Ayad Hameed Mousa 94183

Electronic -Booking Bus Systems

1.0-INTRODUCTION:

Nowadays the internet become one of the most important sector in the world, the internet has changed the way that the people look at life and business, shopping throw the internet become commend thing and a lot of people prefer to buy throw the internet due to the easy way fined what u looking for with the ability to do it at any time and from anywhere. The internet booking for travel throw airplane bus or even taxi become in the reach of our hand in home or any other place, the online booking with give us extra details about the company ,other than that, customer suffering will rid of by easy way to save time and save money, the customer can deal easy with friendly website . no need to go to the company branch and spend money and time in road and standing in a queue to book tickets, furthermore It will help the company employees in daily work by make their work more arranged and more connected to the other company branches.

2.0-PROBLEM STATEMENT:

We wish to make the booking of a bus as far as one click from our hand, so anyone who want to travel from place to place by bus can access to this system throw the internet at anytime and wherever having access to the world web.

This system will have a large impact on the bus company by give the ability for reliably update data and the possibility to take action on trigger events and Enhance the time that was take to manage the data as well as the time that was need to retrieve the data, and making the booking more arrange between the branches and more easy to update and book the tickets, by enhance the ability to share the data and reduce the time it takes to share the data. By give a full access to the insert or update data in all the branches in the live time.

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However, the user will have an easy and efficient way of booking without the need to go to the company branch to book his travel and everyone can book his bus from his computer.

What Electronic Booking Bus System?

The bus companies at Kedah bus stations allows the customer to book a ticket from city to the other city such as Penang, Kuala Lumpur, Ipoh, etc.

If the customer need to book a bus to other city, the customer should go to the bus station and buy the ticket a period before the bus time, the company employee will connect with the other branches of the company and see if there is an empty place and write the ticket to him or her and all the process done manually.

The project it is help the company to do the booking ticket to the customers in the easier and faster way and also can save the time and money in the operation of booking. This system will allow the customers to do all the operation such as search and booking, and finally know about the special offers.

3.0-OBJECTIVES:

The aim of this project is to prepare the best way to book a ticket for customers with the easiest way the pest price can offer. The system will allow the customers to search for the most possible prices in ant where and any time. This is one of the biggest advantages of online booking because the customer will have the peace of mind if they know that their received the best price by booking from online system.

By allowing the customers to choose his seat position will allow the customer to be more satisfy. By butting the system online the booking will be available 24 hour 7 days a week and dealing with it anywhere and the customers can do directly anywhere and there is no need to go to the company branch.

The system will provide great benefit for the bus company by decrease the member of employees which is the company needed and as consequence well need to less physical space,

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less bills and less rent for office which is the company needed. They processes of information will be more quickly than use manually system. However, The systems can do the same task repeatedly without getting bored, without break time or mistakes. The system can generated a lot of kind of helpful reports for help the company to make its decisions.

4.0-SCOPE OF STUDY:

The scope of this study will cover customer services to how to booking bus ticket by using electronic booking bus system. The system is online website which allows the customer to register before Log in the system, after login the system the customer can search route and date; customer can select the route and book their tickets.

The system also decrease the company work ,which allow the staff to control the day by day operation with easy way , manager can manage the system such as add new route ,delete the route, edit it ,make the price for each one , add new bus , delete the bus ,schedule the bus to specific route ,and make the time table to the bus .the manger allow to give password with user name to each staff work in this system.

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5.0-LIST OF REQUIREMENTS

Listed below are the functional requirements and non-functional requirement of the system. In the priority column, the following short hands are used:

- M – mandatory requirements (something the system must do)
- D – desirable requirements (something the system preferably should do)
- O – optional requirements (something the system may do)

5.1. FUNCTIONAL REQUIREMENTS

No.	Requirement ID	Requirement Description	Priority
	EBBS _01	**Register Member**	
1.	EBBS _01_01	Customer must register before Log in the system.	M
2.	EBBS _01_02	Customer must fill all fields in the registration form , otherwise the system will show an error message .	D
	EBBS _02	**Log in**	
3.	EBBS _02_01	Administrator can log in to enter the system	M
4.	EBBS _02_02	Customer can log in the system to make his/her booking.	M
5.	EBBS _02_03	The user must enter the valid user name and password, otherwise the system will show an error message.	D
	EBBS _03	**Search Destination**	
6.	EBBS _03_01	Administrator can search a Destination, date , number of passengers and select the trip type (one way or return).	M
7.	EBBS _03_02	Customer can search a Destination, date, number of passengers and select the trip type (one way or return).	M
8.	EBBS _03_03	The User must fill all the searching field before press search button , otherwise the system will show an error message .	D
	EBBS _04	**Booking Ticket**	
9.	EBBS _04_01	Administrator and Customer can select the coach.	M
10.	EBBS _04_02	Administrator and Customer can select a bus seat.	M
11.	EBBS _04_03	Administrator and customer can confirm booking.	M
	EBBS _05	**Print Receipt**	
12.	EBBS _05_01	User can print ticket	O

