Hacettepe University
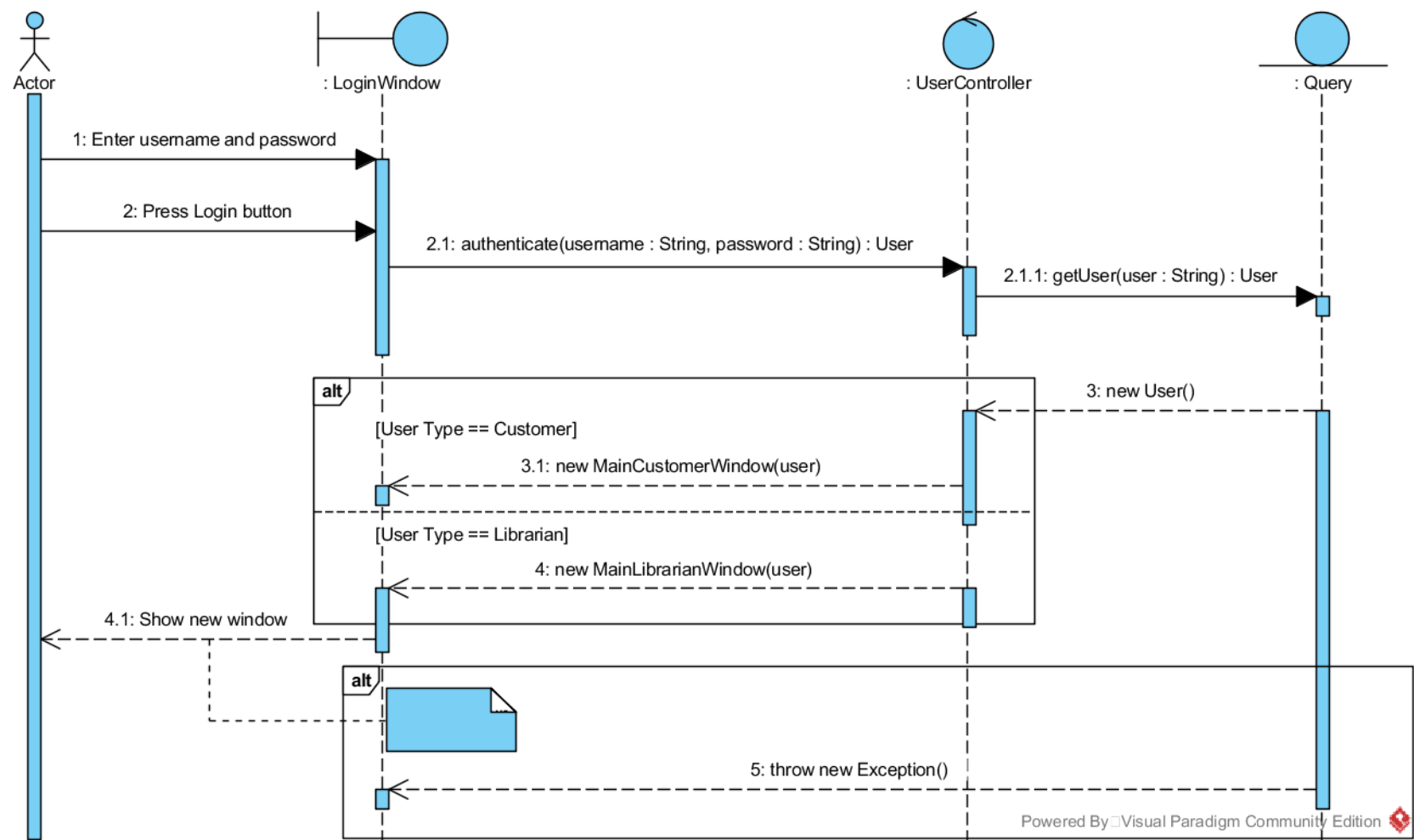## Department of Computer Engineering
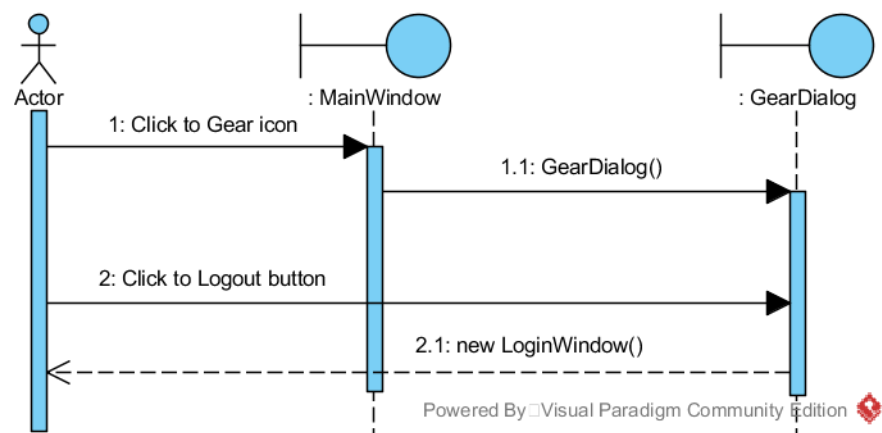## BBM478 - Software Engineering Laboratory

