Software Requirements Specification

*1.Introduction*

*1.1 purpose of document*

This document is describing the specifications for E-bookstore

Website that can help people buy and sell books.

*1.2 Scope of product*

Developing virtual store on the Internet where customers that can help users search for the book they need , buy books , sell books , all of this from the comfort of home through the Internet.

*1.3 Overview of document*

The second chapter will contain the overall description section, that define the user characteristics and stake holders.

The third chapter will contain the requirements specification that describe the details of functions of the system

***2.Overall Description***

***2.1 User Characteristics***

-The Admin is expected to be able to use Internet

For to be able to access the website

-The User is expected to use the Internet

***2.2 Stakeholders***

Stakeholders are The authors of books , publishing companies , The users , Admin

**2.3 Platform**

This is Website so it will run on the web.

***3.0. Requirements Specification***

***3.1 Functional Requirements:***

***1-Register:*** User need to register first with their basic registration details and need to create a valid login email and password.

***2-login:*** Using valid login credentials, User/Admin need to login into the system in order to access the system.

***3-view books*** : Once user is logged into the, he/she may view all the added books with their details.

***4-View transactions:*** System allows admin to view all the transaction details of buying and selling a book

***5-View users:*** All the registered user details will be displayed to the admin

***6-Buy books:*** User can surf various book of their choice and buy them.

***7-Add books*:** System allows user to sell their books online buy added the book name and its details.

***8-Sell books:*** system allows user to sell their books online .

***9-View buyer:*** If any buyer is interested in buying a book or anyone buys a book from the user then buyer’s details will be displayed.

***10-view Purchase history:*** All the purchase history of user will be displayed with details

***3.2 Non-Functional Requirements:***

***performance:***

*-*The system must consume least computer resources so it can manage to initiate and respond fast.

-The system should be compatible with all modern browsers.

# *Safety and Security:*

**-**The system must handle safe login and logout through session.

-Hashing technology should be used to handle the secure login for user.

-The database should be secured from SQL injection to prevent leak or loss of information.

# *Reliability:*

-This program should be reliable and provide catching of exceptions so that unintended result does not occur such as system crashes, or data validation failures.

# *Usability:*

-The system should have user-friendly interface.

-The system should be easy to use for the various users.

# *Availability:*

-The system must be available 24/7, with no more than 20 min down time per day

***4.Class Diagram:***

***4.1 Initial Version:***

Diagram

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***4.2 intermediate Version:***

Diagram

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***4.3 Final Version:***

Diagram

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***4.4 Design Patterns:***

*1: SINGLETON*

![Diagram

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ooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)

We used singleton design pattern on Admin class because we want only 1 instance of admin.

*2-DELEGATION*

Diagram

Description automatically generated

We used delegation design pattern to minimize development cost by reusing methods , The delegator class is Books and the delegating method is Add\_data()

and the delegate class is User .

*3-ABSTRACTION-OCCURRENCE*

Diagram

Description automatically generated

We used Abstraction-Occurrence design pattern to represent the members of each set of occurrences without duplicating the common information , Books have common info and we set them in Books Class , and the different info we set them in Book\_item Class.

*4-Read-Only Interface*

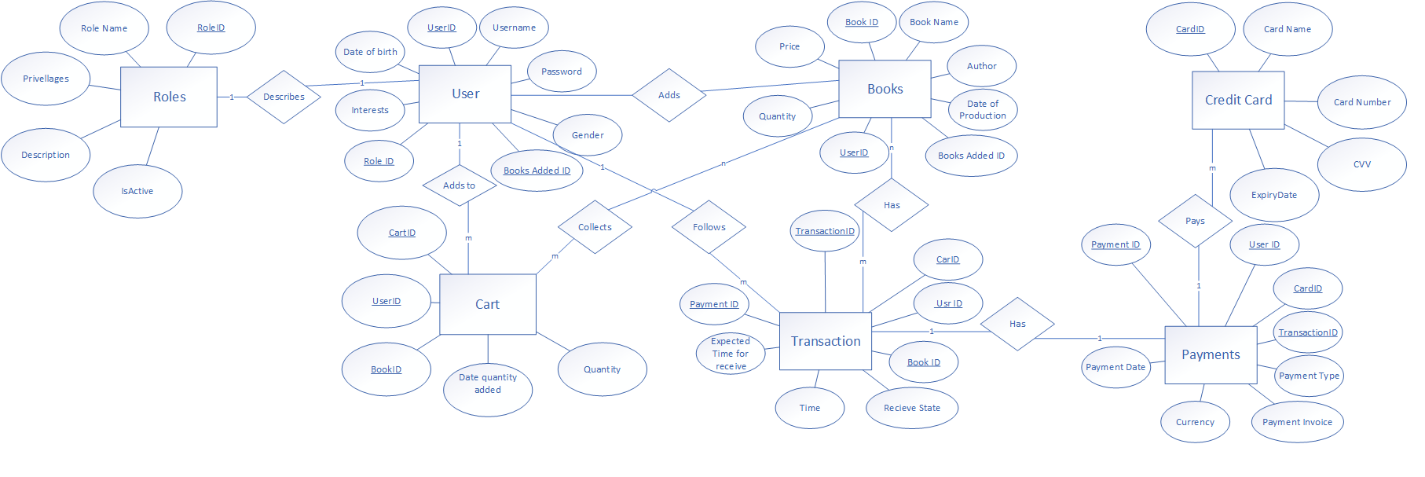
Diagram

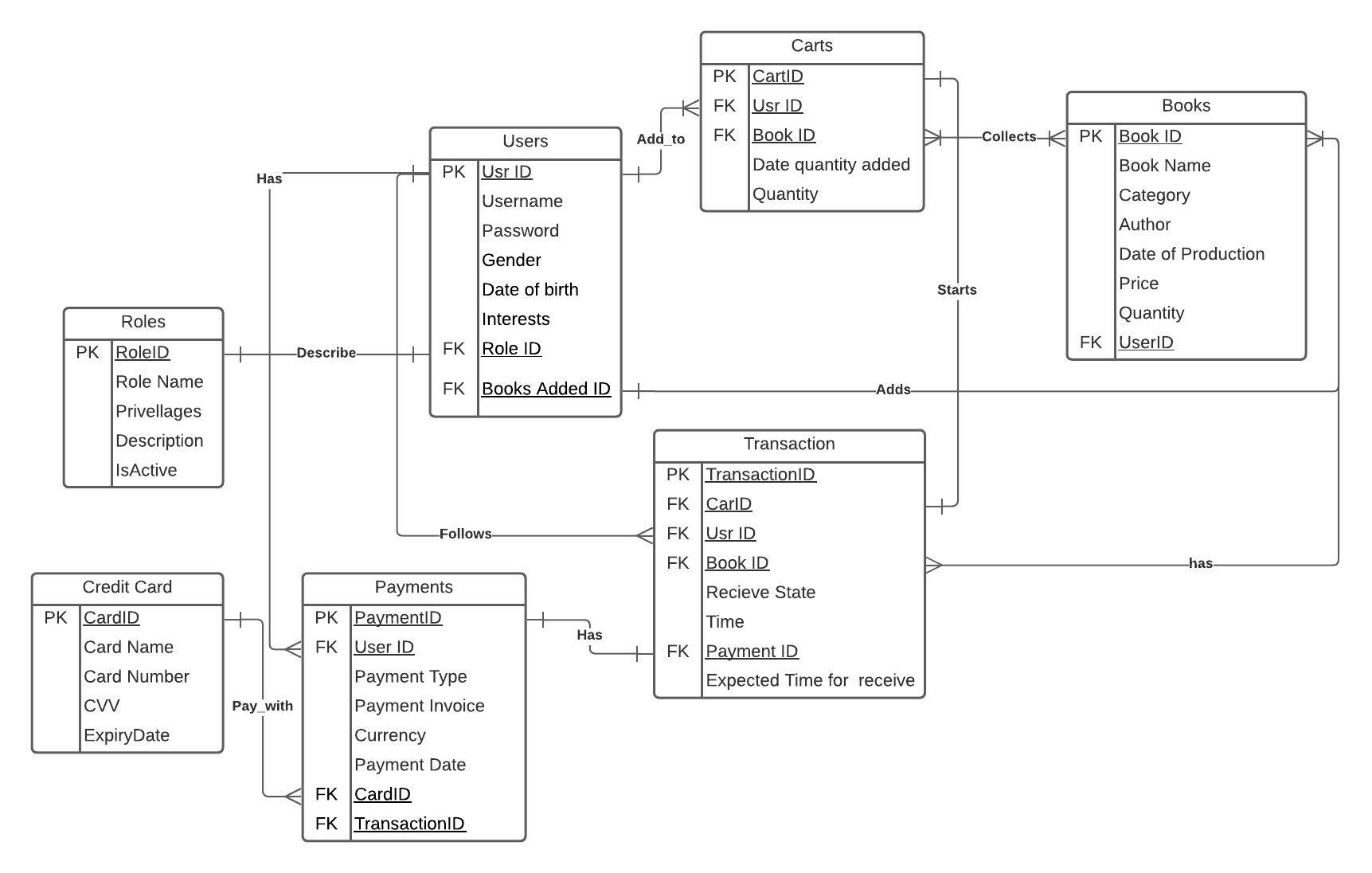
Description automatically generated

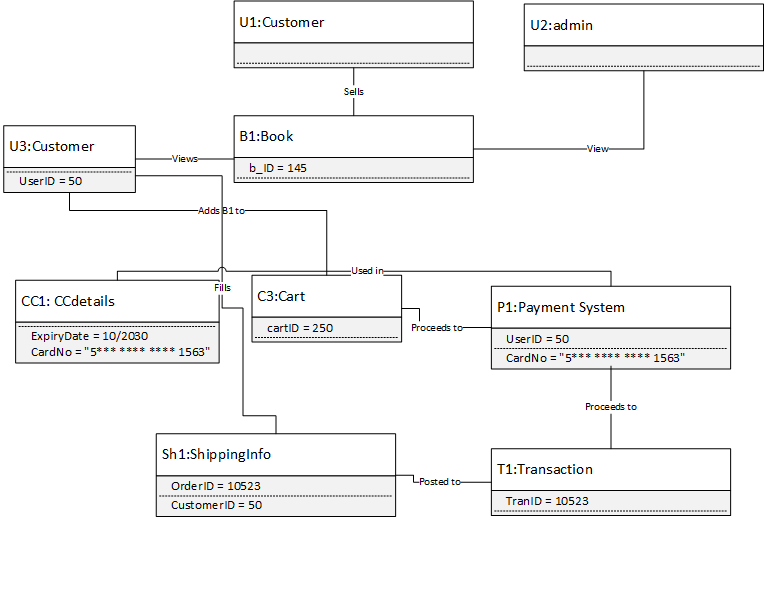
We used Read-only-interface design pattern because we want certain privileged classes to be able to modify attributes of objects that are otherwise immutable the admin here can modify in Transaction Class , and User can only view the Transaction Class .

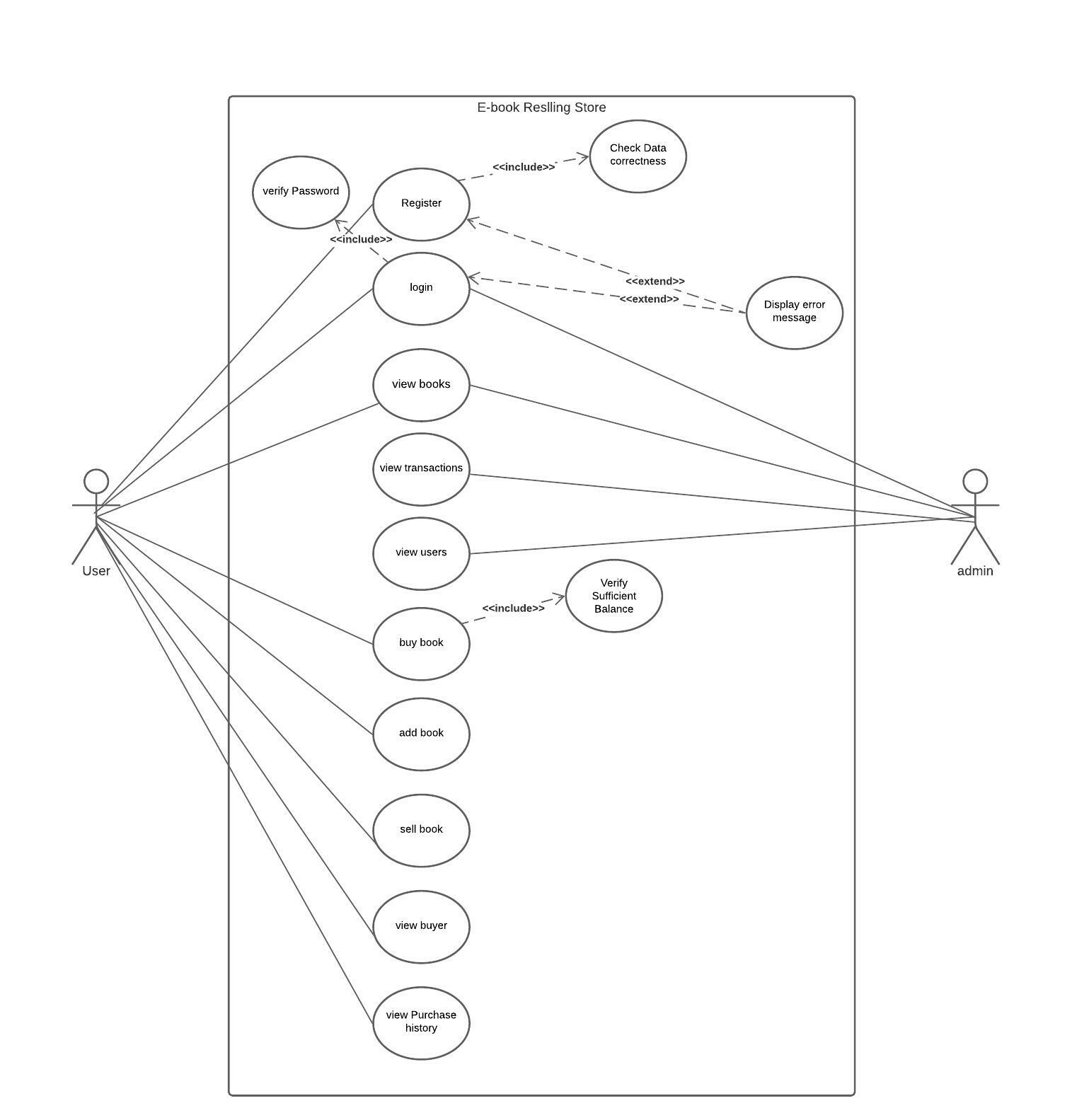
***5.Database Description:***

*ERD:*



***Schema:***

***6.Object Diagram:***

***7.Use Case:***

|  |  |
| --- | --- |
| Actor initiates the use case | User |
| Pre-conditions | User don’t have account In the system |
| Steps in the scenario | First the user will click the register then fill the register form . after fill the form the controller will check if the data is valid & correct or no , if correct the user data will be saved in database if not correct error message will be displayed. |
| Post-conditions | User have account in system |
| Actor who benefits from the use case | user |
|  |  |