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	EBBS _06	Manage EBBS	
13.	EBBS _06_01	Manager can create a new route (include all coach details).	M
14.	EBBS _06_02	Manager can Edit the route (include all coach details).	M
15	EBBS _06_03	Manager can Delete the coach (include all coach details).	M
16.	EBBS _06_04	Manager can search route .	M

5.2.NON- FUNCTIONAL REQUIREMENTS

No.	Requirement ID	Requirement Description	Priority
	EBBS _07	**Reliability issues**	
17.	EBBS_07_01	If the system should crash no more than once per 24 hours.	M
18.	EBBS_07_02	If the system has been crashed, it should not be more than 20 Minutes	M
19.	EBBS_07_03	If the systems has been crashed, it should behave perfectly normal when reloaded again	M
	EBBS _8	**Usability issues**	
20.	EBBS _8_01	That means we should make sure that the system stay working smoothly without any interruption	M
	EBBS _9	**Security issues**	
21.	EBBS _9_01	Only Administrator will be able to enter the system to make maintenance.	M
	EBBS _10	**Performance**	
22.	EBBS _10_01	The system must have a high speed of manipulation data and reply to the user request	M

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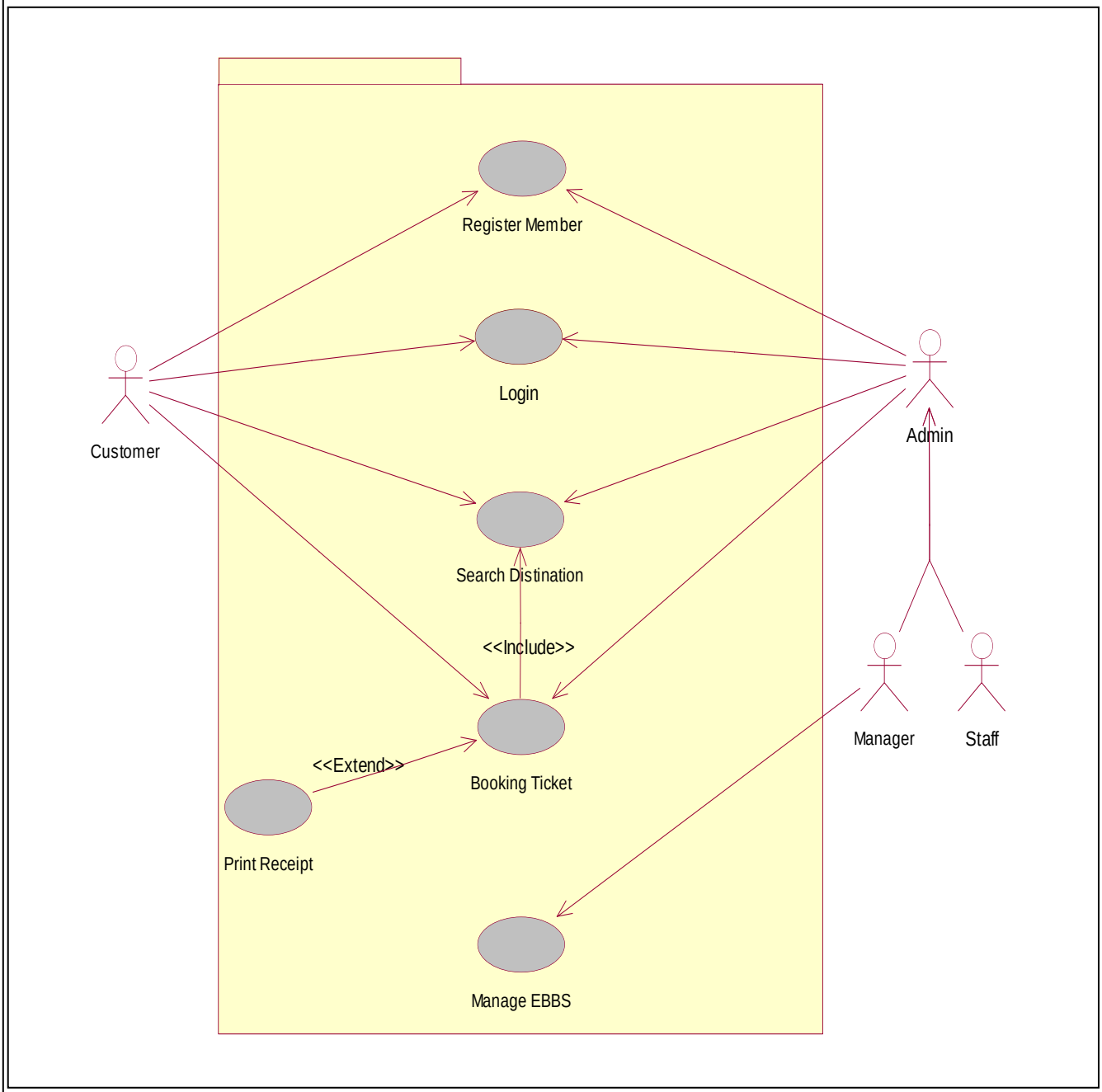
6.0-USE CASE DIAGRAM FOR EBBS