Sequence Diagrams Document

Group One

Ahmed Şamil BÜLBÜL (21426749, Software Developer)
Halil İbrahim ŞENER (21328447, Tester)
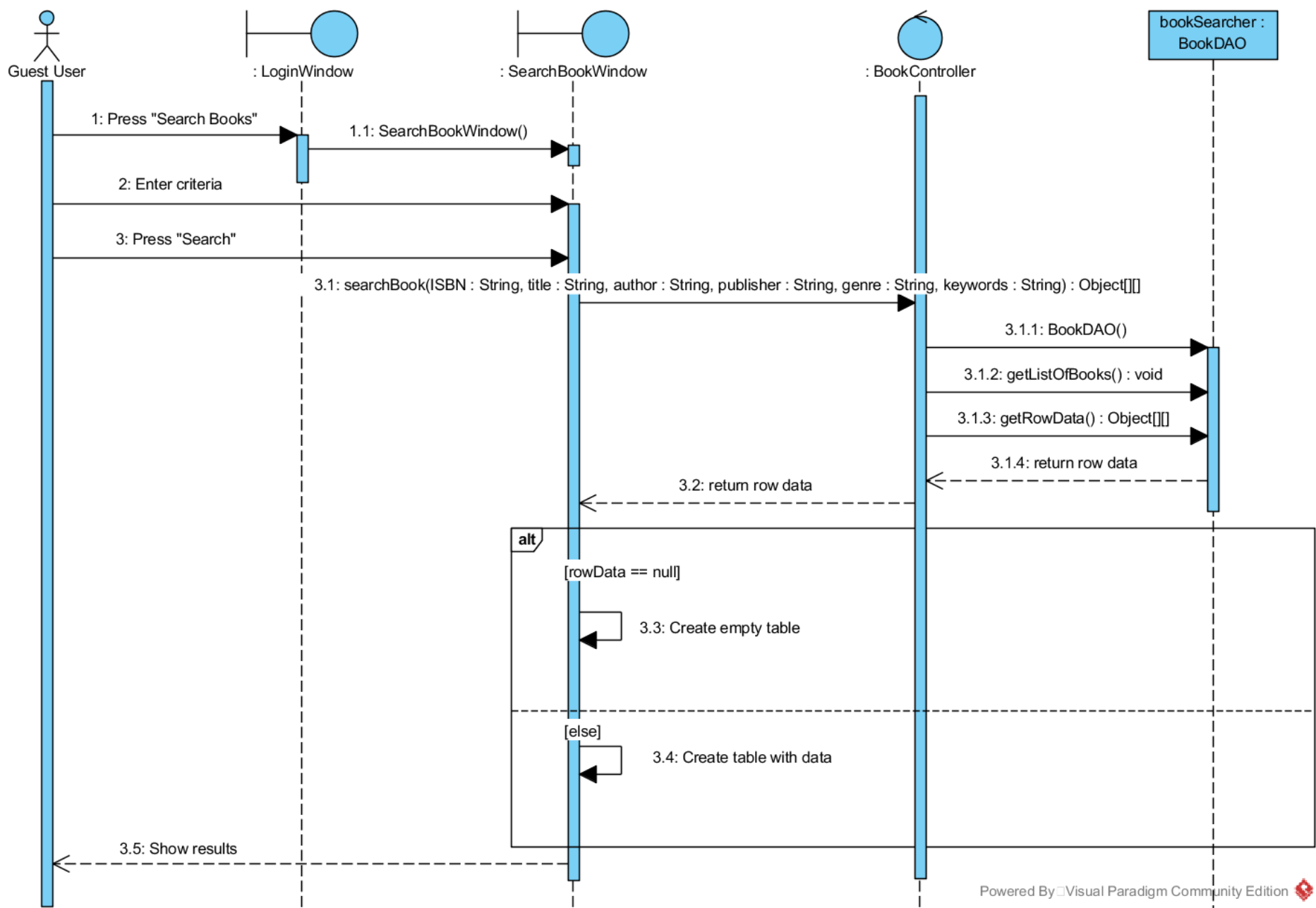Naciye GÜZEL (21580841, Project Manager)
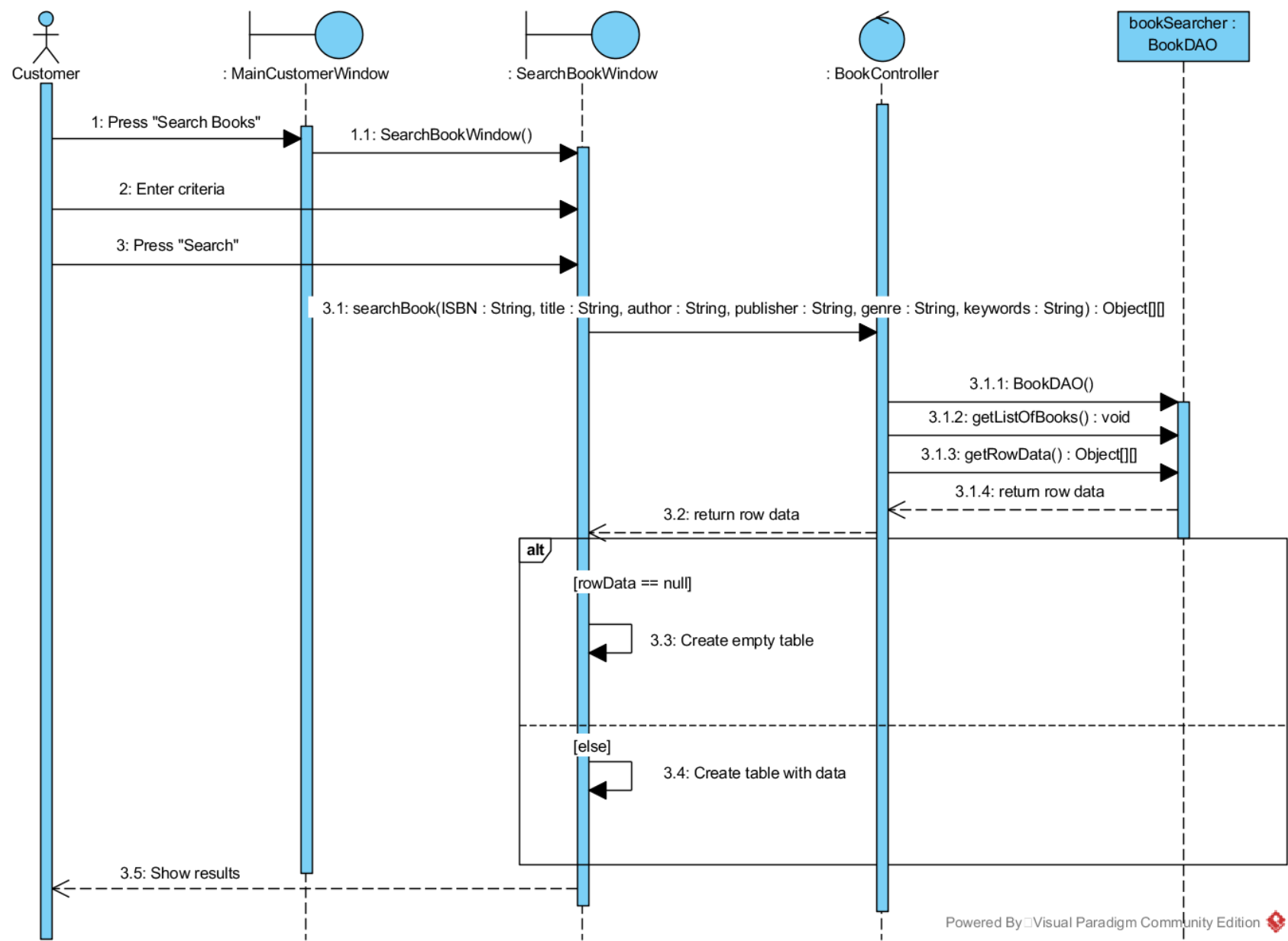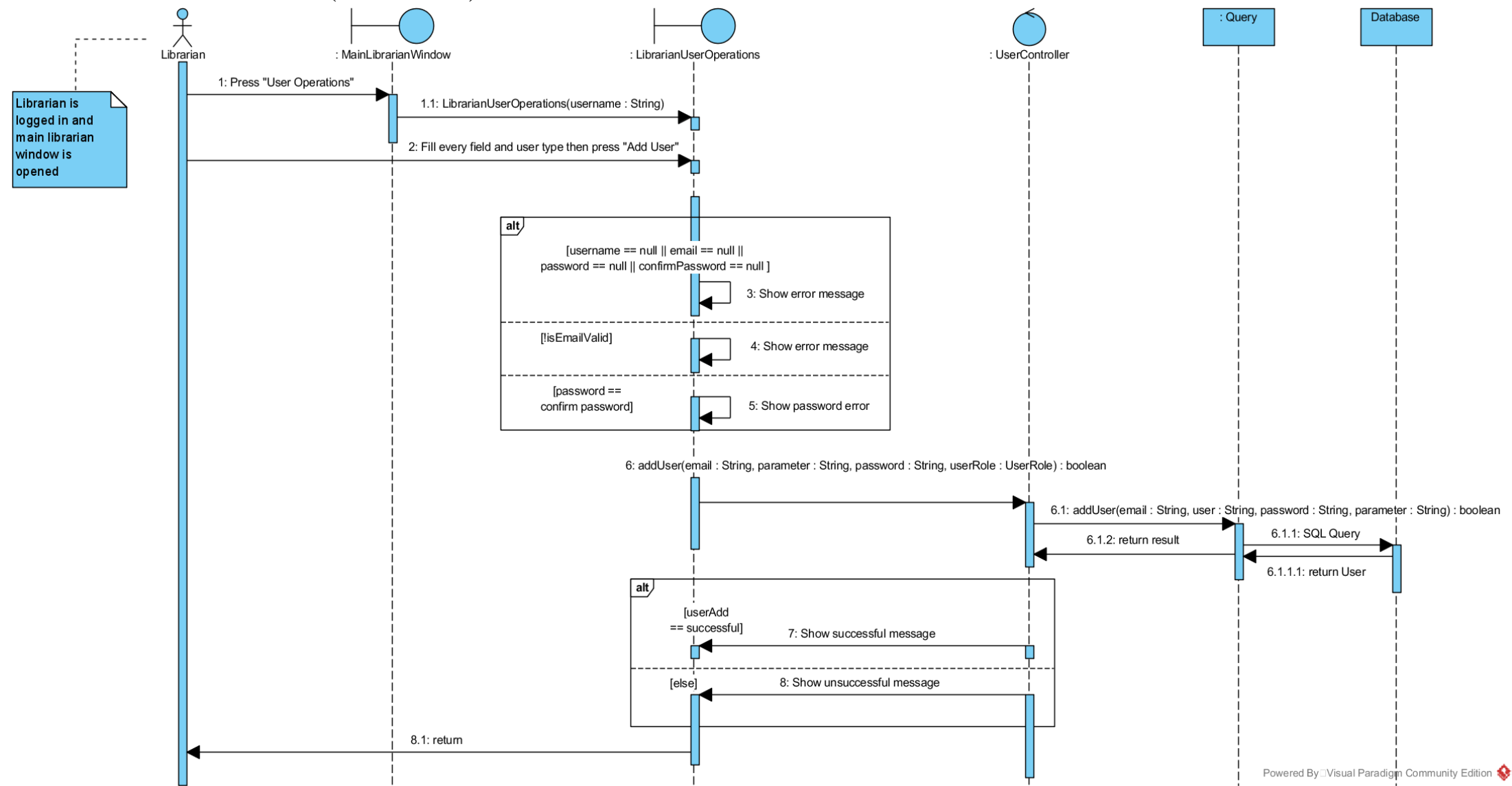
1. Login (Use Case 1)

