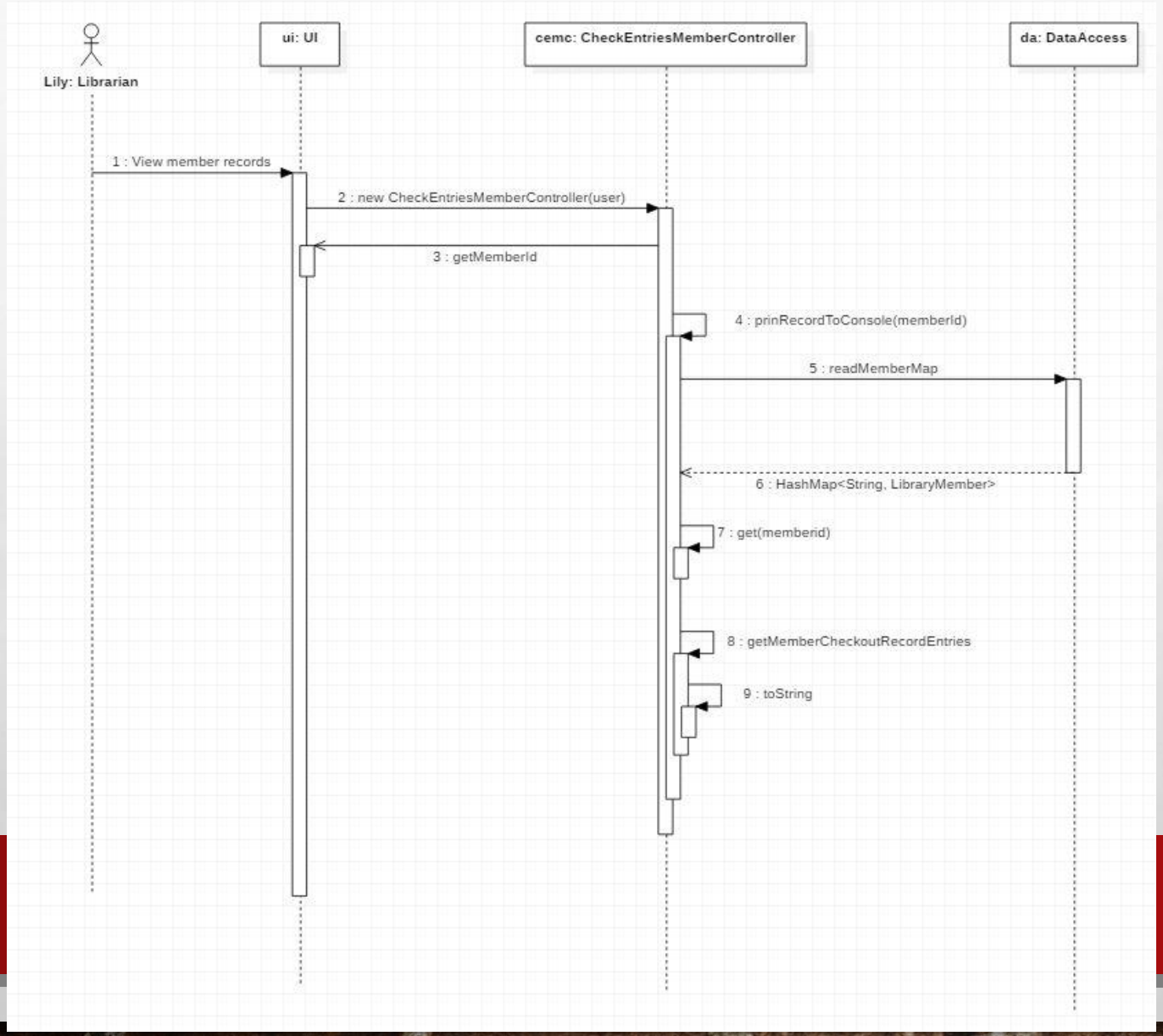
USE CASE 4 : ADD A COPY OF EXISTING BOOK



USE CASE 5 (ADDITIONAL) : VIEW MEMBER CHECKOUT RECORD HISTORY

- **Brief Summary:**
  - The Librarian search for a Member using the member id
  - The System will print out the member's checkout record to the console