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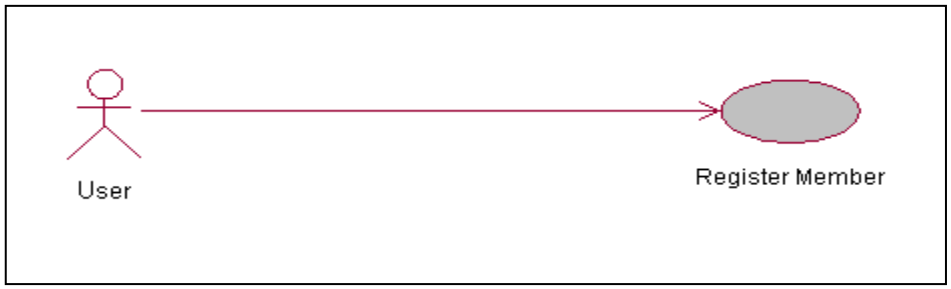
7.0-USE CASE: REGISTER MEMBER (EBBS_01)



7.1 BREIF DESCRIPTION (EBBS_01_01)

This use case is initiated by the user. This use case will enable the user to register by filling the registration form, if the information is approved by the system; the user will informed that he/she is registered.

7.2 PRE-CONDITIONS (EBBS_01_02)

- Not applicable.

7.3 CHARACTERISTIC OF ACTIVATION (EBBS_01_03)

- Event-driven (on user's choice).

7.4 FLOW OF EVENTS (EBBS_01_04)

7.4.1 BASIC FLOW (EBBS_01_04_01)

- The use case begins when the user enter main page and press " Register " button.
- The system will display registration form.
- The user will fill registration form with the correct details which include (User ID, Password, Name, E-mail, Contact no. , Address, Identification type, Identification no.).
- User press "submit ''button.
- The system will verify registration information with the database [E-1: incorrect information].
- System retrieve ID & E-mail from database.
- Systems will verify ID & E-mail [E-2: New ID already exists].
- System creates a new account.
- System will display main page with successful message.

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7.4.2 ALTERNATIVE FLOW (EBBS_01_04_02)

- Not applicable.

7.4.3 EXCEPTIONAL FLOW (EBBS_01_04_03)

[E-1: Incorrect Information]

- The system will show error message " please fill all the information fields"
- The system will display the registration page.

[E-2: already registered]

- The system will show the following error message "The user already registered"
- The system will display the registration page.

7.5 POST-CONDITIONS (EBBS_01_05)

- The system will update the database.

7.6 RULE(S) (EBBS_01_06)

- Not applicable.