2. Logout (Use Case 2)

3. Search for Books – Guest User (Use Case 3.1)

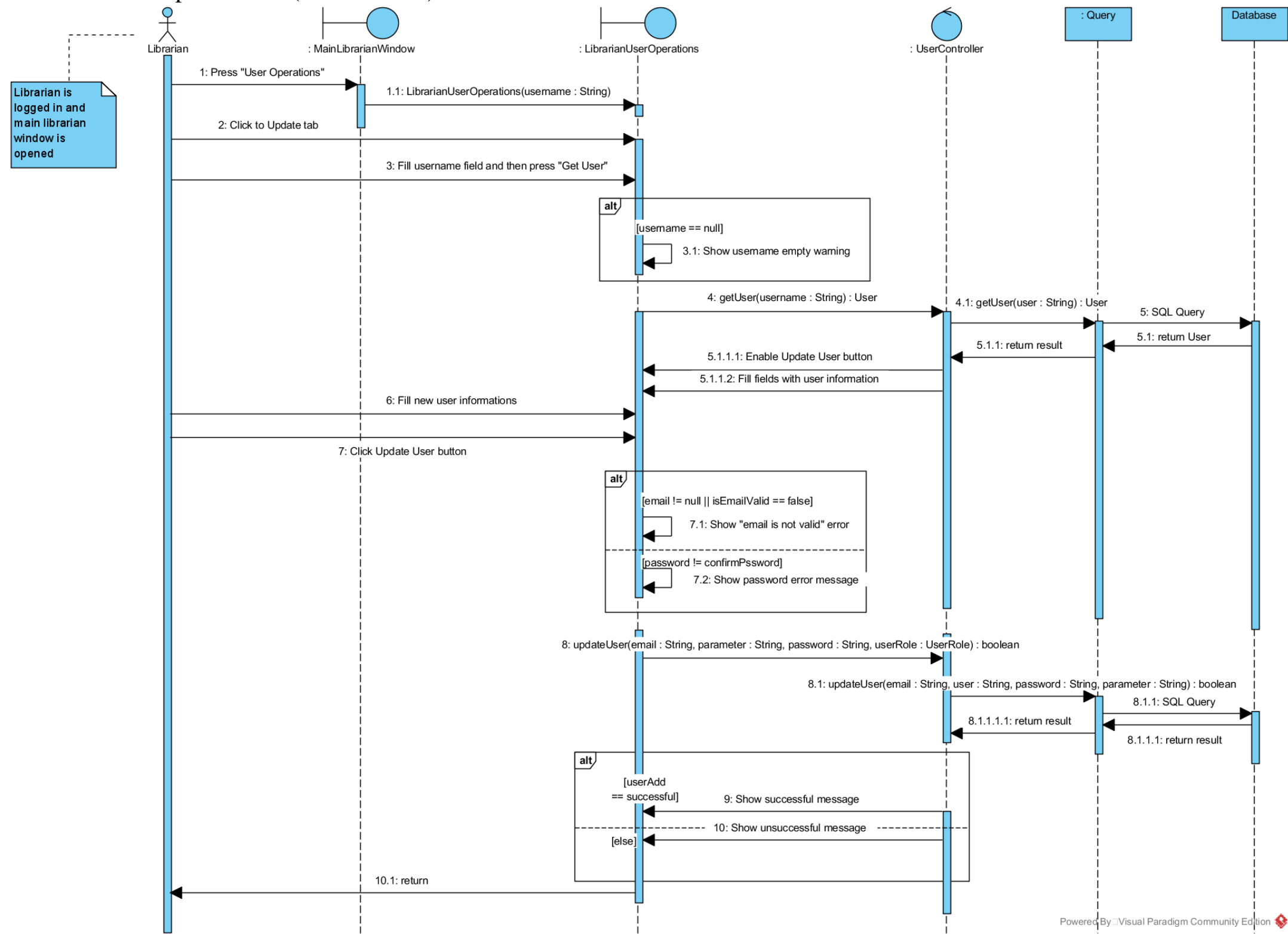Powered By □Visual Paradigm Community Edition

4. Search for Books – Logged in User (Use Case 3.2)

5. Create User (Use Case 9)

6. Update User (Use Case 10)

Librarian is logged in and main librarian window is opened

1: Press "User Operations"