***Use case scenario:***

|  |  |
| --- | --- |
| Actor initiates the use case | User , admin |
| Pre-conditions | System should be available |
| Steps in the scenario | First user or admin click on login button then fill login form then click submit and their data compared to the data in database if it same so user or admin can access the system if not error message will displayed. |
| Post-conditions | User , admin can access the system |
| Actor who benefits from the use case | User , admin |

|  |
| --- |
| login |

|  |
| --- |
| registration |

|  |  |
| --- | --- |
| Actor initiates the use case | User , admin |
| Pre-conditions | Logged in |
| Steps in the scenario | After user or admin login in system completed he can click on view books button and view different type of books |
| Post-conditions | Can view books |
| Actor who benefits from the use case | User . admin |

|  |
| --- |
| View books |

|  |  |
| --- | --- |
| Actor initiates the use case | admin |
| Pre-conditions | Logged in |
| Steps in the scenario | First the admin login in system completed then he can access the system when he click view transactions button the system return all transactions and display them. |
| Post-conditions | The admin can view all transaction |
| Actor who benefits from the use case | Admin |

|  |
| --- |
| **view transactions** |

|  |  |
| --- | --- |
| Actor initiates the use case | admin |
| Pre-conditions | Logged in |
| Steps in the scenario | First the admin shall logged in in the system, then he can access the system when he click view user button , if he has he can view all users in system and can edit user , blocked user and so on |
| Post-conditions | The admin can view all users in system |
| Actor who benefits from the use case | Admin |

|  |
| --- |
| View users |

|  |  |
| --- | --- |
| Actor initiates the use case | User |
| Pre-conditions | Logged in , have sufficient balance |
| Steps in the scenario | After he access the system , he click on buy books button and choose book to buy , the book add to cart ,then go to the cart page and click buy ,the system check if he has sufficient balance to buy this book or hasn’t , if he has The system approves this transaction . if not the error message will displayed that transaction can not be done |
| Post-conditions | User can buy books from system |
| Actor who benefits from the use case | User |

|  |
| --- |
| Buy books |

|  |  |
| --- | --- |
| Actor initiates the use case | user |
| Pre-conditions | Logged in |
| Steps in the scenario | After he access the system, he click on add books, the system take him to add books page ,then click on upload books ,the system check Whether this book fits the rules of the system or not |
| Post-conditions | The user can add books on the system |
| Actor who benefits from the use case | User |

|  |
| --- |
| Add books |

|  |  |
| --- | --- |
| Actor initiates the use case | User |
| Pre-conditions | Logged in |
| Steps in the scenario | After he access the system, he click on sell books, the system take him to sell books page then he choose the book that he want sell it and put a price and wait until anyone want buy it |
| Post-conditions | User sell books |
| Actor who benefits from the use case | user |

|  |
| --- |
| Sell books |

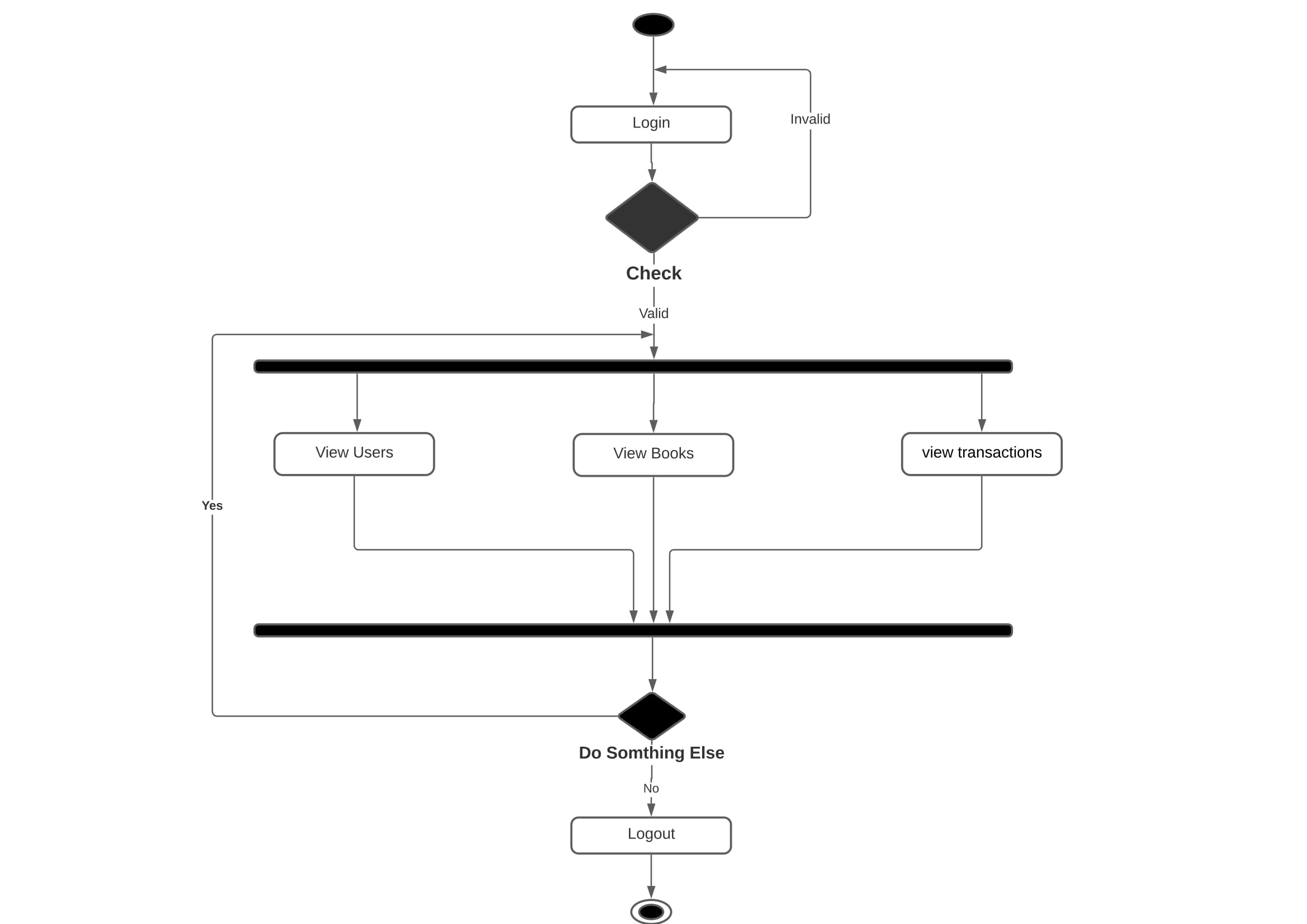
|  |  |
| --- | --- |
| Actor initiates the use case | User |
| Pre-conditions | Logged in |
| Steps in the scenario | After he access the system he click on view buyer button then system take him to view buyer page and view all buyer then choose one to sell book to him |
| Post-conditions | User View buyer |
| Actor who benefits from the use case | User |

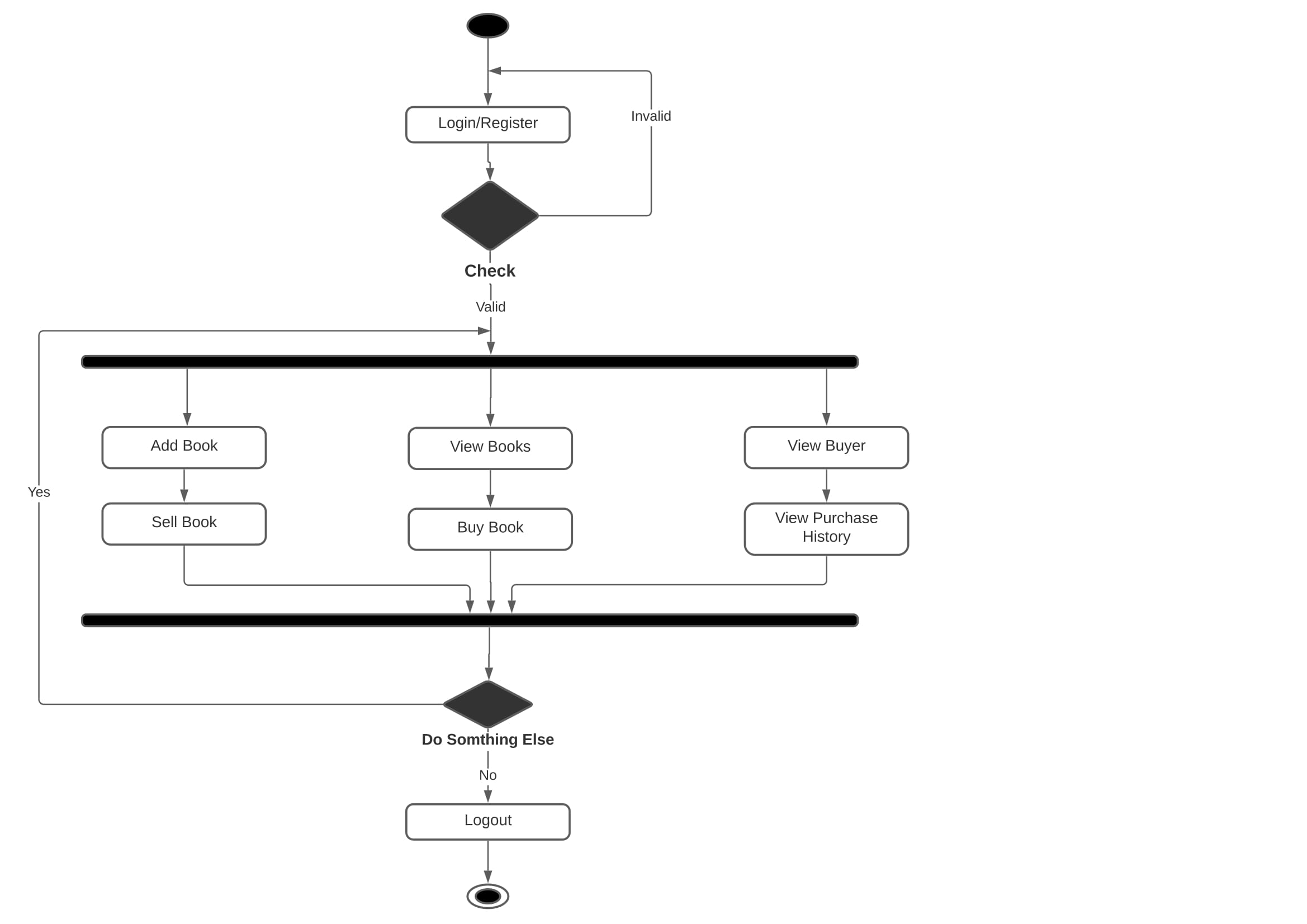
|  |  |
| --- | --- |
| Actor initiates the use case | User |
| Pre-conditions | Logged in |
| Steps in the scenario | After he access the system ,he click on view purchase history then system take him to purchase history page and he can view all purchases in his account |
| Post-conditions | He can view all purchase history in his account |
| Actor who benefits from the use case | user |

|  |
| --- |
| **View buyer** |

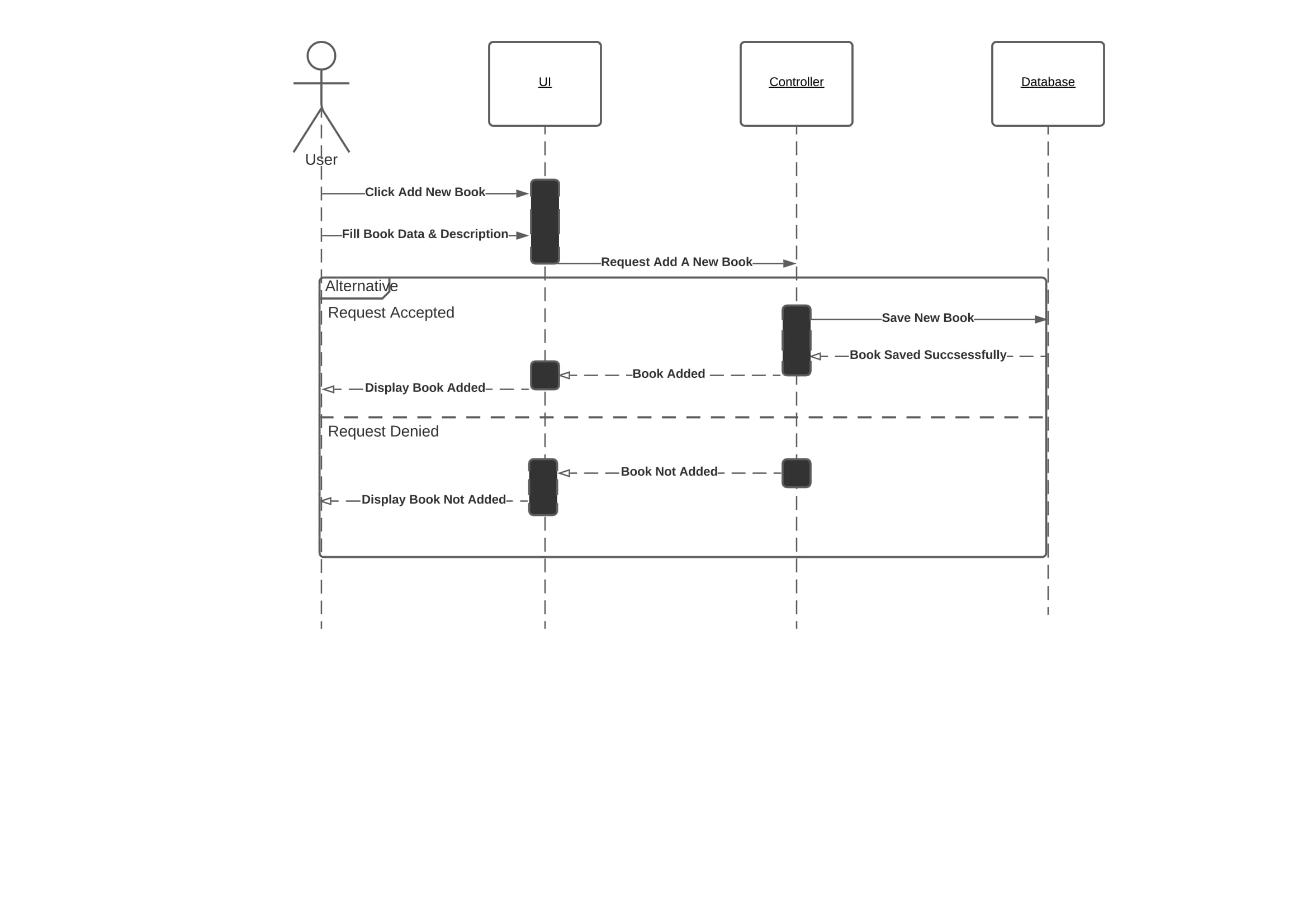
|  |
| --- |
| **View Purchase history** |