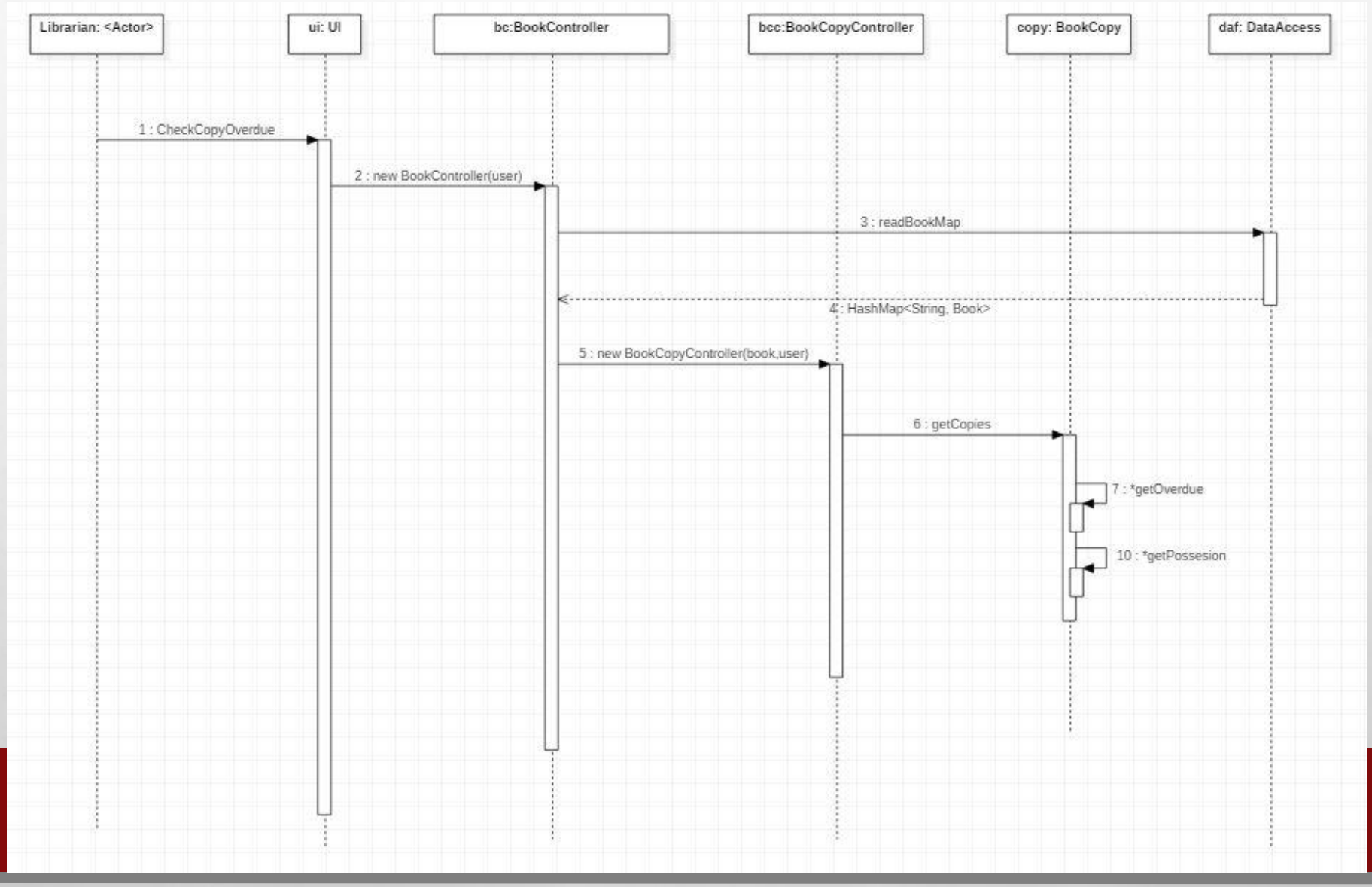
USE CASE 5 (ADDITIONAL) : VIEW MEMBER CHECKOUT RECORD HISTORY



USE CASE 6 (ADDITIONAL) : VIEW A COPY OVER DUE AND POSSESION

- **Brief Summary:**
  - **The user Select a Book From Book List**
  - **The System display the Book's Copies, as well as each copy's availability, overdue status and which library member has it in his/her possession**

USE CASE 6 (ADDITIONAL) : VIEW A COPY OVER DUE AND POSSESION



THANK YOU!