1.1: LibrarianUserOperations(username : String)

2: Click to Update tab

3: Fill username field and then press "Get User"

alt
[username == null]
3.1: Show username empty warning

4: getUser(username : String) : User

4.1: getUser(user : String) : User

5: SQL Query

5.1: return User

5.1.1: return result

5.1.1.1: Enable Update User button

5.1.1.2: Fill fields with user information

6: Fill new user informations

7: Click Update User button

alt
[email != null || isEmailValid == false]
7.1: Show "email is not valid" error

[password != confirmPssword]
7.2: Show password error message

8: updateUser(email : String, parameter : String, password : String, userRole : UserRole) : boolean

8.1: updateUser(email : String, user : String, password : String, parameter : String) : boolean

8.1.1: SQL Query

8.1.1.1: return result

8.1.1.1.1: return result

alt
[userAdd == successful]
9: Show successful message

10: Show unsuccessful message
[else]

10.1: return

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7. Delete User (Use Case 11)

8. View User (Use Case 12)

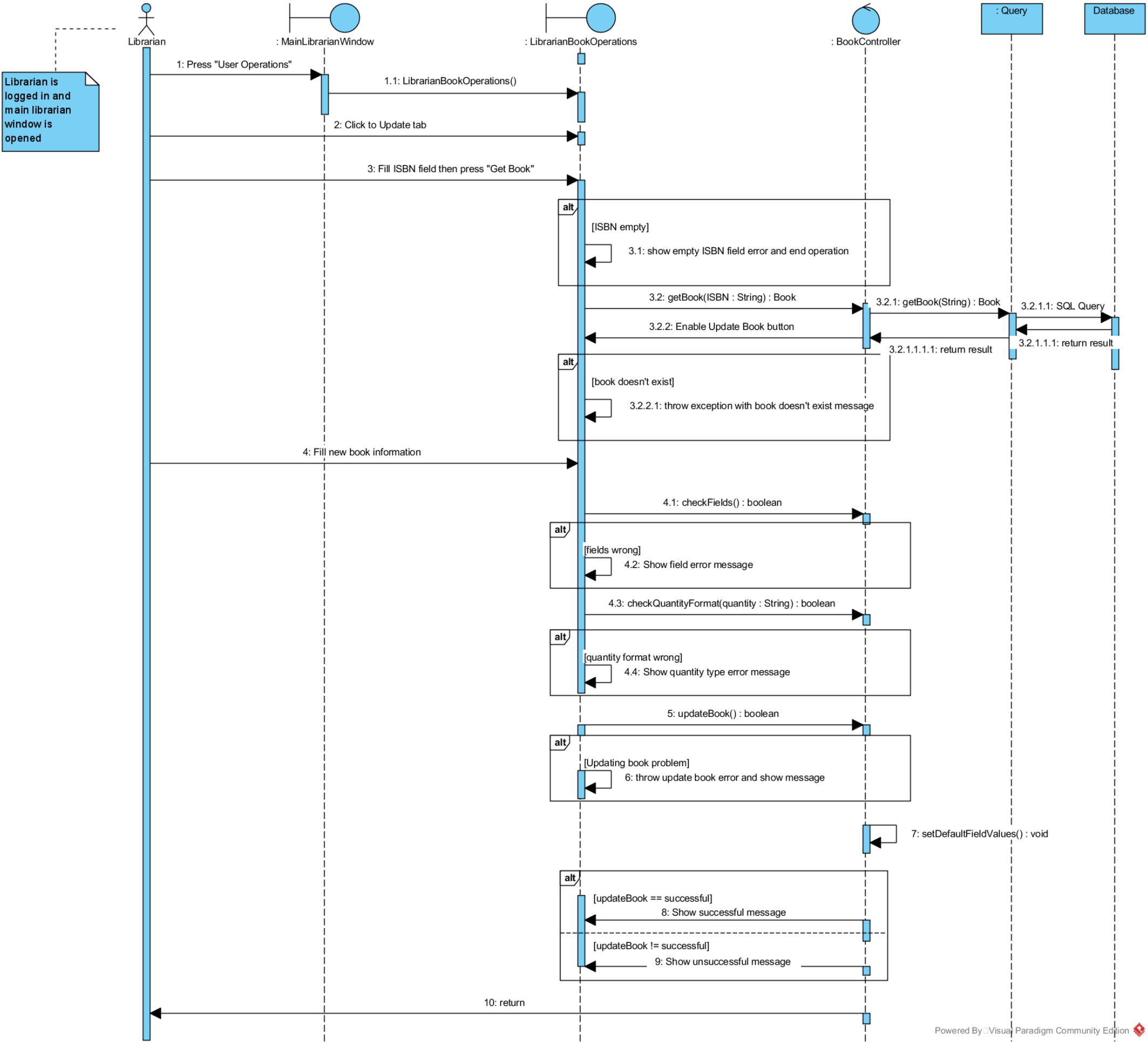| Library Book Loan System	Version: 1.0
Sequence Diagram Document	Date: 25/04/2017