7.7 CONSTRAINT(S) (EBBS_01_07)

- Not applicable

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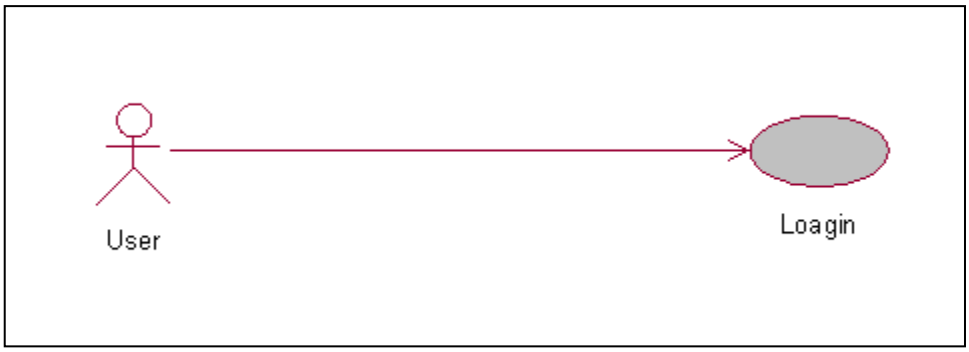
8.0-USE CASE: LOGIN (EBBS_02)



8.1 BRIEF DESCRIPTION (EBBS_02_01)

This use case is initiated by user; this use case will enable the user to login into the system.

8.2 PRE-CONDITIONS (EBBS_02_02)

- The user must registered before login the system (the user has user name and password).

8.3 CHARACTERISTIC OF ACTIVATION (EBBS_02_03)

- Event driven (on user's choice).

8.4 FLOW OF EVENTS (EBBS_02_04)

8.4.1BASIC FLOW (EBBS_02_02_01)

- This use case begin when the user enter the main page and press (login here) button.
- The system will display login form.
- The user enters the ID and Password and press "login" button. [A-1: Forget ID or Password]
- The system will retrieve the ID & Password from database.
- The system will verify ID & Password [E-1: wrong ID & Password].
- System will display main page.

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8.4.2 ALTERNATIVE FLOW (EBBS_02_02_02)

[A-1: Forget Id & Password]

- Press “forget password “ button.
- The system show password recovery page.
- The user should enter his /her e-mail.
- The user will press “retrieve password “button.
- The system retrieve user E-mail from database.
- The system will verify user E-mail(E-1 :A-1 :E-mail not exist).
- The system will send ID & Password by e-mail and display retrieve successful page.

8.4.3 EXCEPTIONAL FLOW (EBBS_02_02_03)

[E-1:A-1:E-Mail Not Exist]

- The system will show error message “E-mail not exist “and display the main page.

8.5 POST-CONDITIONS (EBBS_02_05)

- The user Login to the system.

8.6 RULE(S) (EBBS_02_06)

- Not applicable.

8.7 CONSTRAINT(S) (EBBS_02_07)

- The user must enter the correct user name and password.

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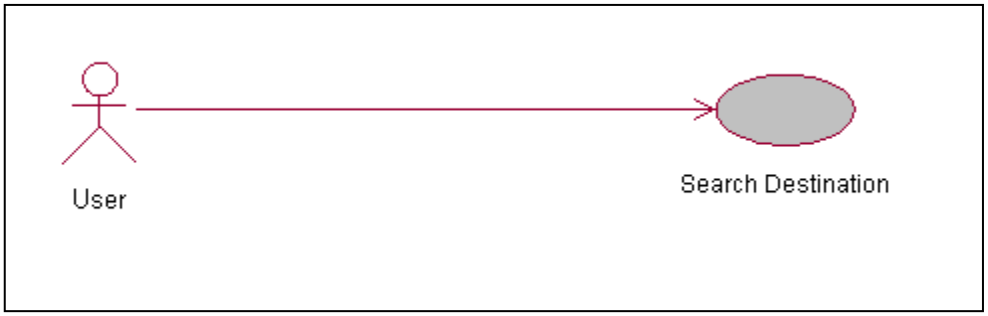
9 .0- USE CASE: SEARCH DESTINATION (EBBS_03)



9.1 BRIEF DESCRIPTION (EBBS_03_01)

This use case is initiated by the user; this use case will enable the user to search his /her destination.

9.2 PRE-CONDITIONS (EBBS_03_02)

- Not applicable.

9.3 CHARACTERISTIC OF ACTIVATION (EBBS_03_03)

- Events driven (on user's choice)

9.4 FLOW OF EVENTS (EBBS_03_04)

9.4.1 BASIC FLOW (EBBS_03_04_01)

- The use case begins when the user enter main page and Selects route details.
- The user will press "search" button.
- The system will retrieve route details from database.
- The system will verify route availability [E-1: The tripe is not available].
- The system will display main page and show route list.

9.4.2 ALTERNATIVE FLOW (EBBS_03_04_02)

- Not applicable.

9.4.3 EXCEPTIONAL FLOW (EBBS_03_04_03)

E-1: The tripe is not available

- The system will display error message "route is not available "and Display search page.