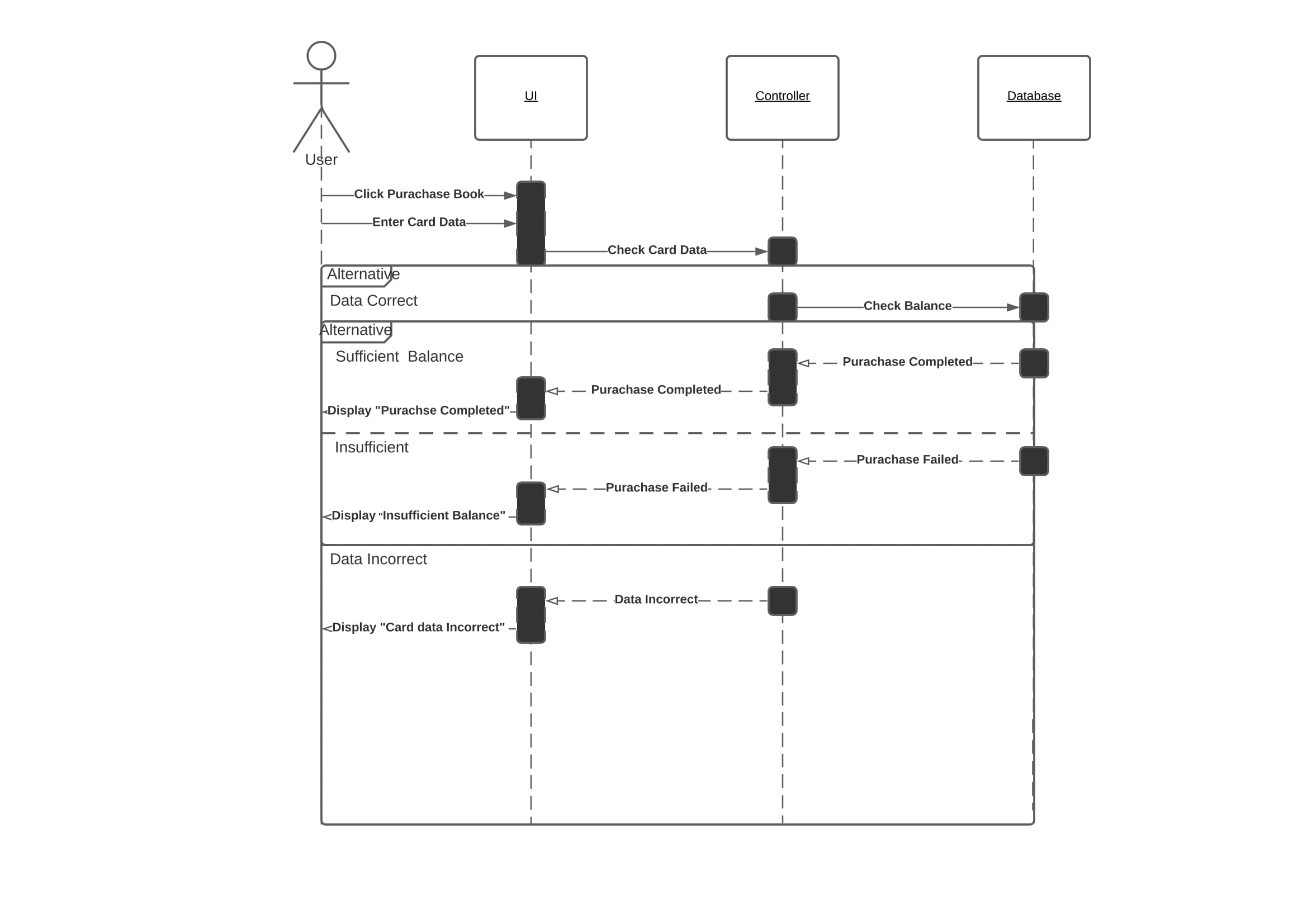
***8.Activity Diagram:***

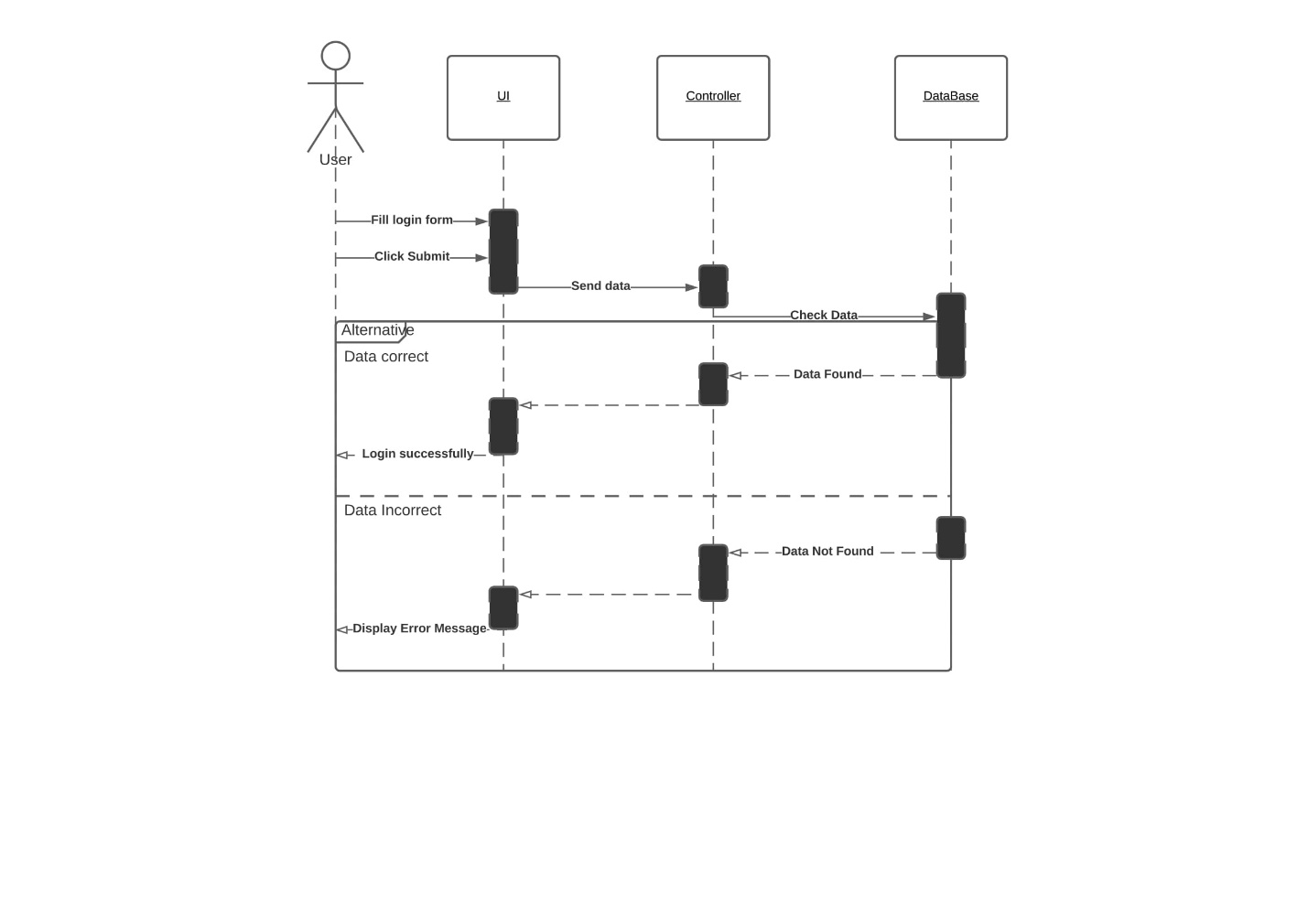
1-Admin Act:

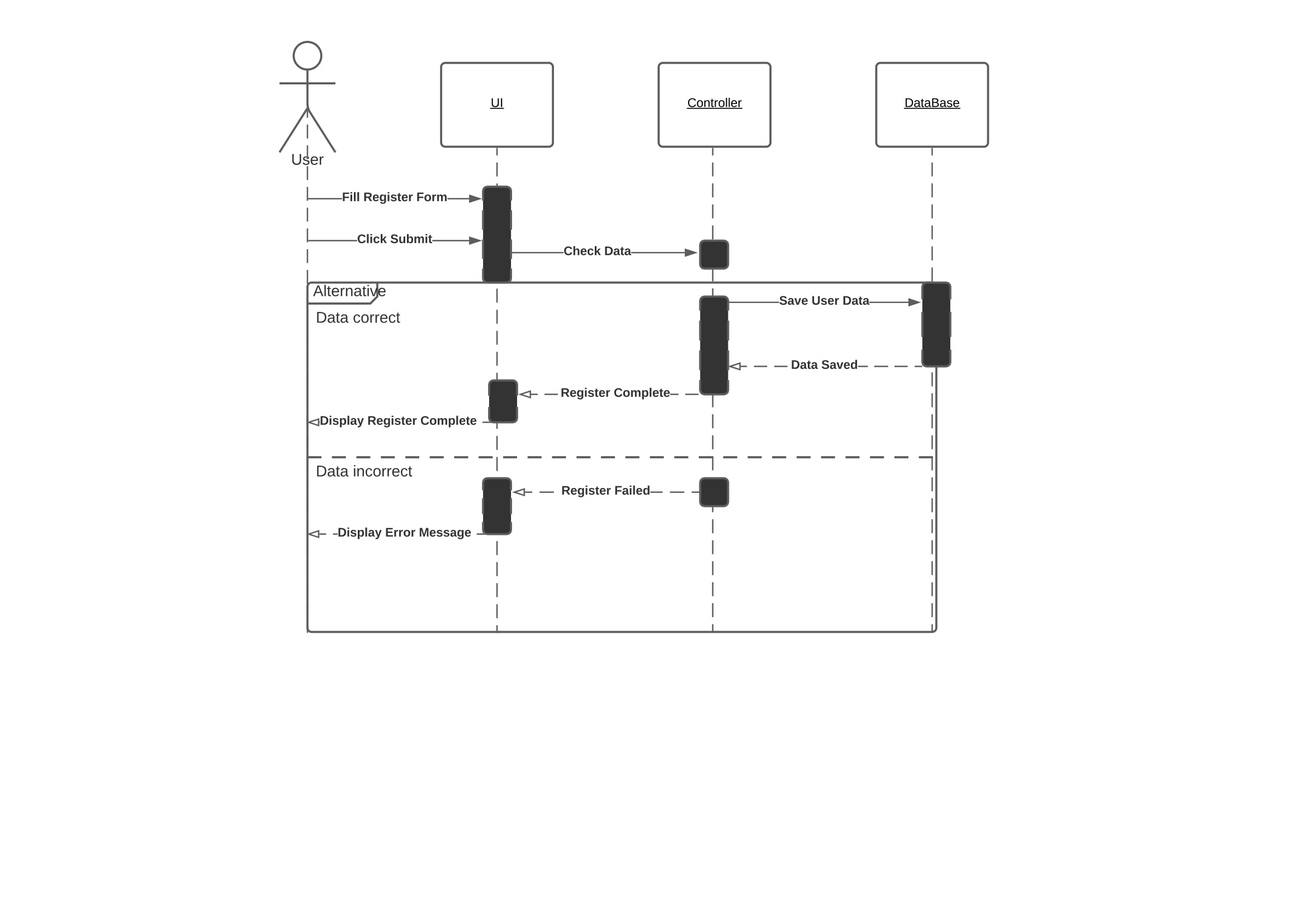
2-User Act:

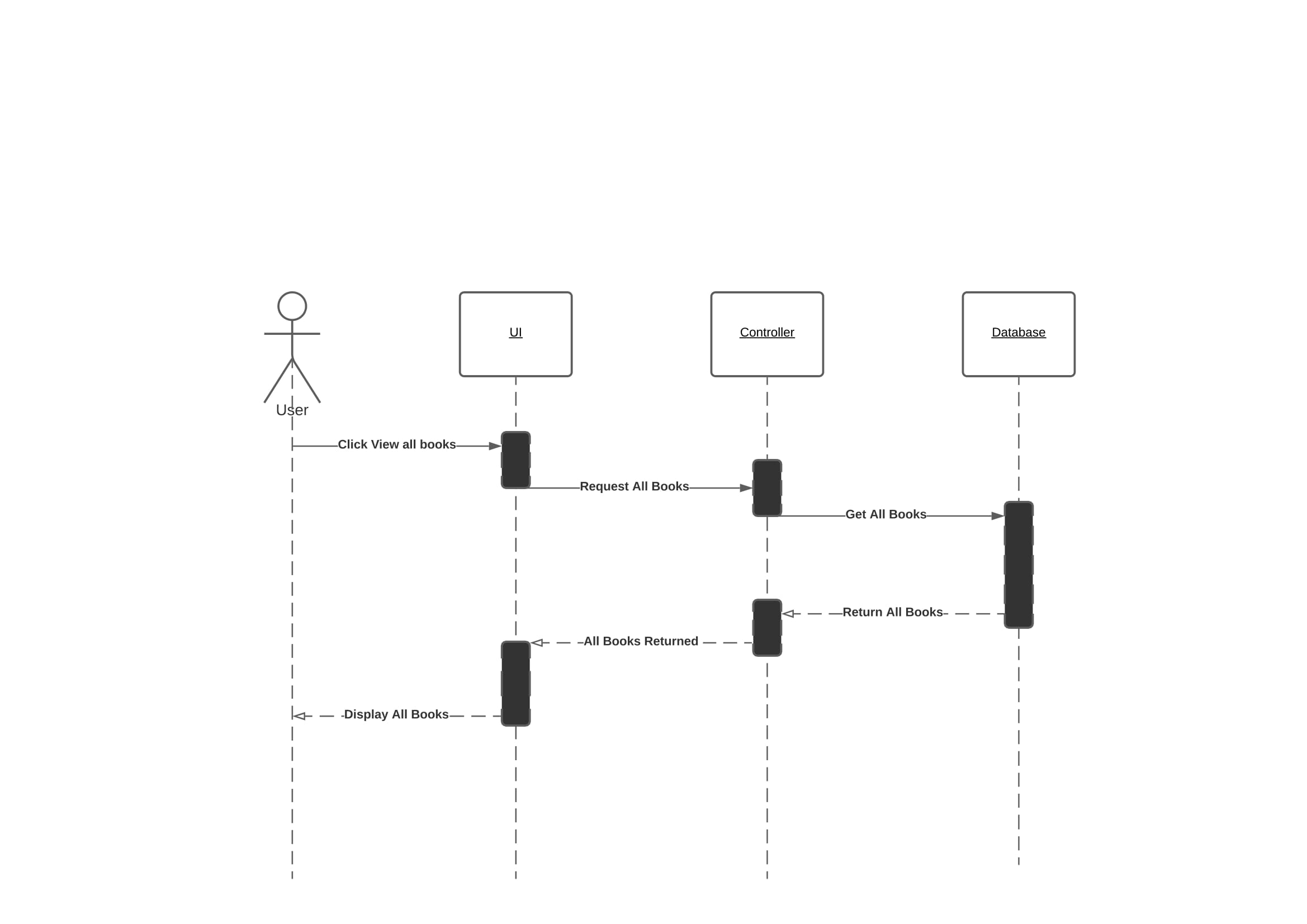
***10.Sequence Diagram:***

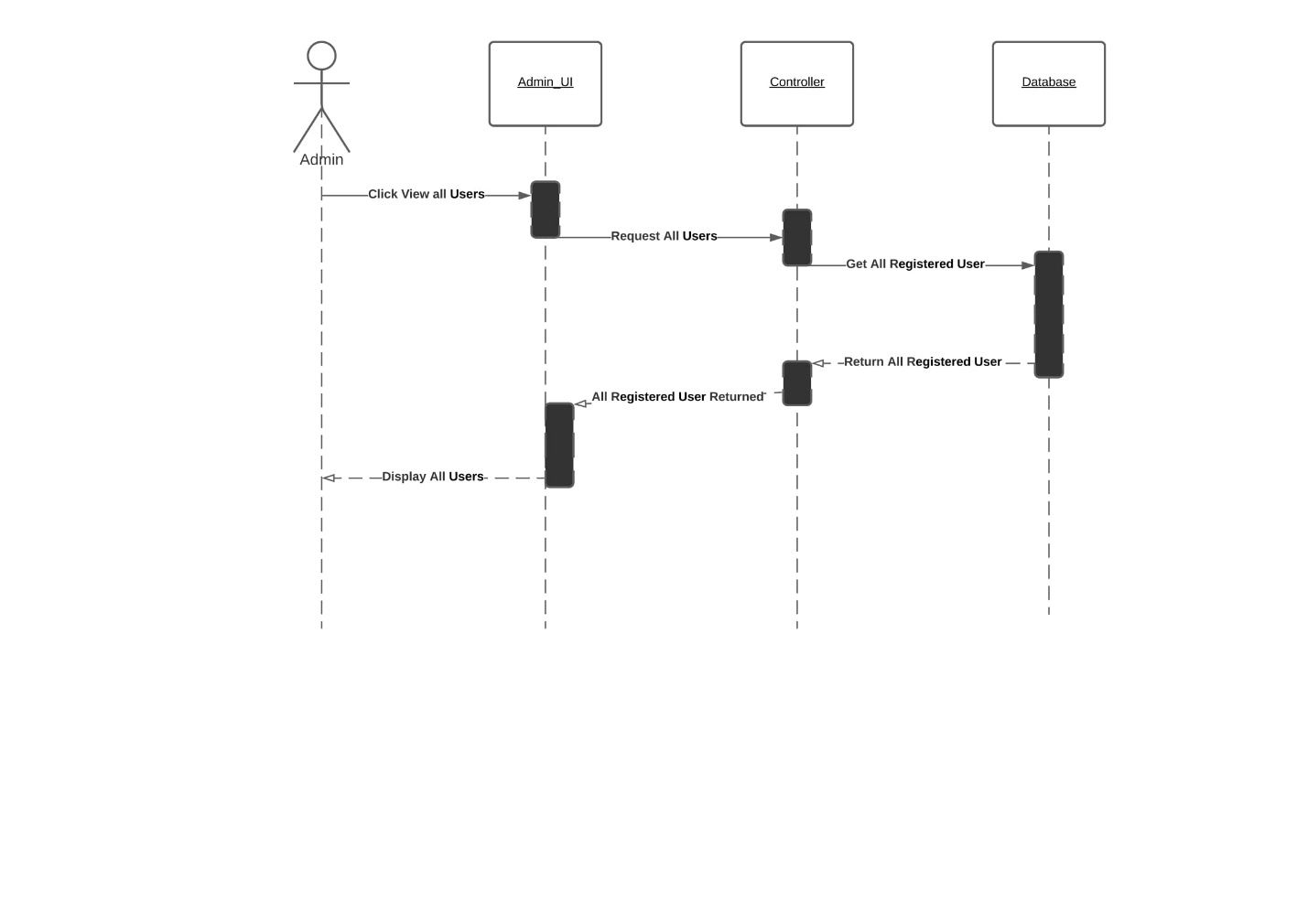
1-Add Book:

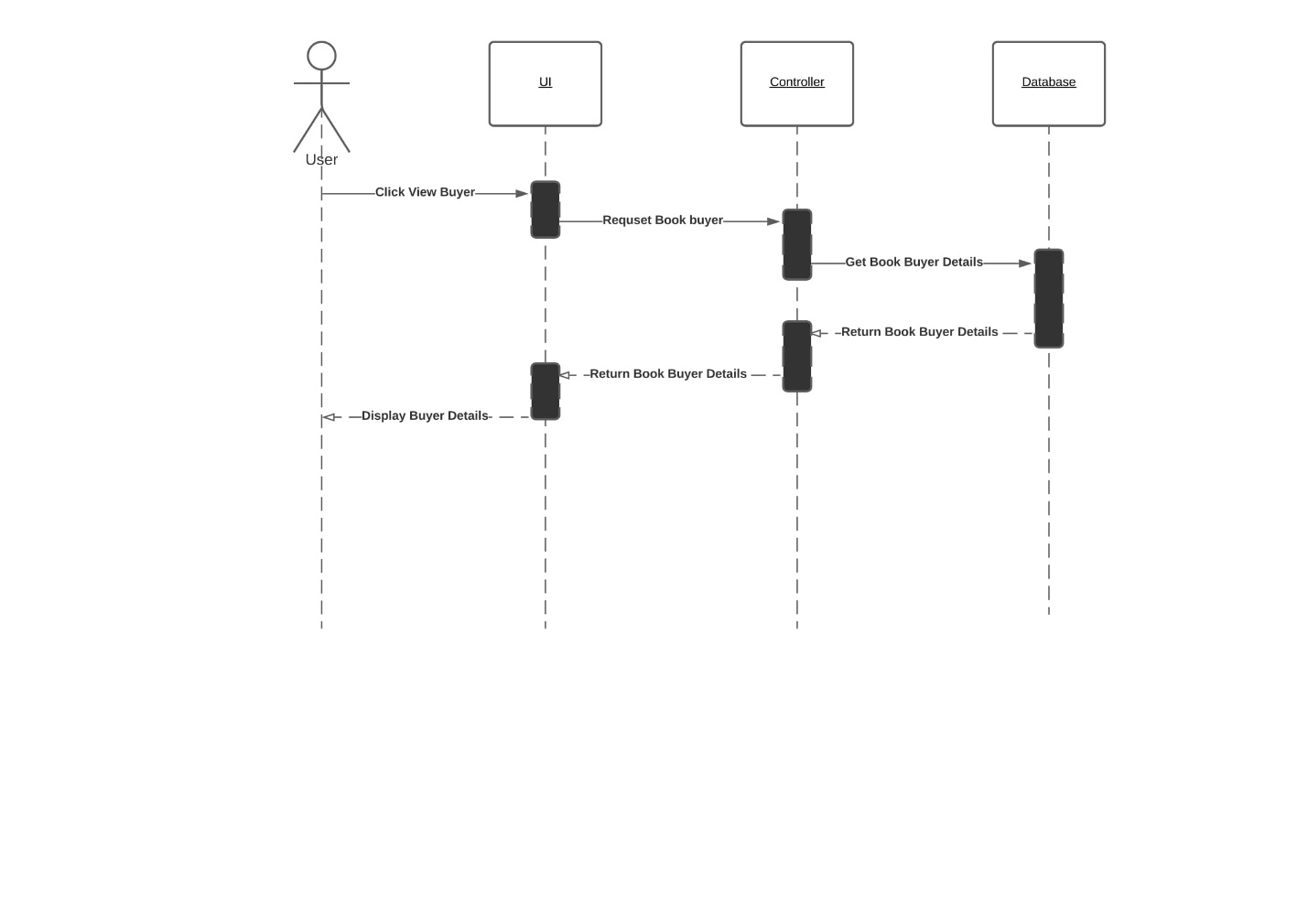
2- Buy Book:

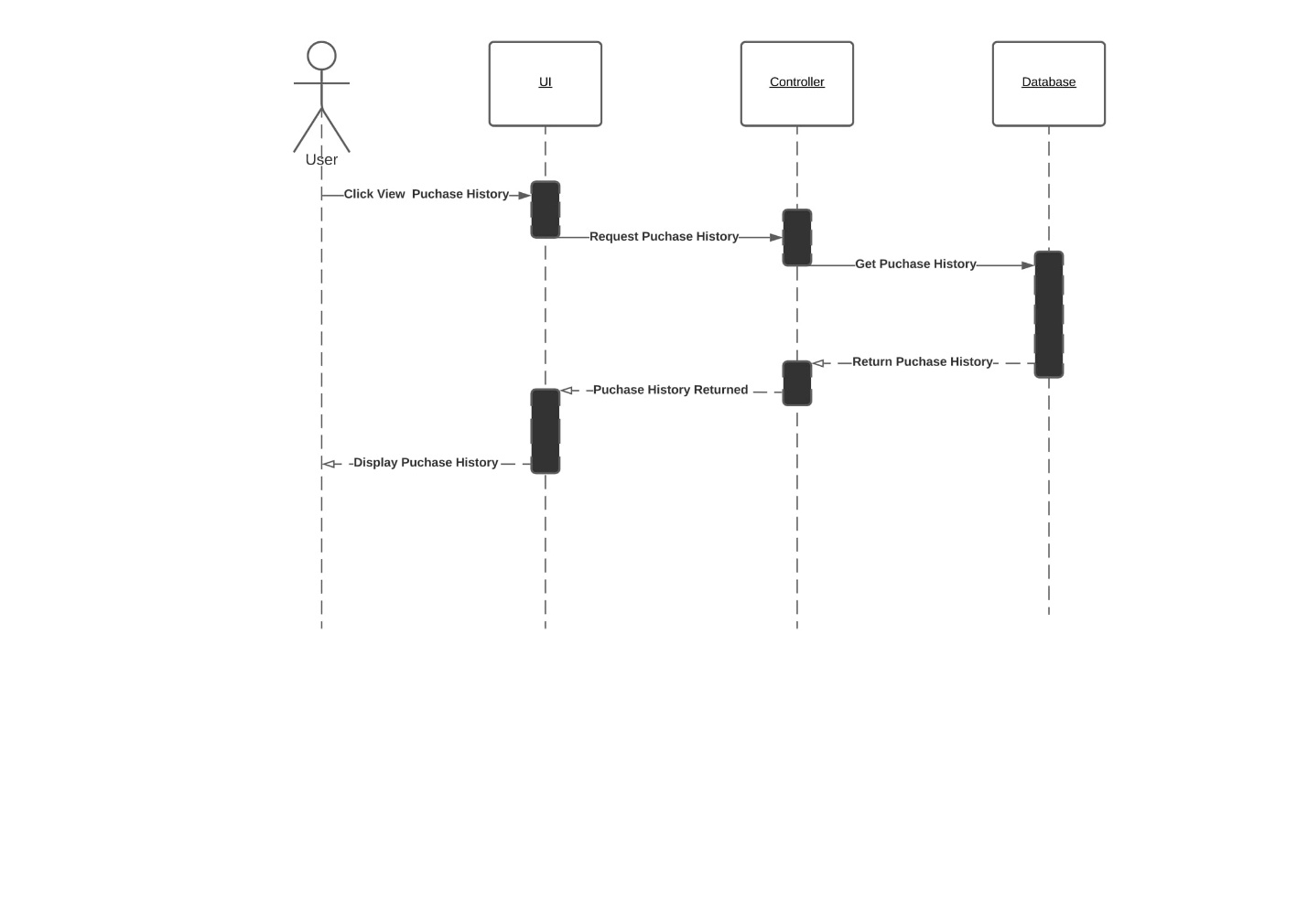
3-Login:

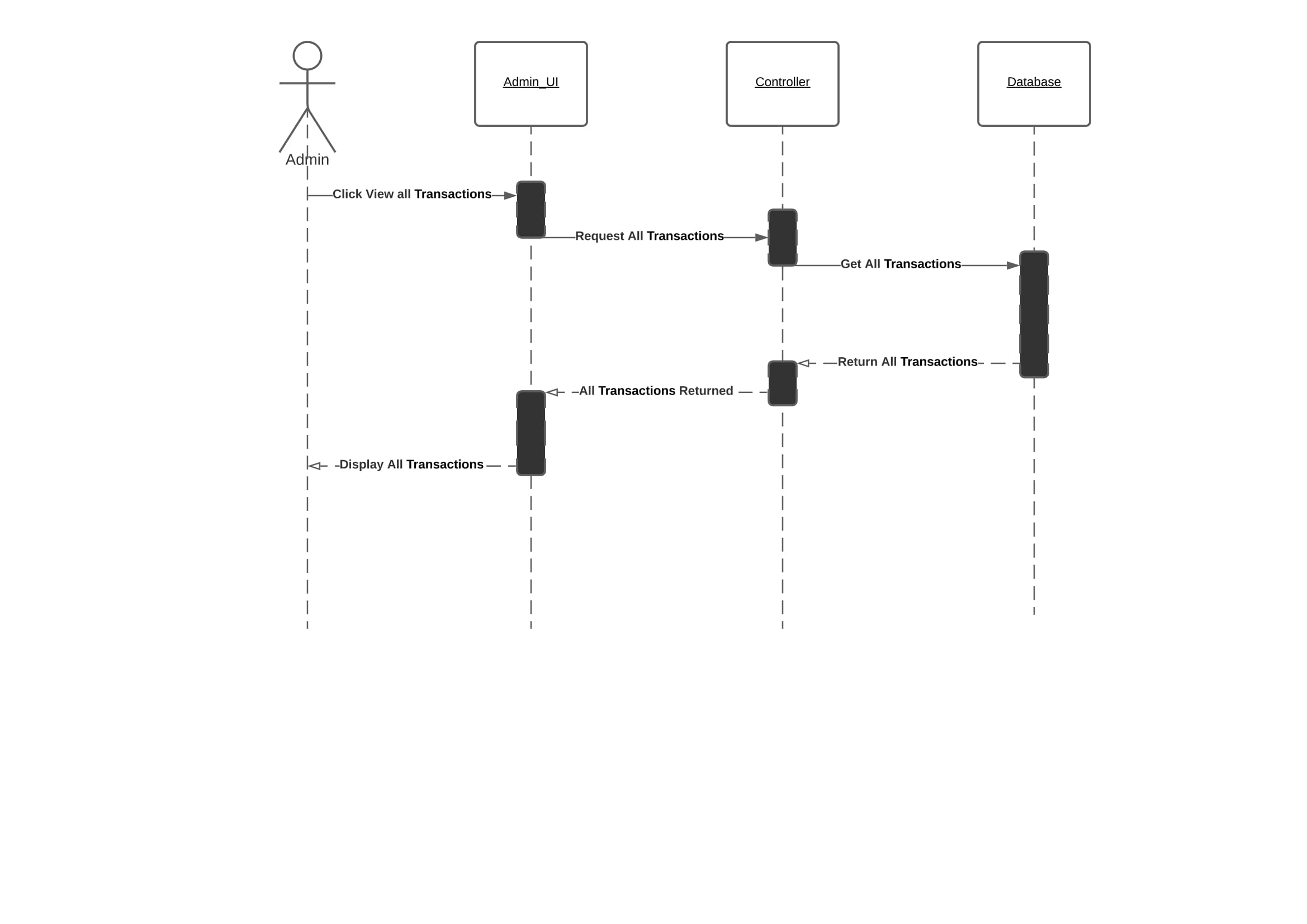
4-Register:

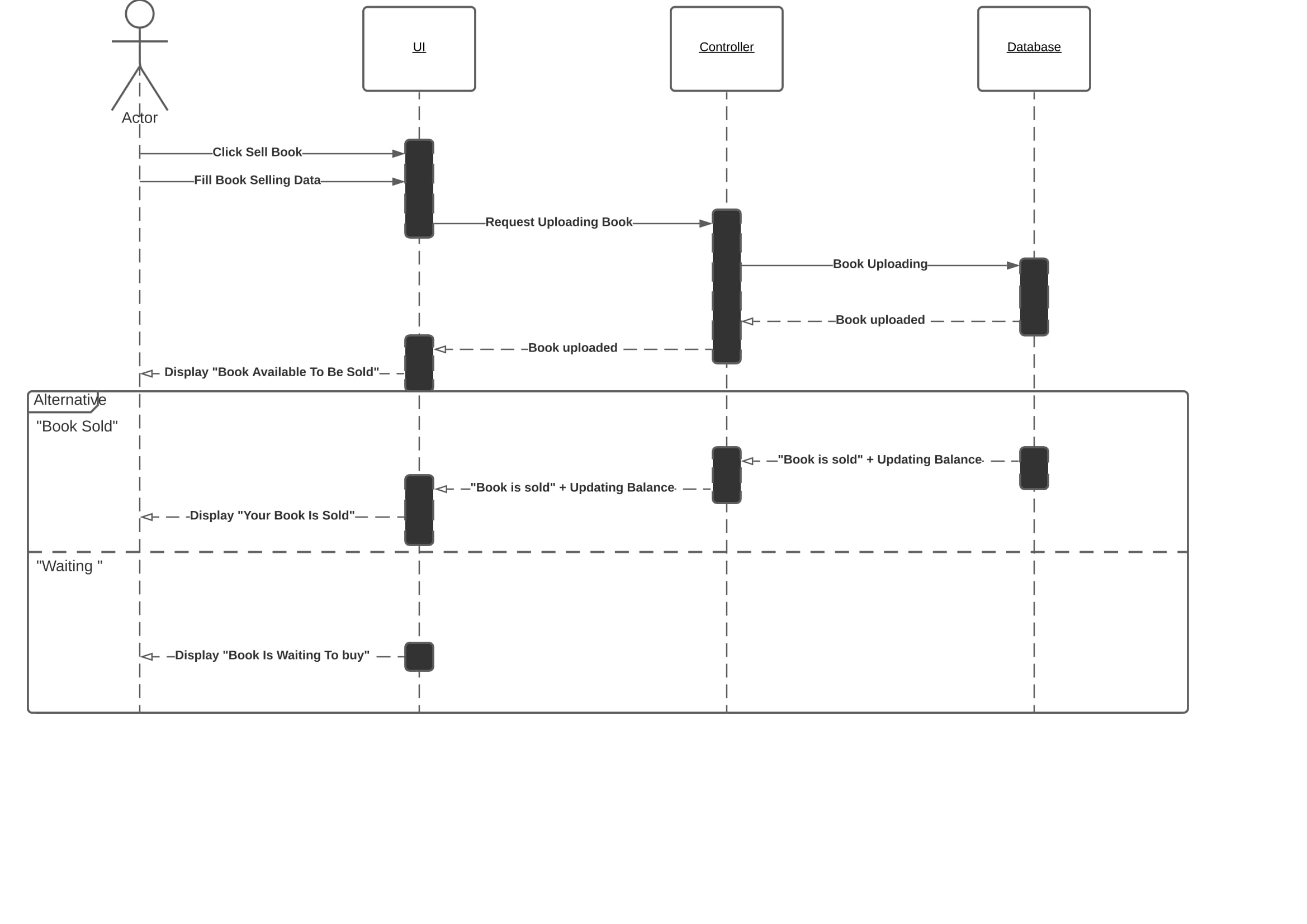
5-View All Books:

6-View All Users:

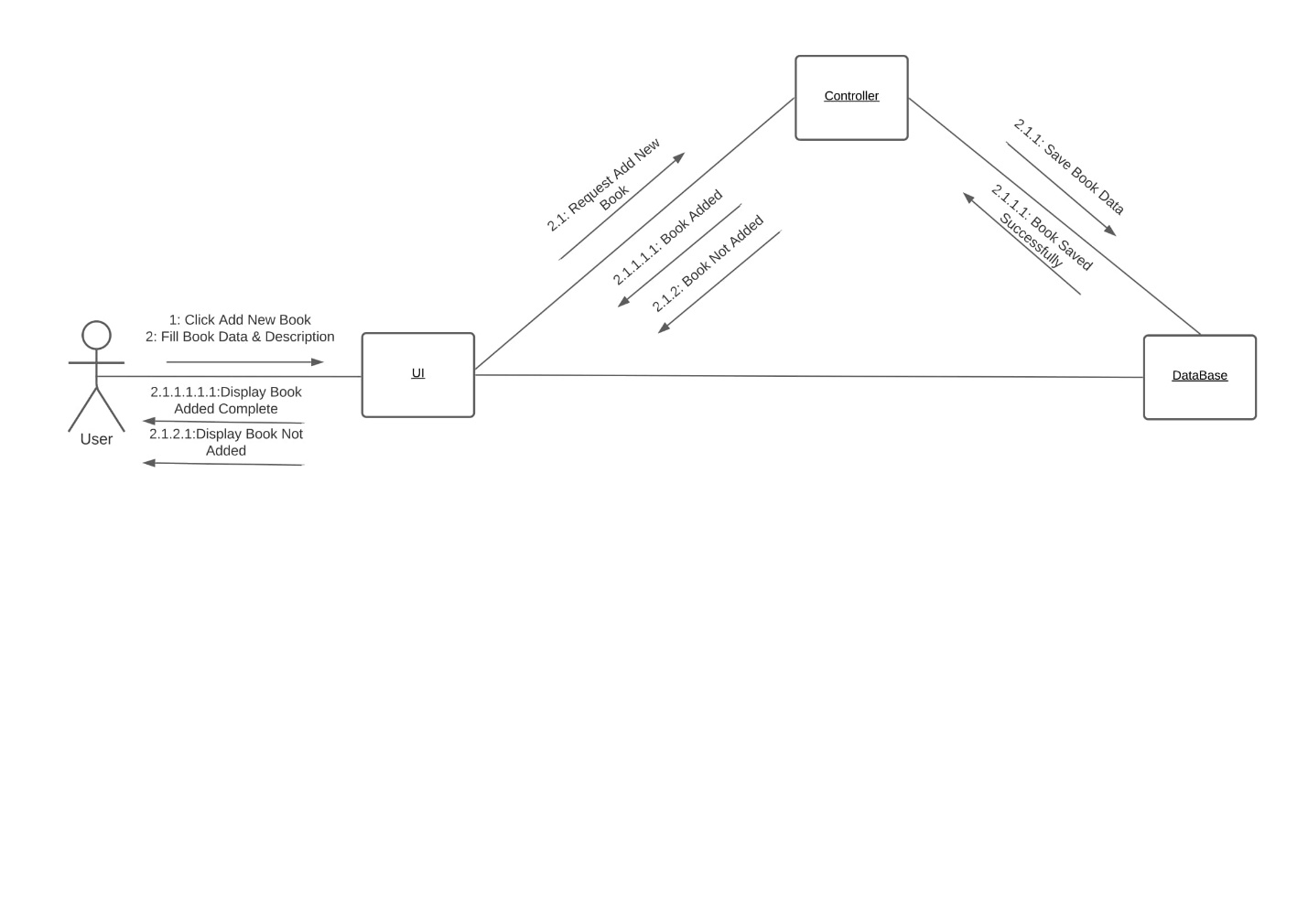
7-View Buyer:

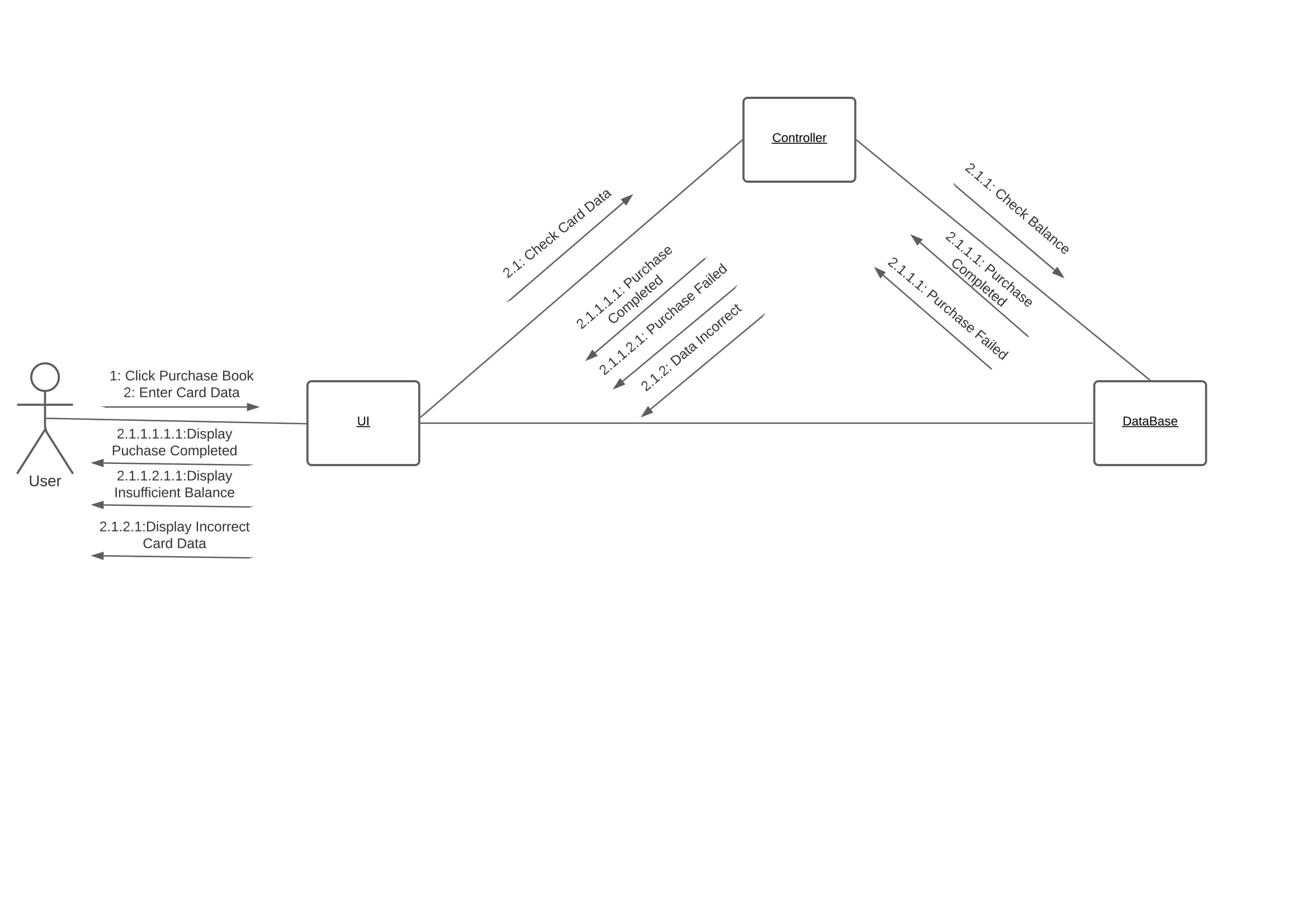
8-View Purchase History:

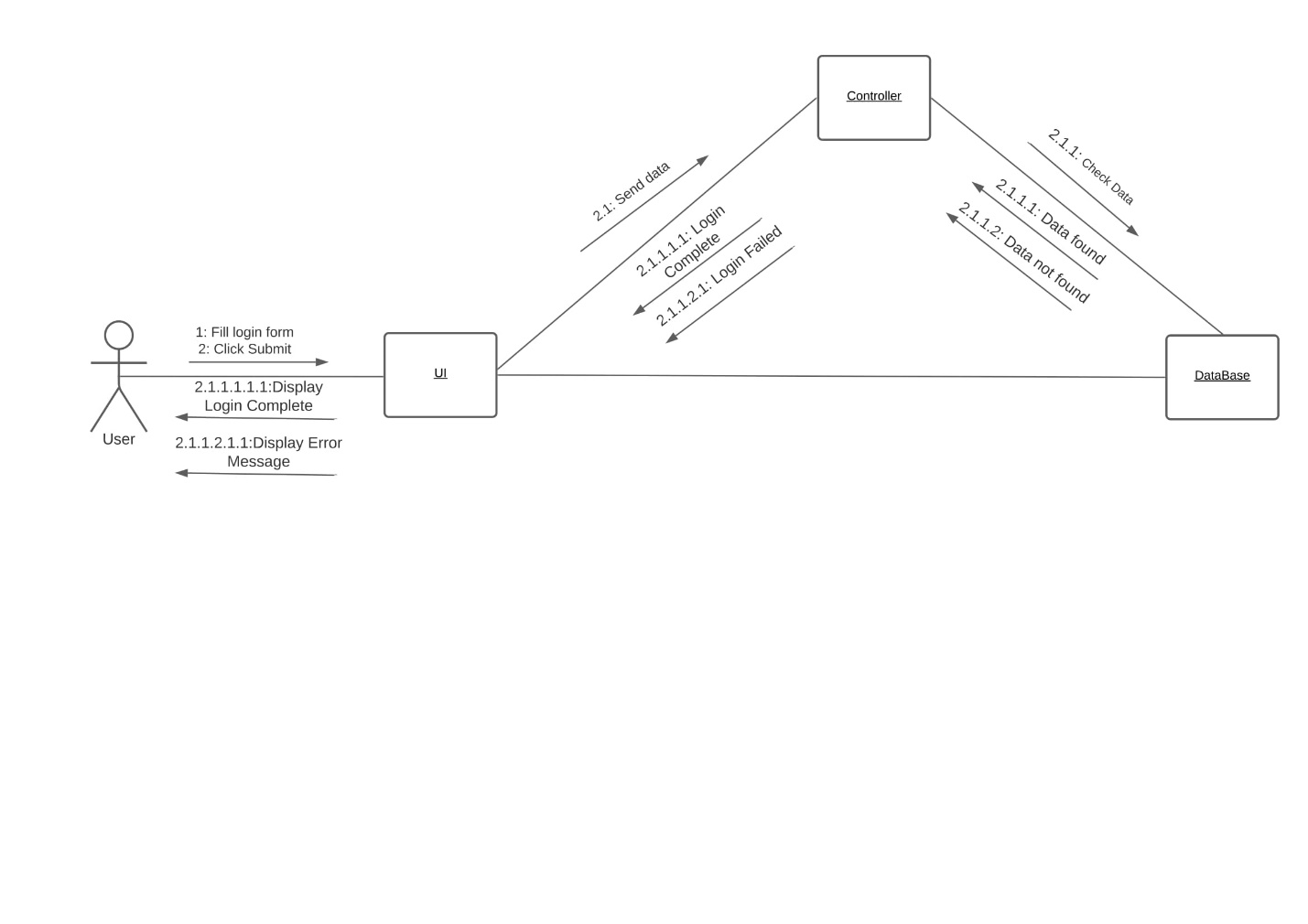
9-View Transaction:

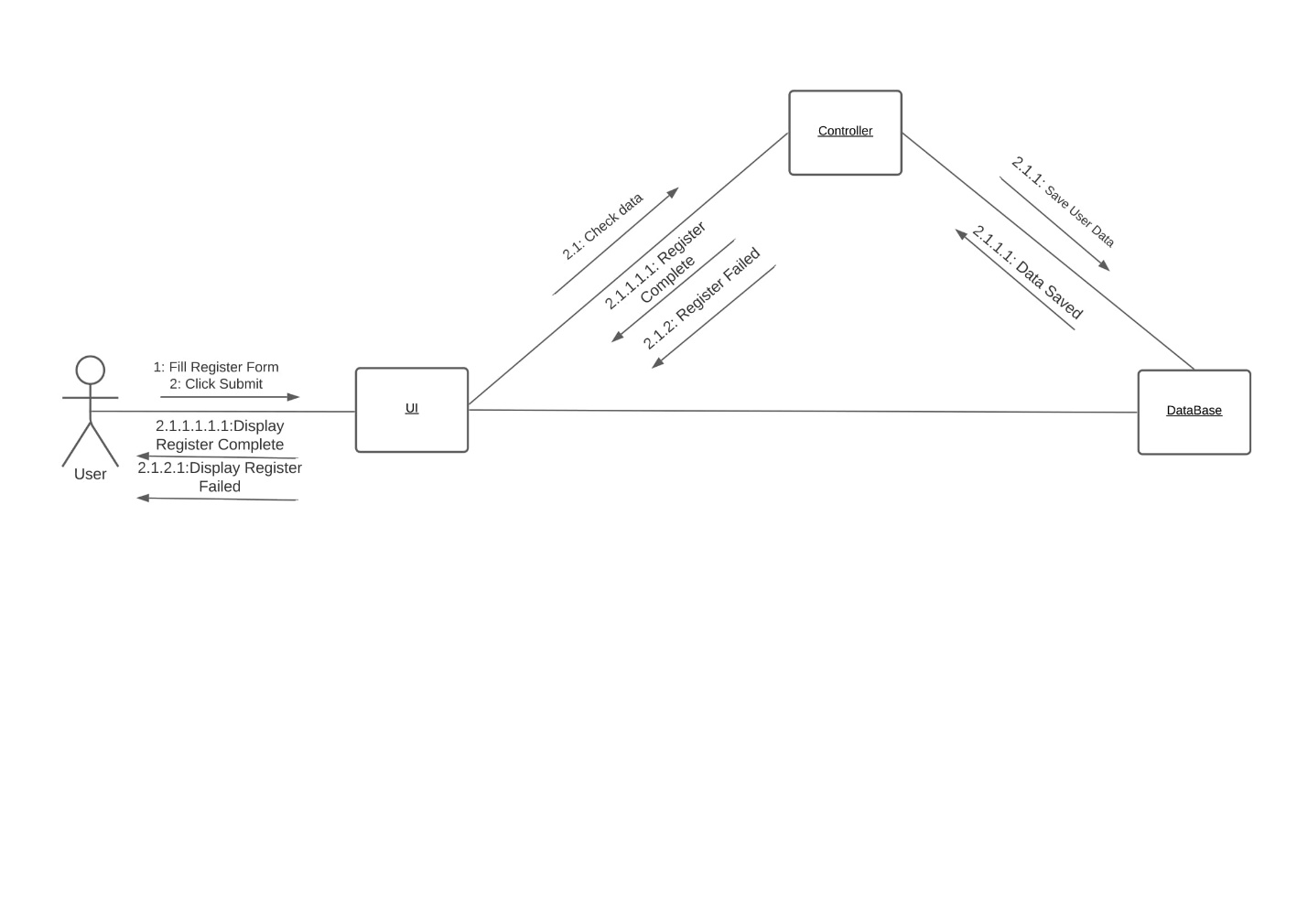
10-Sell Book:

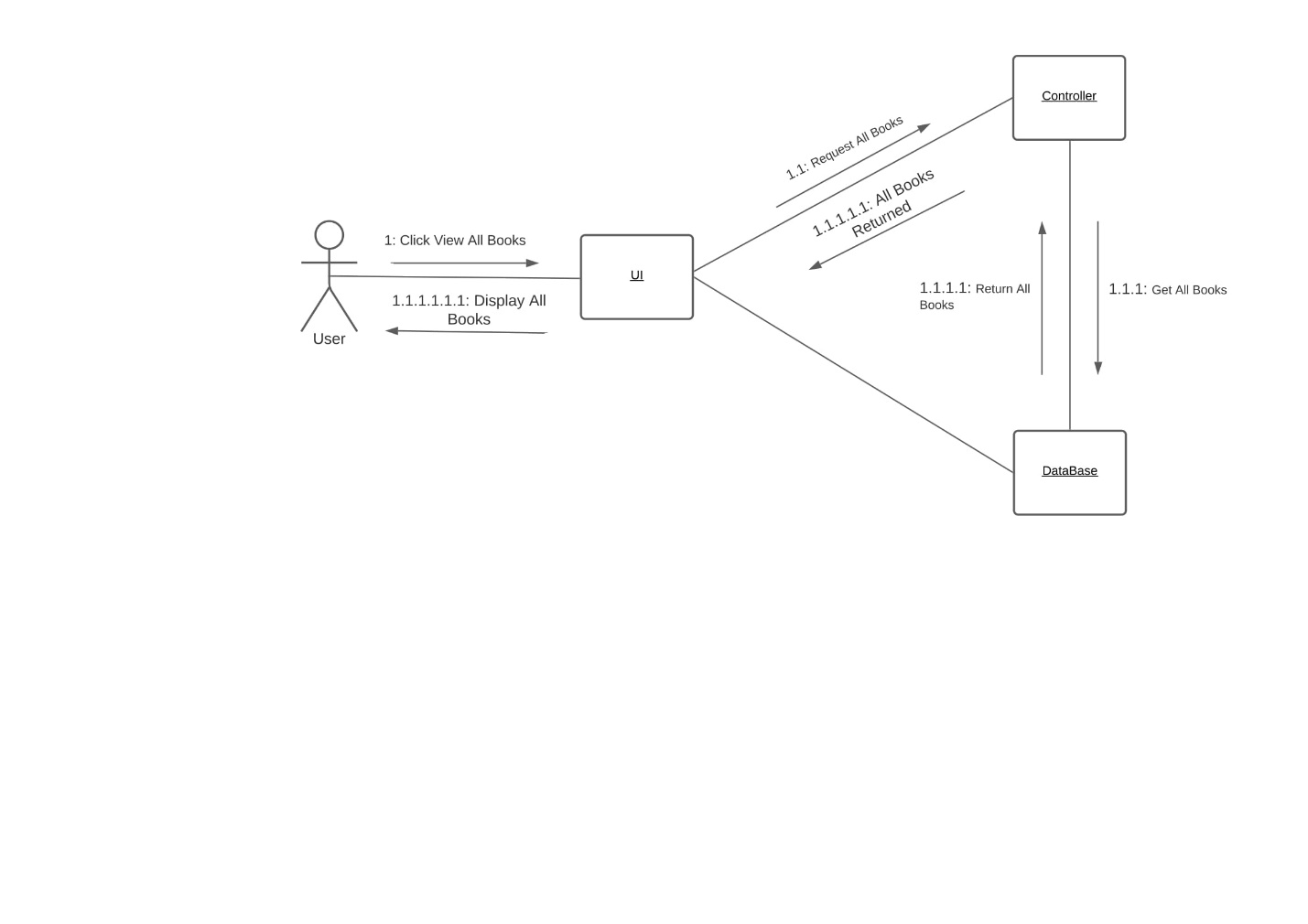
***11.Collaboration Diagrams:***

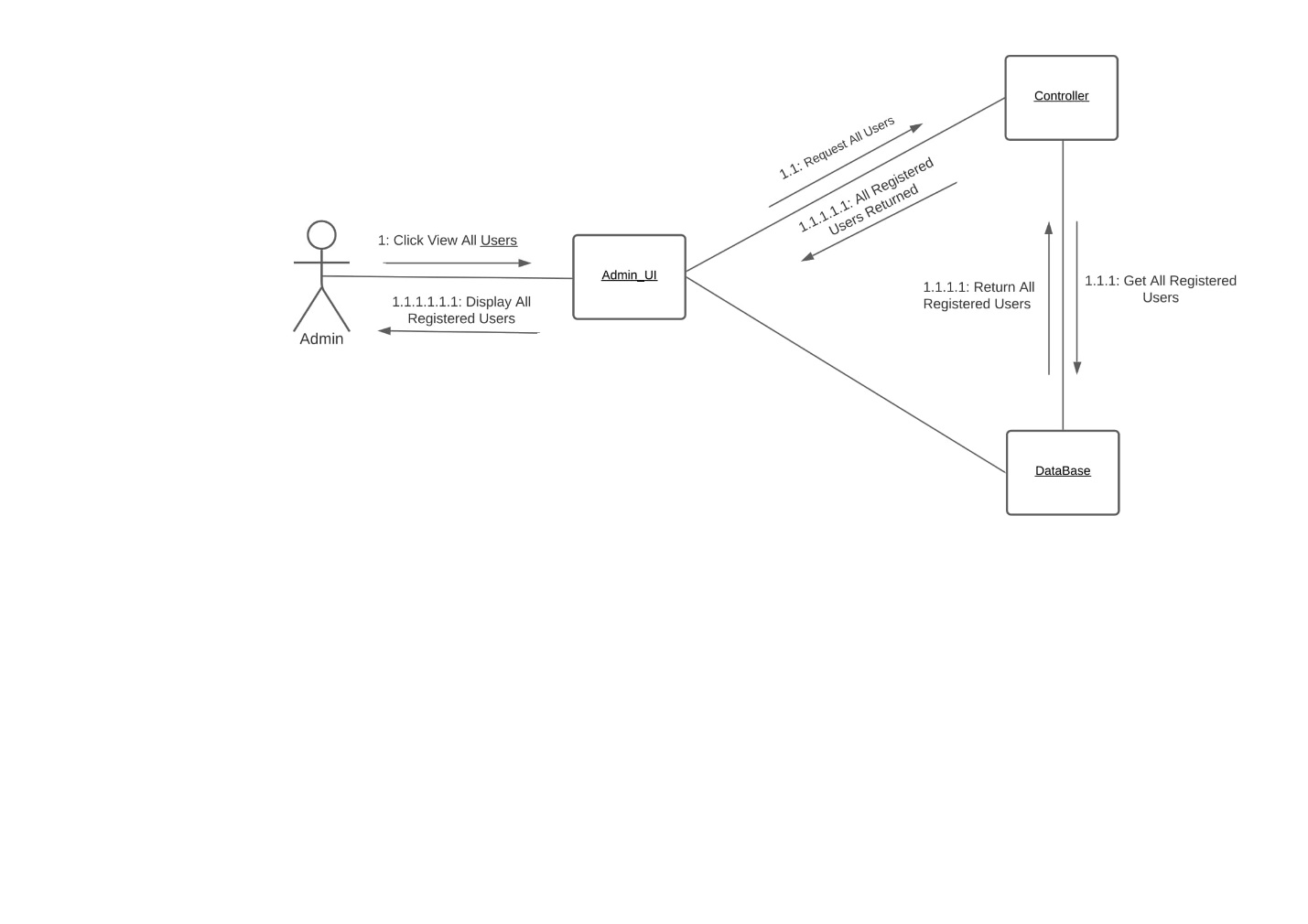
1-Add Book:

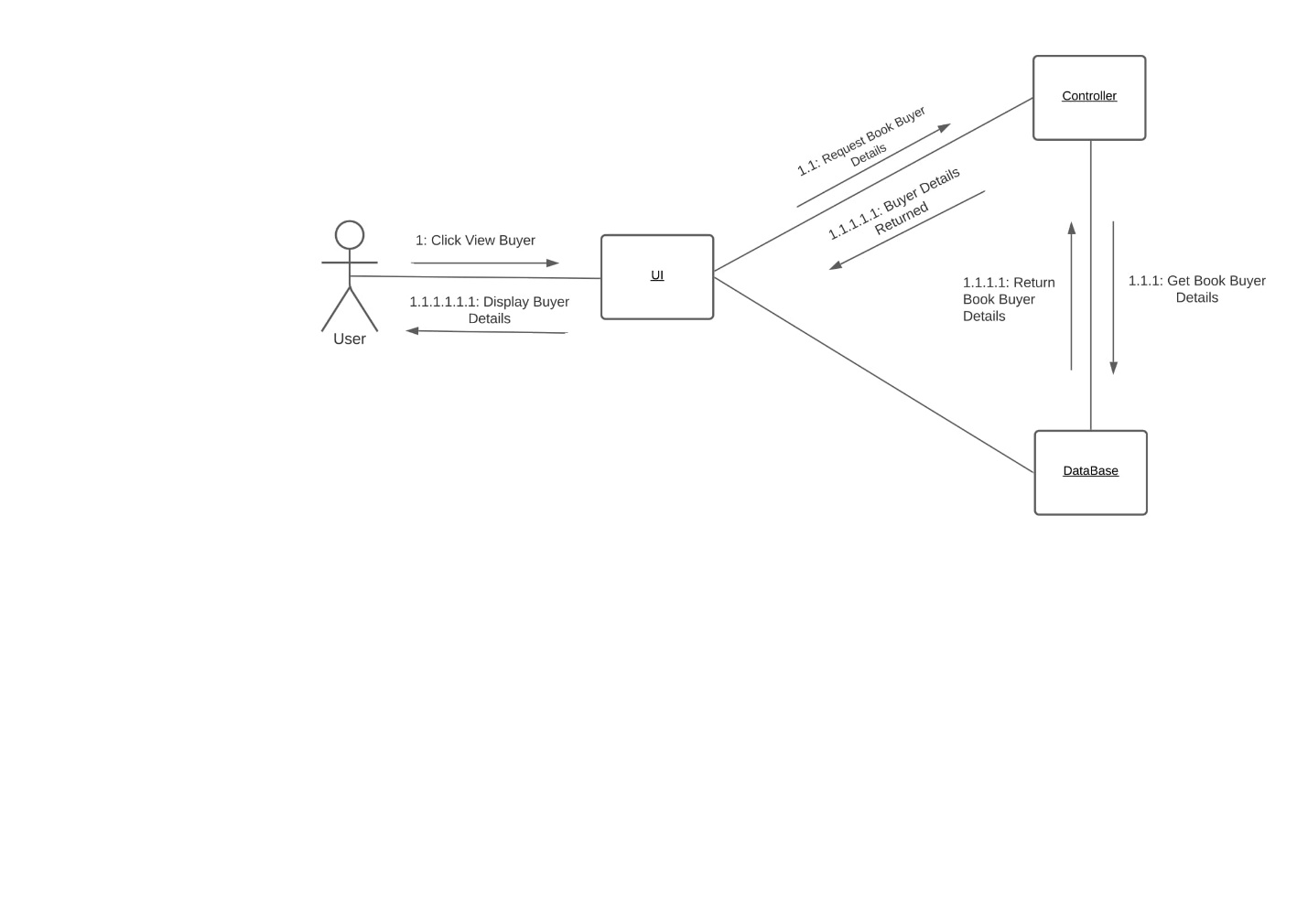
2-Buy Book:

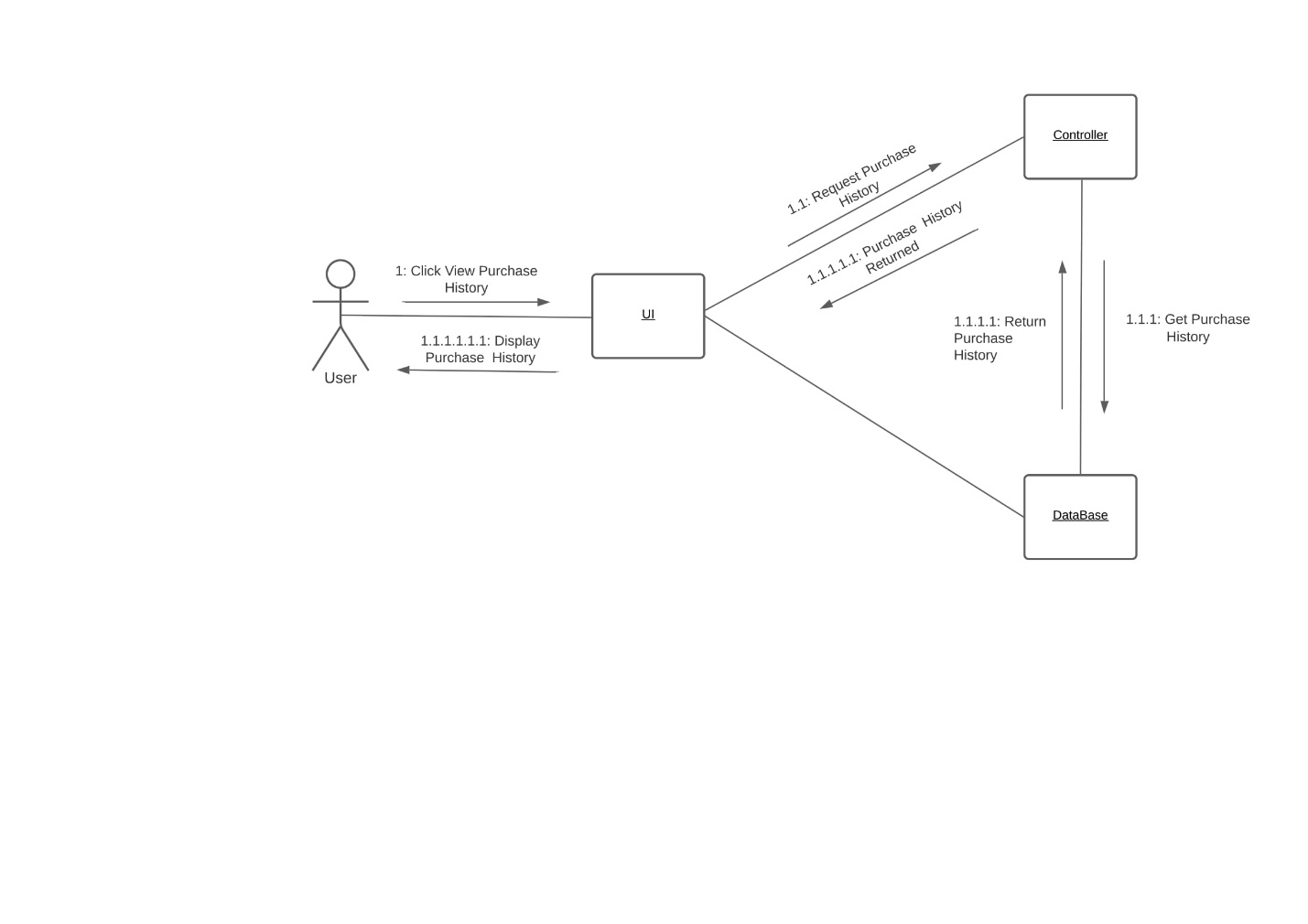
3-Login:

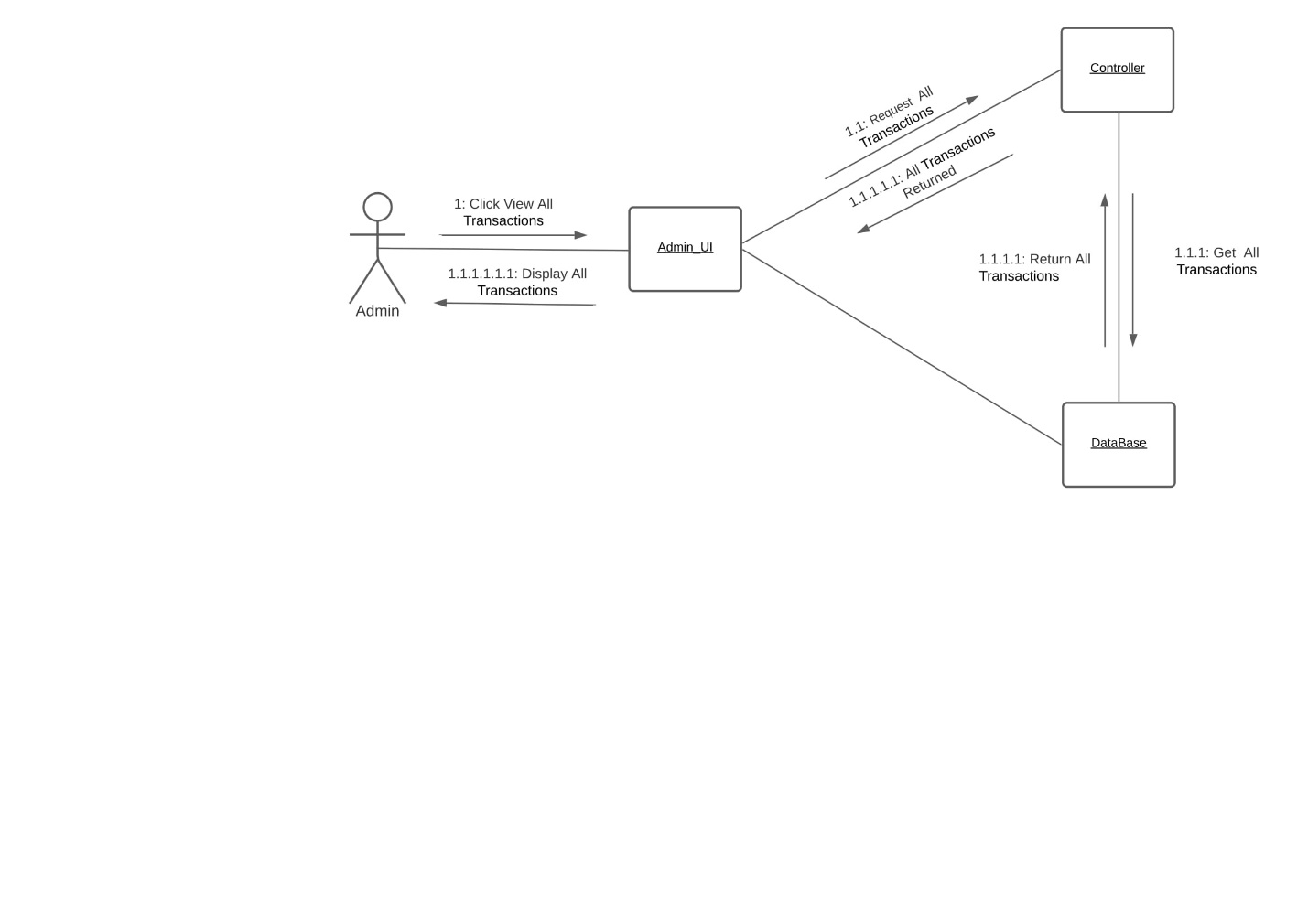
4-Register:

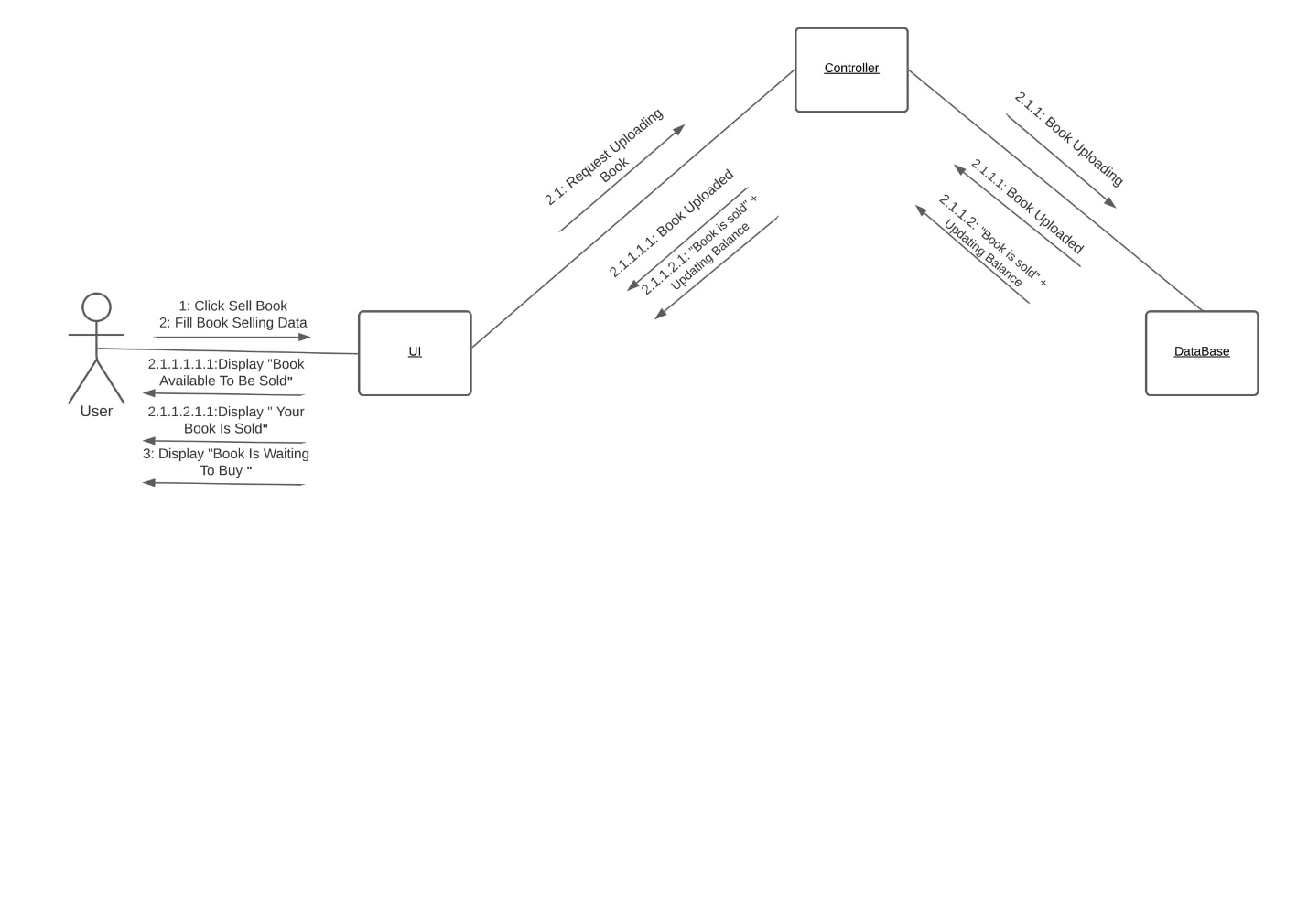
5-View All Books:

6-View All Users:

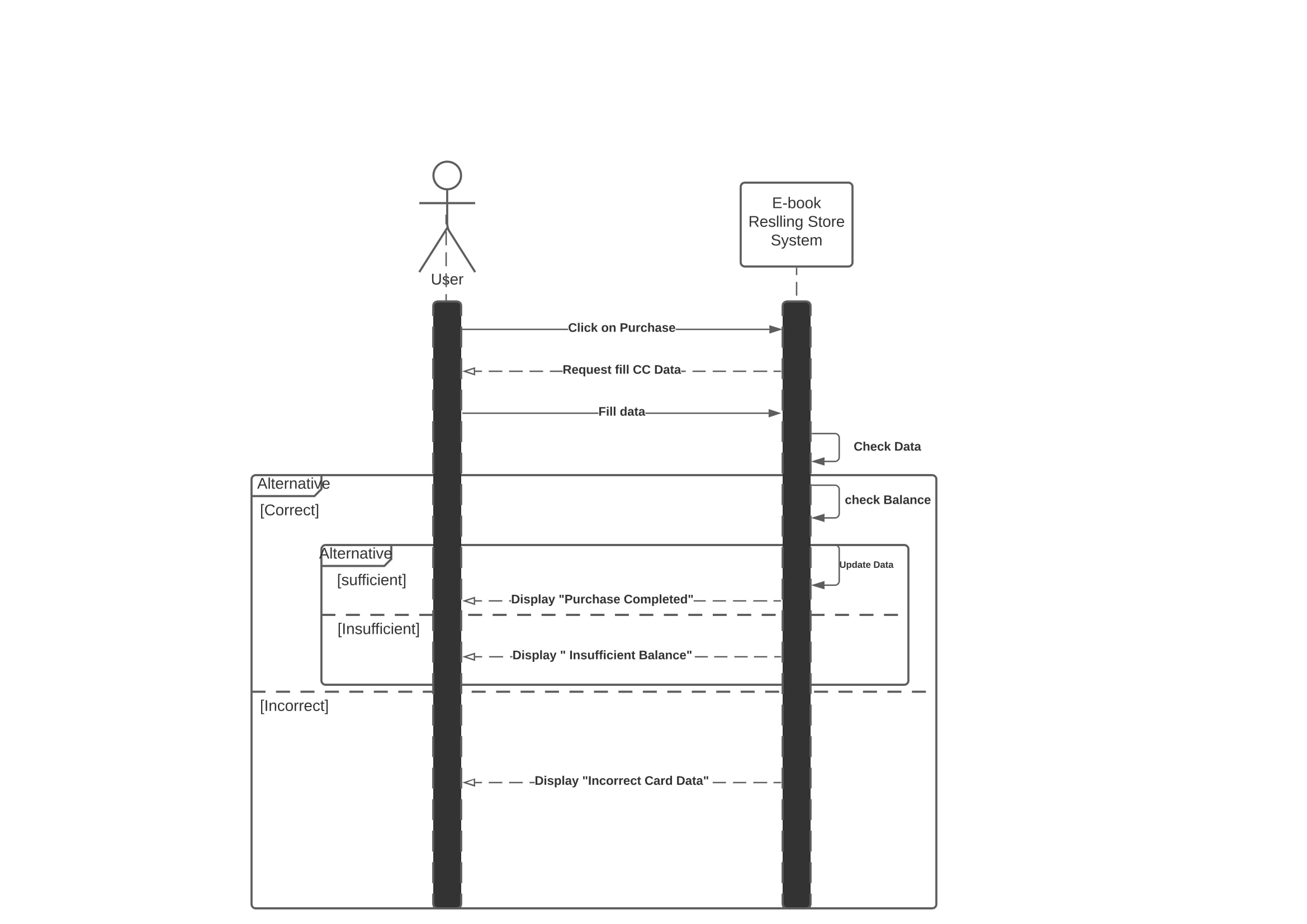
7-View Buyer:

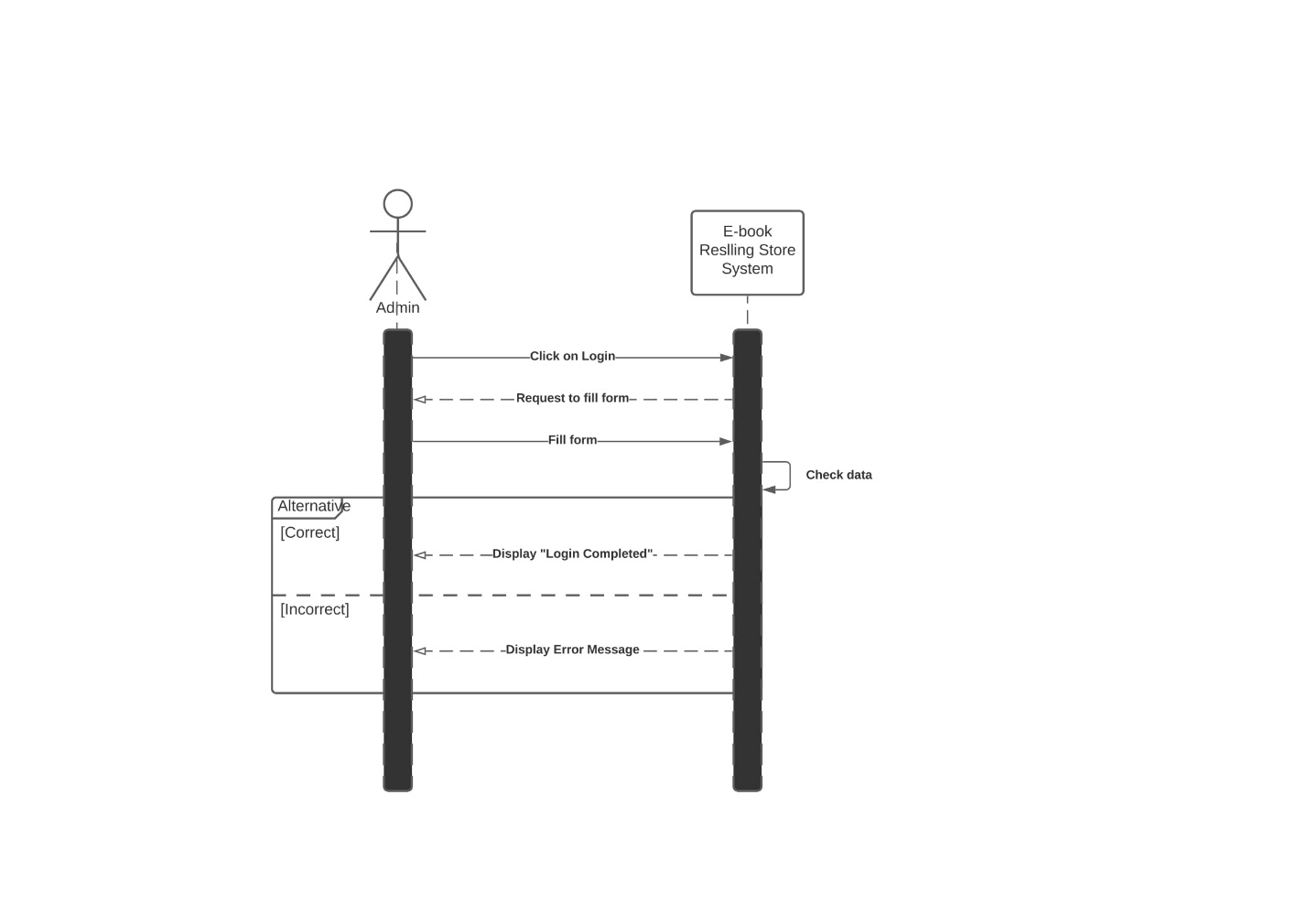
8-View Purchase History

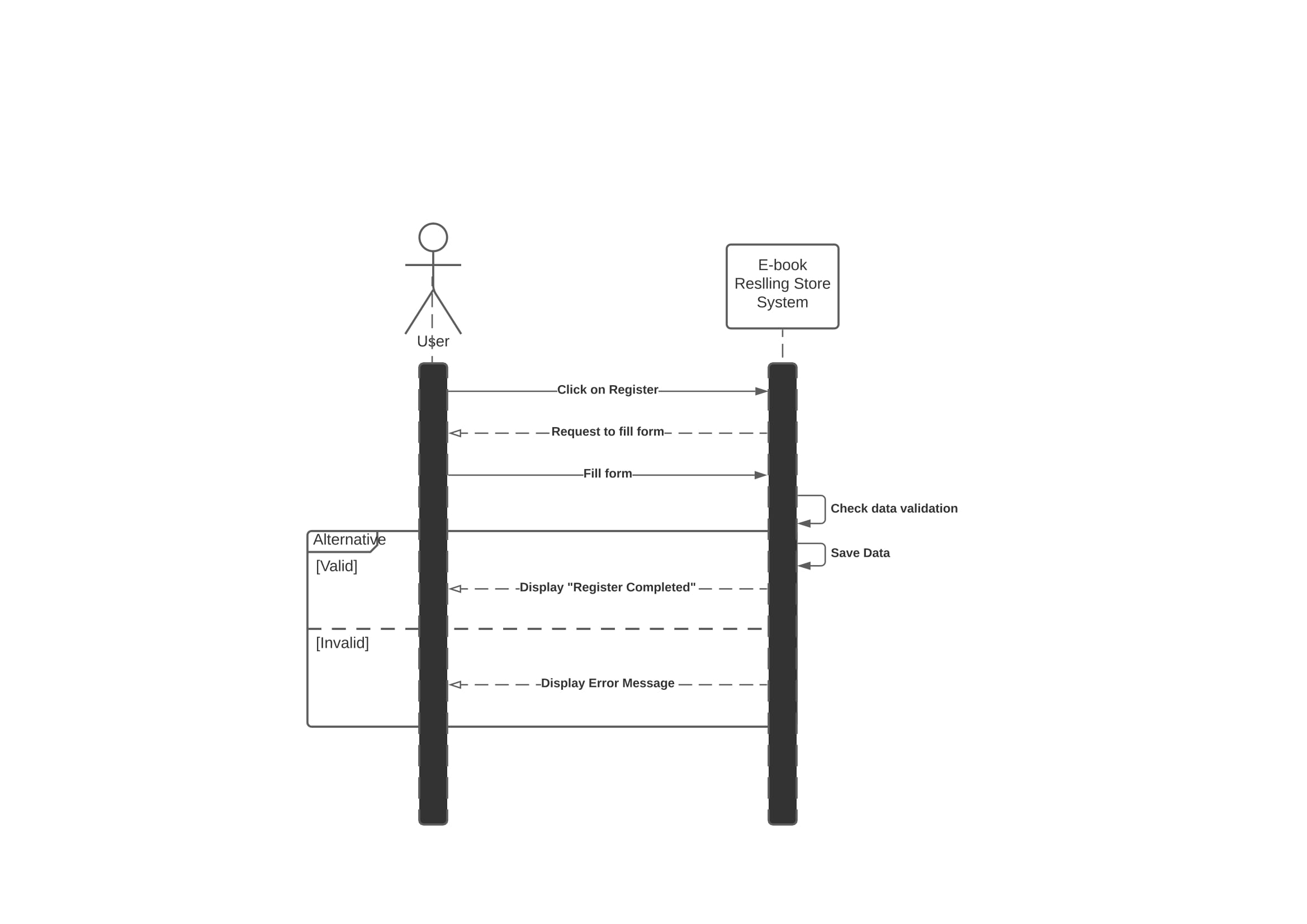
9-View Transactions:

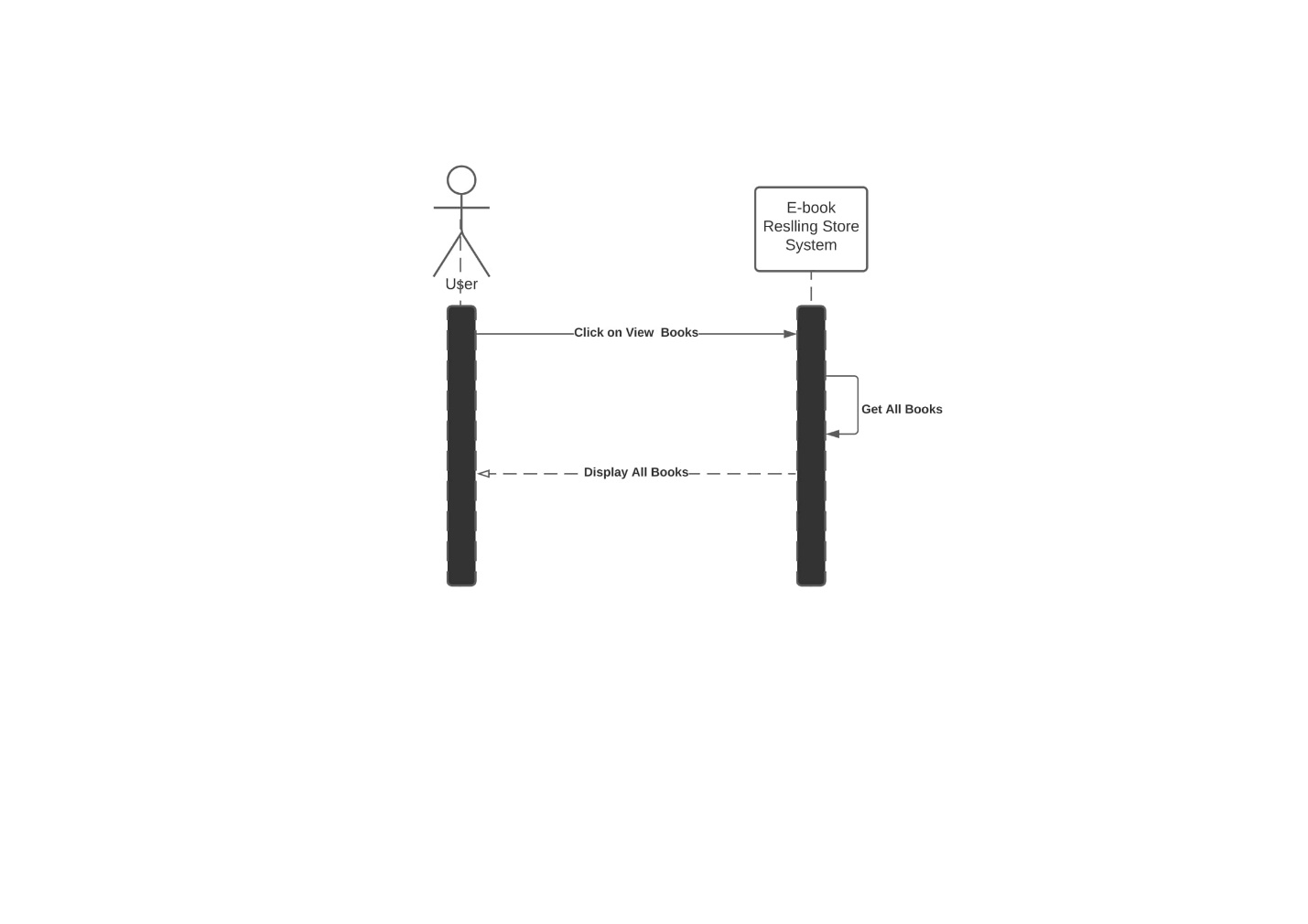
10-Sell Books:

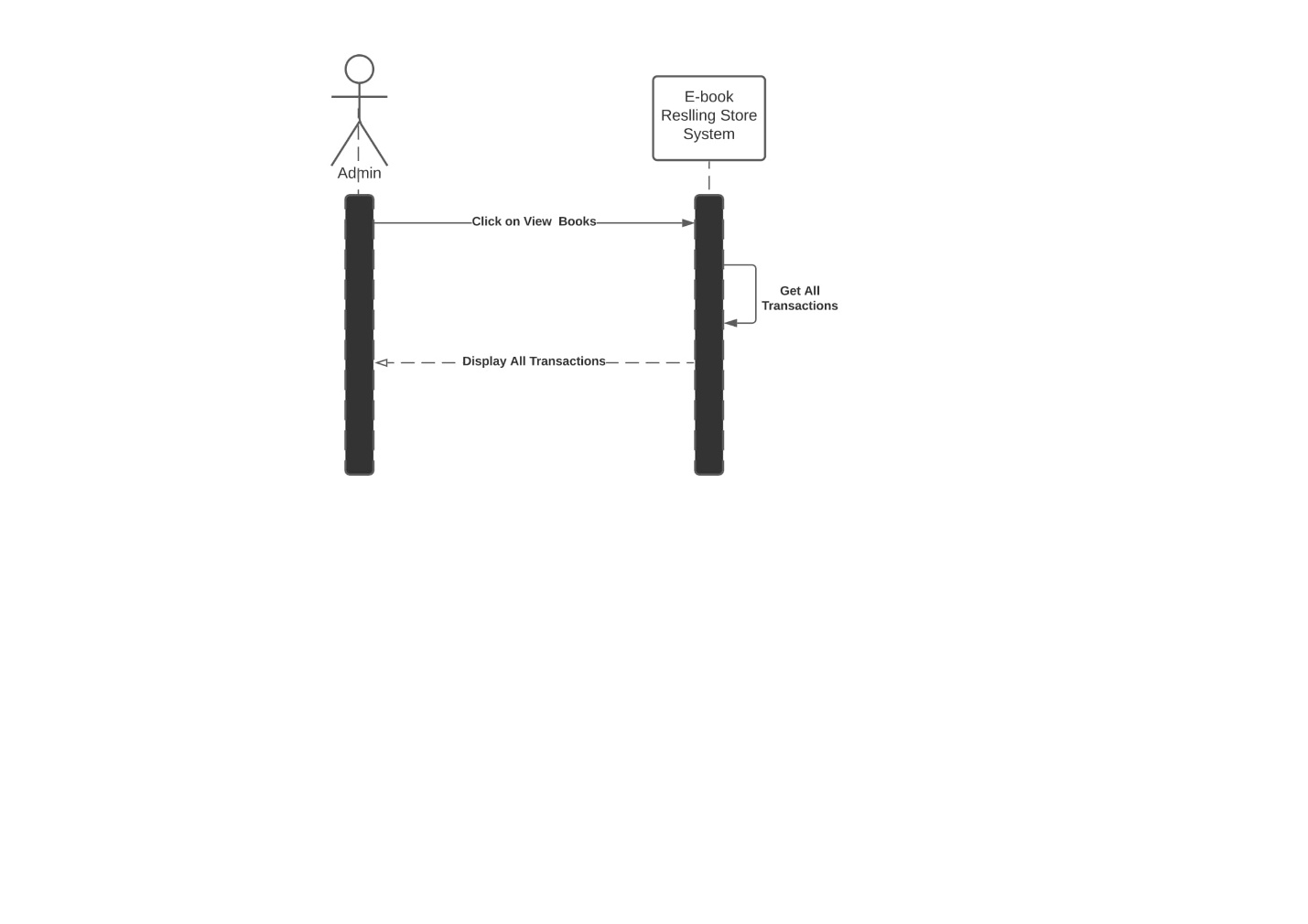
***12.System Sequence Diagram:***

1-Buy Book:

2-Login:

3-Register:

4-View Books

5-View Transactions:

***12.*** ***Package Diagram:***

Diagram

Description automatically generated

***13.*** ***System Architecture:***

Diagram

Description automatically generated