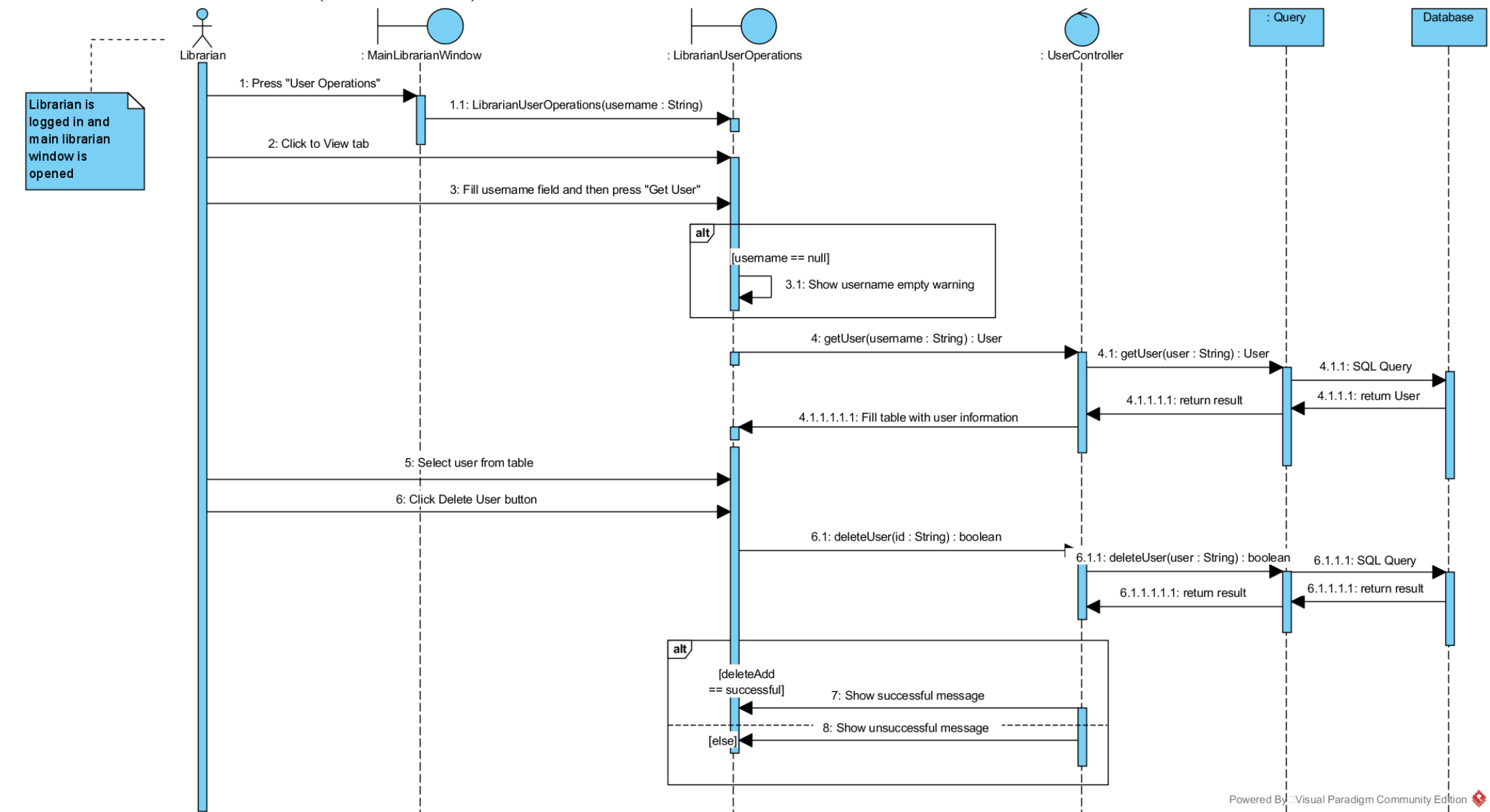
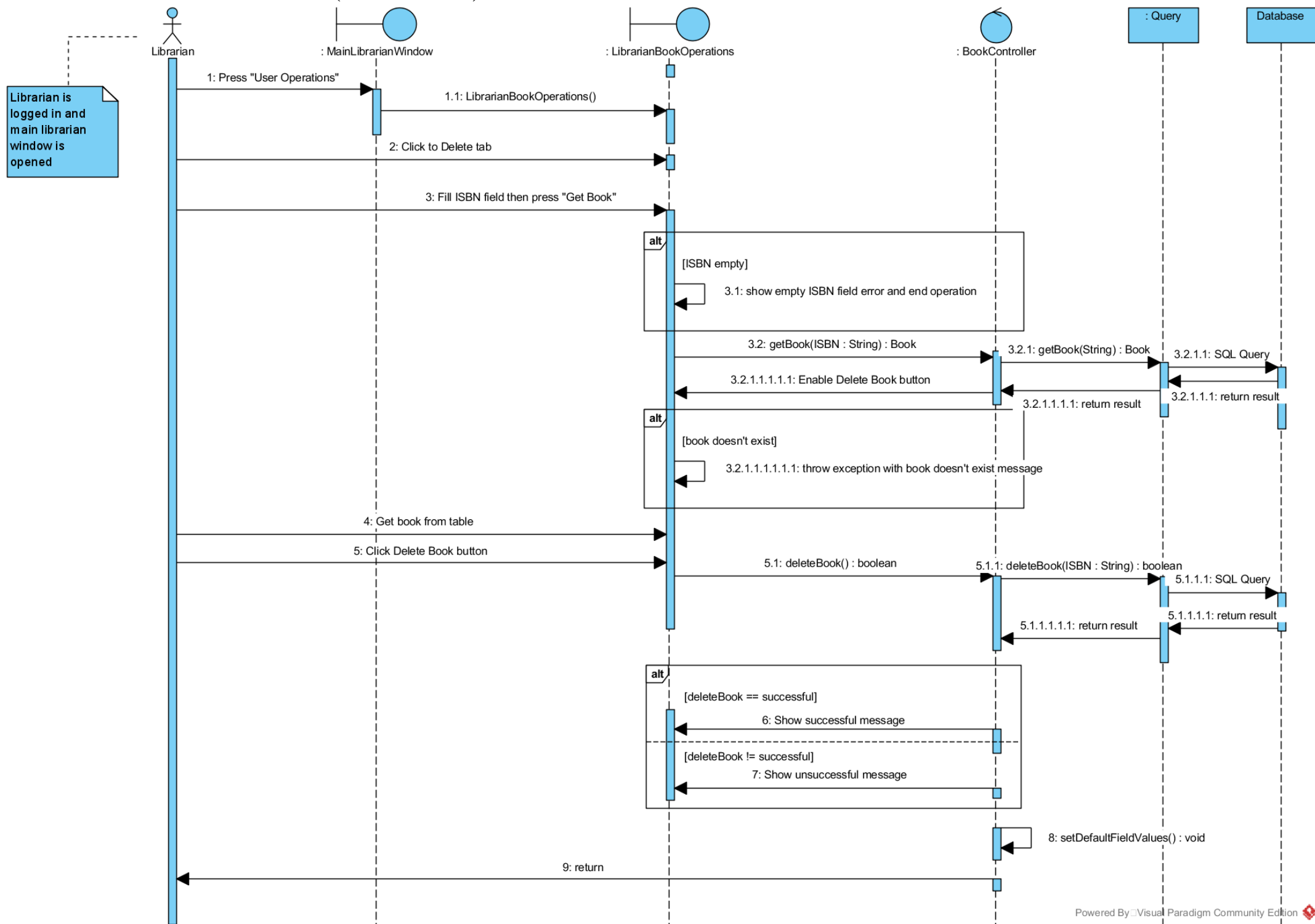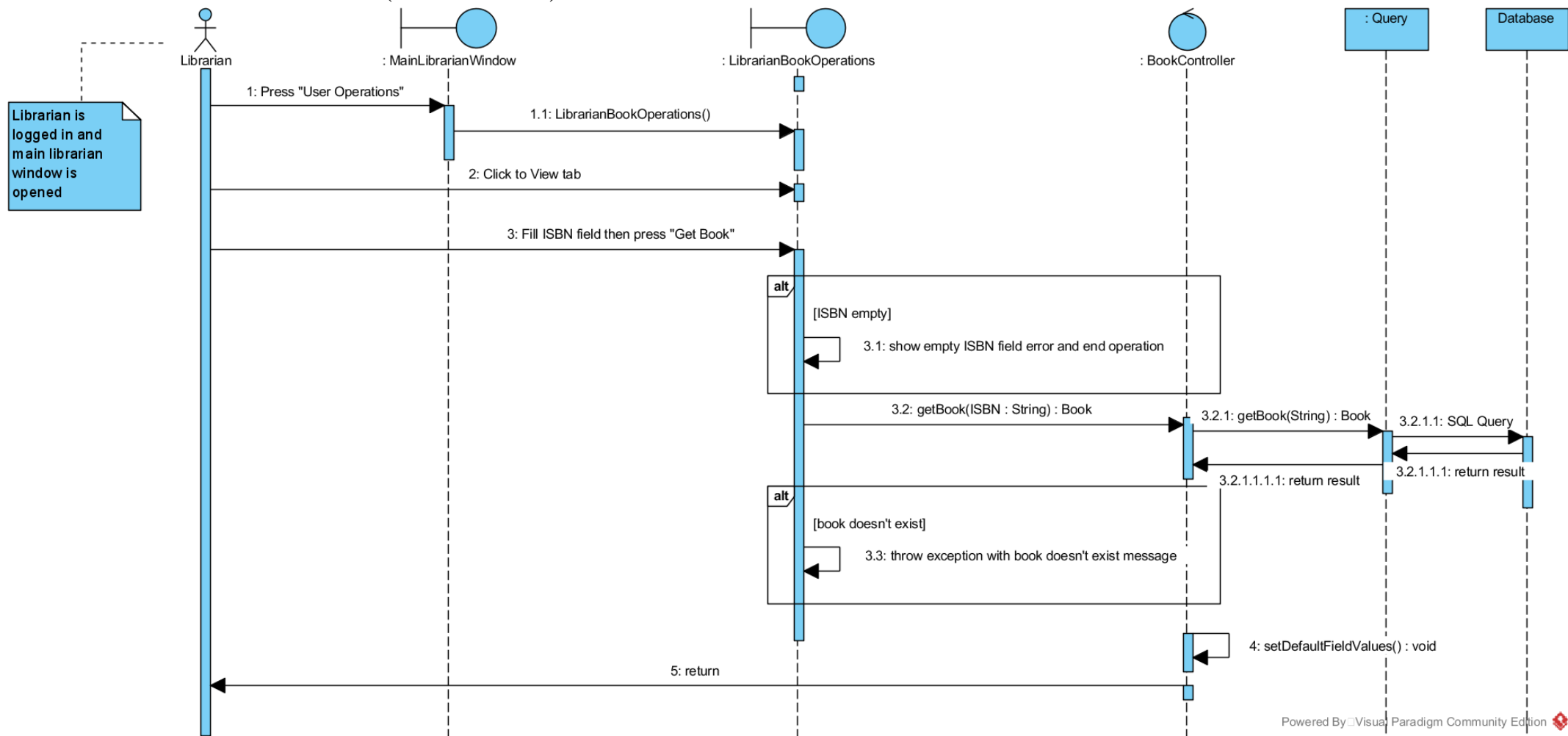## 9. Create Book (Use Case 13)
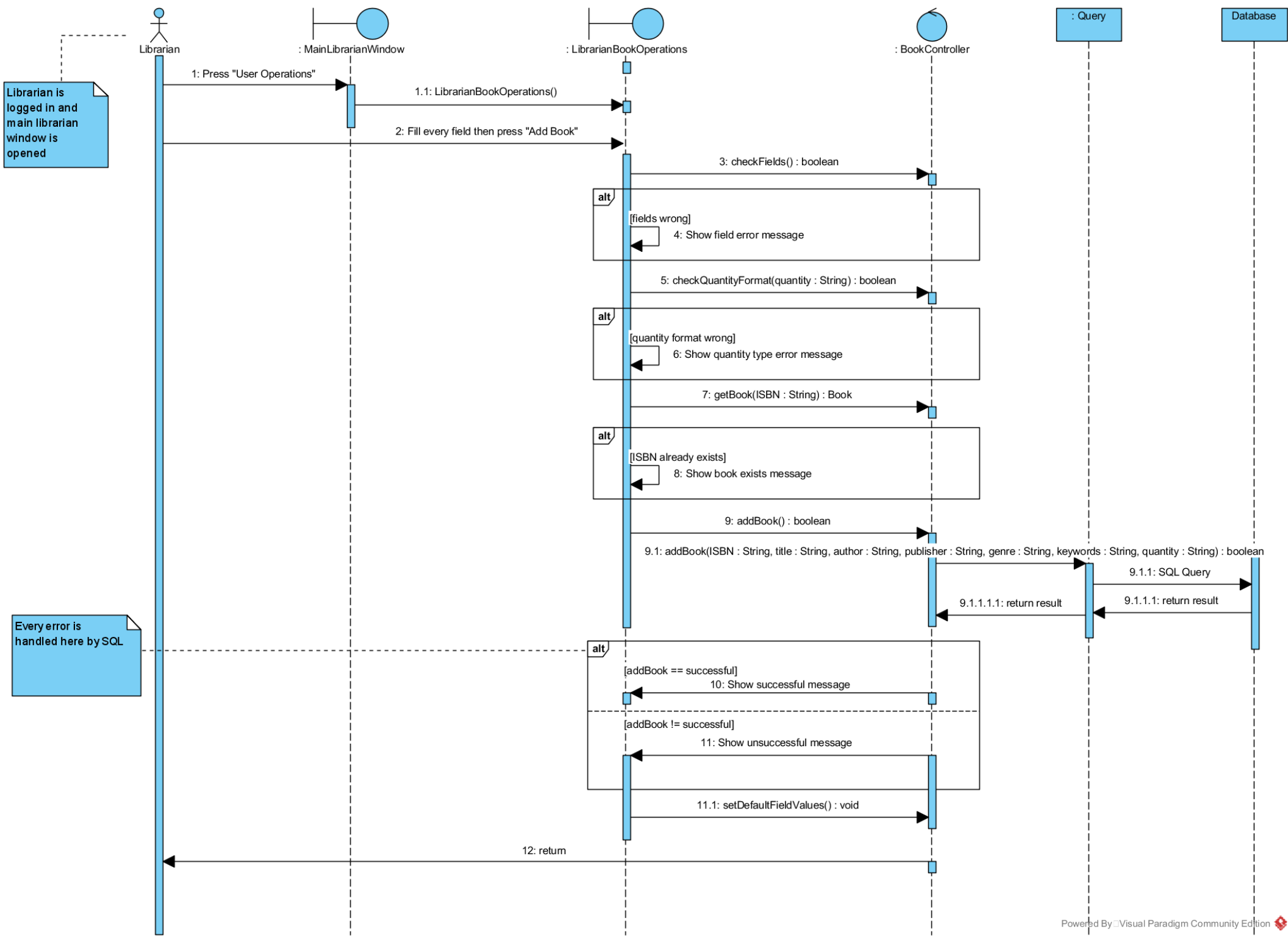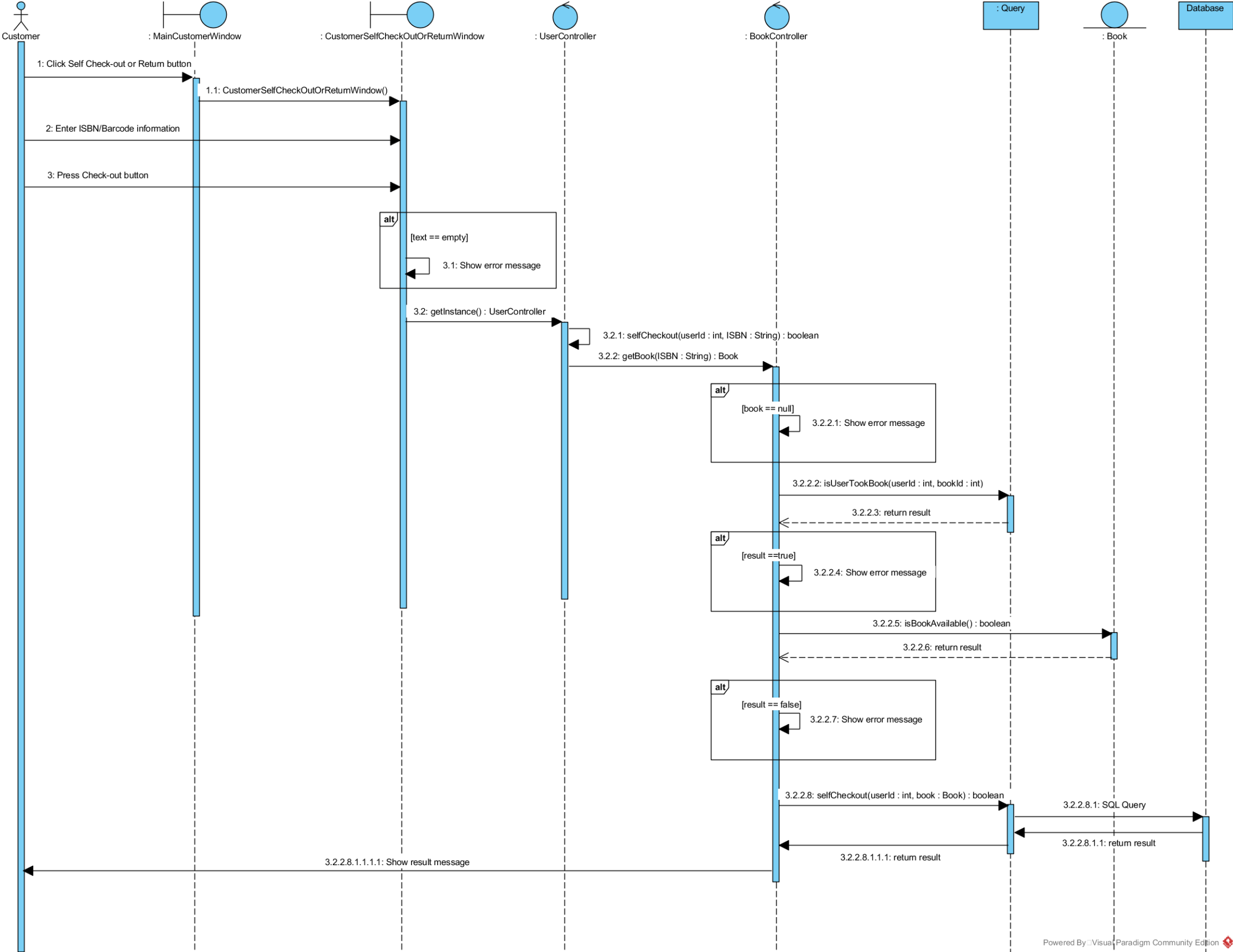
10. Update Book (Use Case 14)
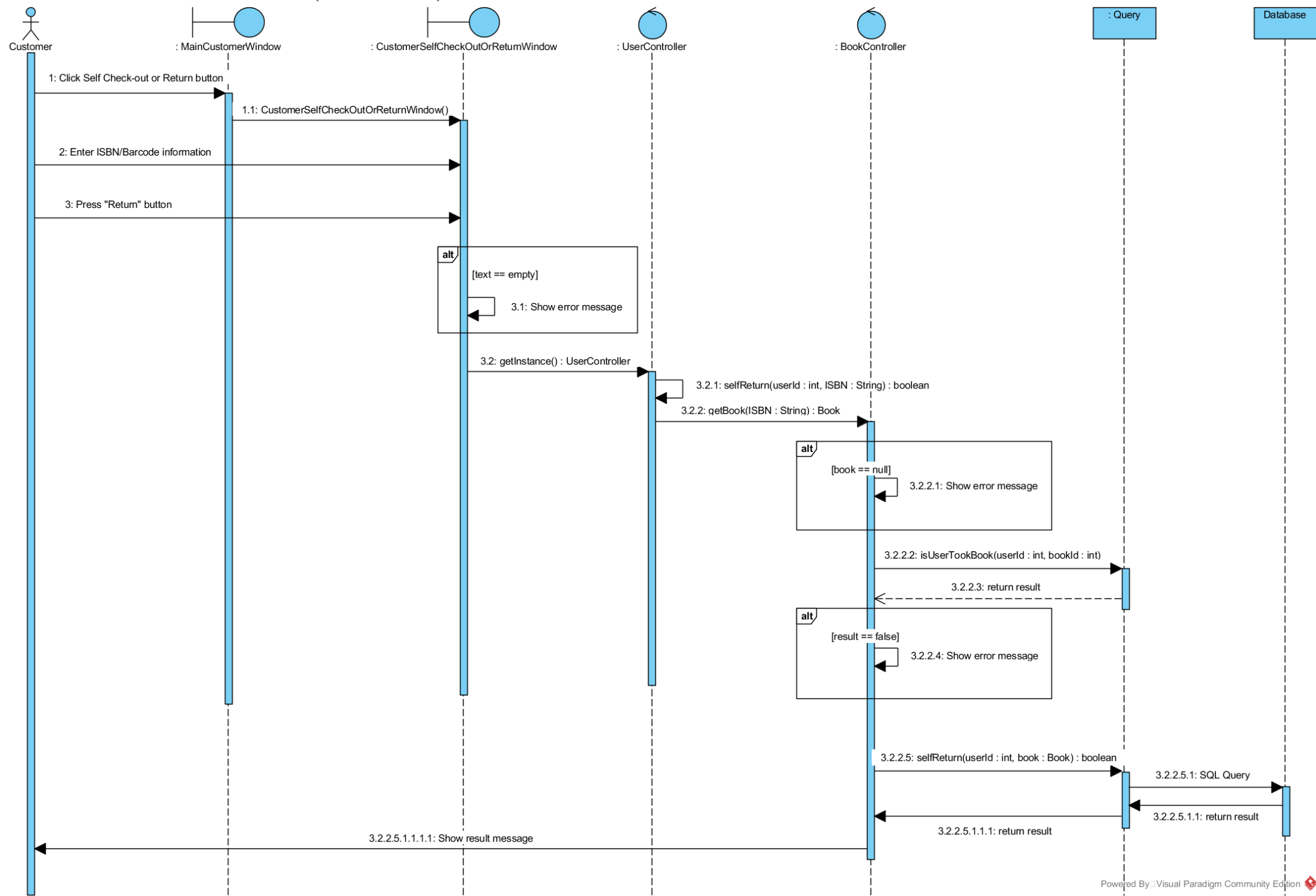
11. Delete Book (Use Case 15)
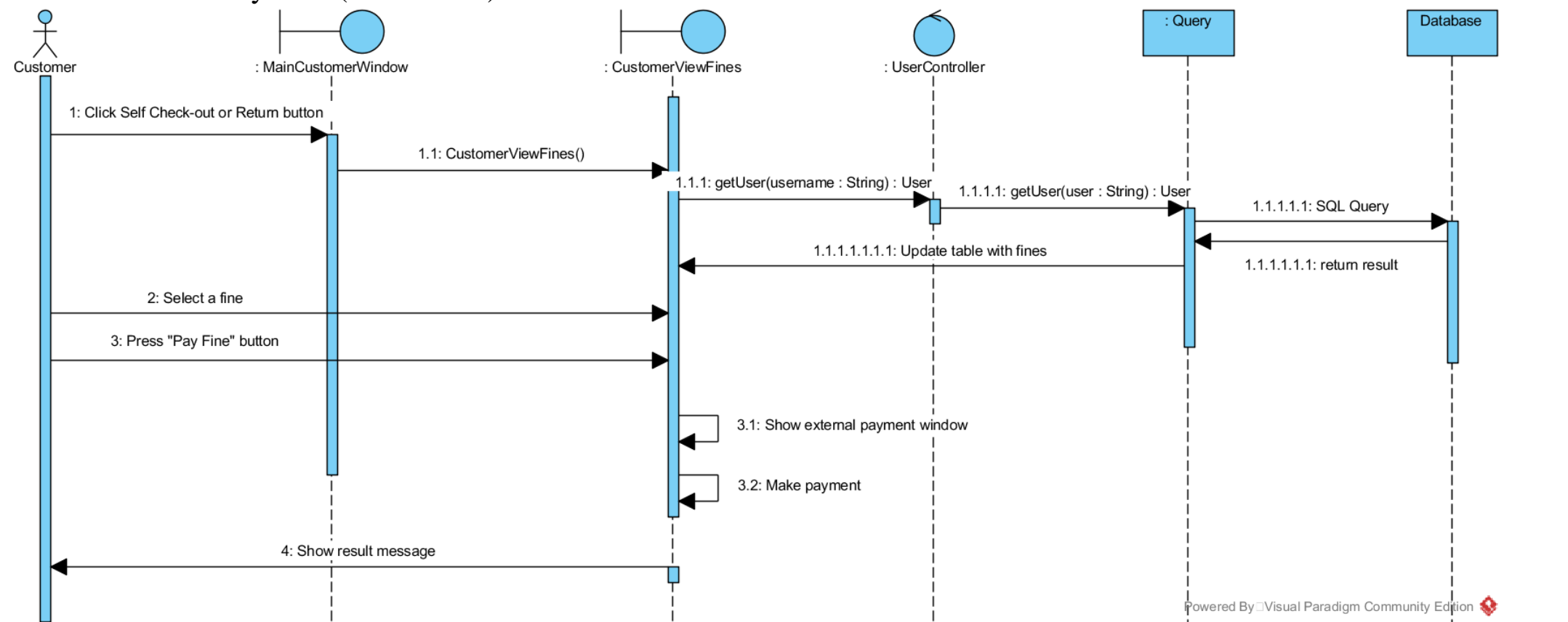