9.5 POST-CONDITIONS (EBBS_03_05)

- Show user route list.

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9.6 RULE(S) (EBBS_03_06)

- Not applicable.

9.7 CONSTRAINT(S) (EBBS_03_07)

- Not applicable.

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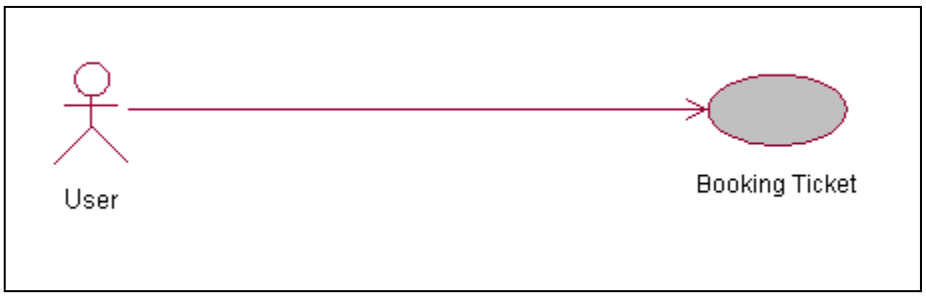
10.0- USE CASE: BOOKING TICKET (EBBS_04)



10.1 BRIEF DESCRIPTION (EBBS_04_01)

This use case is initiated by the user. This use case will enable the user to booking ticket by select the coach , seat and confirm the booking.

10.2 PRE-CONDITIONS (EBBS_04_02)

- The user must be verified that he/she already login the system.
- The user must do search destination.

10.3 CHARACTERISTIC OF ACTIVATION (EBBS_04_03)

- Event-driven (on user's choice).

10.4 FLOW OF EVENTS (EBBS_04_04)

10.4.1 BASIC FLOW (EBBS_04_04_01)

- The user press "book" button.
- The system will retrieve available seats for the selected route.
- The system will display board of available seats form.
- The user will select his/her seat.
- The user will press "next "button [A-1: Return back].
- The system will book the selected seat for 5 min.
- The system will display payment page.
- The user will select payment method (visa card, master card, etc).
- The user will press "proceed to payment" button.

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- The system will verify seat availability[E-1: The seat booked by other or exceed 5 min] .

.

- The system will display payment mode page .
- The user will enter credit card details (card number, Expiry date, cvv2).
- The user press "submit" button [A-2: cancel].
- The system will request credit card details from the bank.
- The bank will replay.
- The system will check bank decision about credit info [E-2: credit info. Incorrect].
- The system will ask deduct ticket amount ,
- The bank will reply .
- The system will check bank decision about credit balance. [E-3: credit balance insufficient].

- The system will display ticket details page.

10.4.2 ALTERNATIVE FLOW(S) (EBBS_04_04_02)

[**A-1: Return back]**

- The user press "Return back "button.
- The system will display previous page.

[A-2: Cancel]

- The user will press "cancel" button.
- The system will display the main page.

10.4.3 EXCEPTIONAL FLOW (EBBS_04_04_03)

[**E-1: The Seat Booked By Other or Exceed 5 Min]**

- The system will show seat booked or exceed time error message and display booking page.

[**E-2: credit info. Incorrect]**

- The system will show incorrect error message and display booking page.

[**E-3: credit balance insufficient]**

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- The system will show insufficient credit error message and display booking page .

10.5 POST-CONDITIONS (EBBS_04_05)

- The system will update the database.

10.6 RULE(S) (EBBS_04_06)

- Not applicable.

10.7 CONSTRAINT(S) (EBBS_04_07)

- Not applicable.

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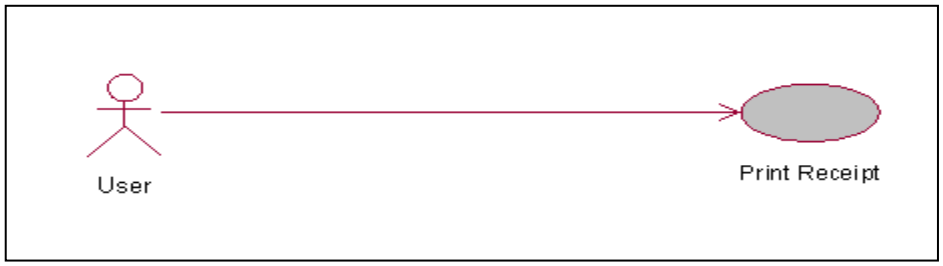
11.0- USE CASE: PRINT RECEIPT(EBBS_05)



11.1 BRIEF DESCRIPTION(EBBS_05_01)

This use case is initiated by EBBS system. This use case will enable EBBS system to print out receipt, after user confirms his\her booking ticket. This receipt will display trip details which include (trip type, date, coach no. and seat no.).