12. View Book (Use Case 16)

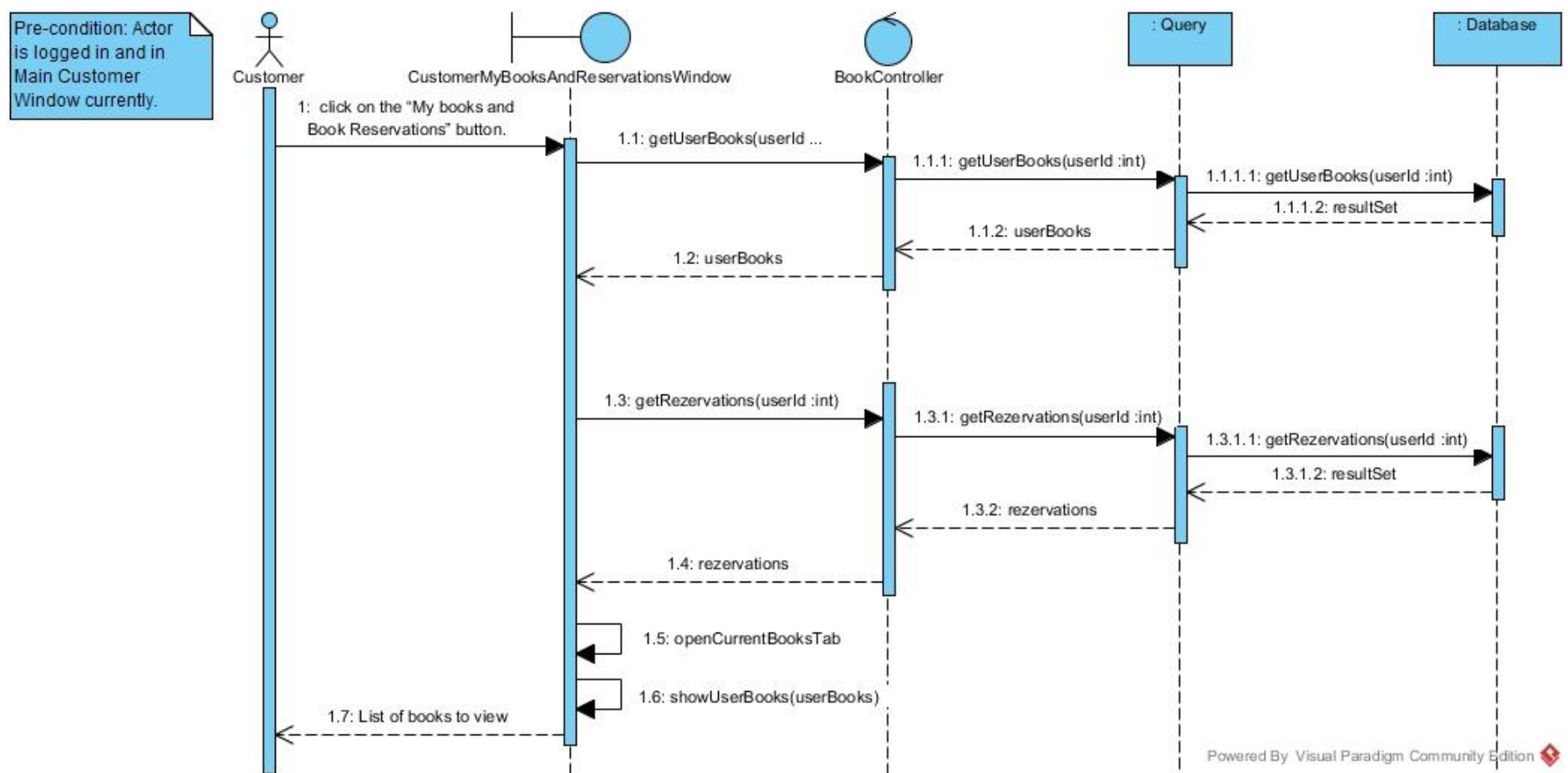## 13.　　　Self Check-out (Use Case 4)

14.   Self Return (Use Case 5)

15.   Pay Fine (Use Case 7)

16.   View My Books (Use Case 6)

17.   Add name to book waiting list (Use Case 8)

Pre-condition:
Customer is logged in and in Main Customer Window currently.