11.2 PRE-CONDITIONS (EBBS_05_02):

- The user must be done the final confirmation to the booking process.

11.3 CHARACTERISTIC OF ACTIVATION (EBBS_05_03)

- Event-driven (on system's process).

11.4 FLOW OF EVENTS (EBBS_05_04)

11.4.1 BASIC FLOW (04_01)

- User press "Print receipt .
- The system will retrieve print receipt .
- The system will display print receipt .
- The system will print receipt.

11.5 POST-CONDITIONS (EBBS_05_05)

- The voter manages to print.

11.6 RULE(S) (EBBS_05_06)

- Not applicable.

11.7 CONSTRAINT(S) (EBBS_05_07)

- Not applicable.

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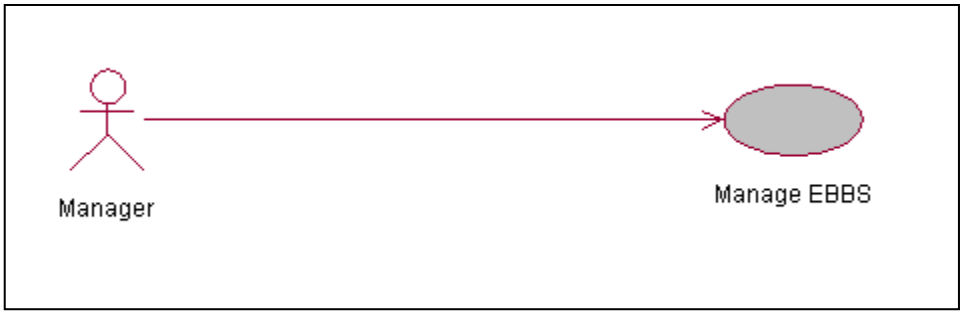
12.0- USE CASE: Manage EBBS (EBBS_06)



12.1 BRIEF DESCRIPTION (EBBS_06_01)

- This use case is initiated by Manager to manage the system, this use case will enable the manager to create a new route, delete the route, Edit the route, and Search route.

12.2 PRE-CONDITIONS (EBBS_06_02)

- The Manger already login the system.

12.3 CHARACTERISTIC OF ACTIVATION (EBBS_06_03)

- Event Driven (on user's choice).

12.4 6.4. FLOW OF EVENTS (EBBS_06_04)

12.4.1 BASIC FLOW (EBBS_06_04_01)

- This use case begin when the manager press "manage EBBS" button.
- The system will retrieve all available routes information.
- The system will display all the routes in manage page.
- The manager will press create route button .[A-1 :Search] [A-2 : Edit] [A-3 : Delete][A-4 : Back]
- The system will display create route form.
- The manager will fill the route information.
- The manager will press "Add" button. [A-5: Cancel].
- The system will retrieve the route information.

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- The system will verify duplicate route.
- The system will update the data base[E-1 :The information are duplicate or not complete].
- The system will create a new route.
- The system will show create completing.

12.4.2 ALTERNATIVE FLOW (EBBS_06_04_02)

[A-1: Search]

- The manager press "search "button.
- The system will display search form.
- The manger will fill the route information (destination From, To, Date, Time).
- The manager will press "ok" button. [A-5: Cancel].
- The system will retrieve route information.
- The system will verify the route information.
- The system will display all the available routes in this date and time .[E2: the information are wrong or not completed].

[A-2: Delete]

- The manager will select a specific route from the list.
- The manager will press "delete route" button.
- The system will display a message Are you sure ?(y/n) .
- The manager will press "OK "button. [A5 : Cancel].
- The system will delete the specific destination.
- The system will update the data base.

[A-3: Edit]

- The manager will select a specific route from the list.
- The manager will press "Edit" button.
- The system will display Edit route form.
- The manager will edit the route information.
- The manager will press "OK "button. [A5: Cancel].
- The system will retrieve the route information.
- The system will verify duplicate route.[E-3 :The information are duplicate or not complete]

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- The system will edit and update the data base .
- The system will show a massage edit completing.

[A-4: Back]

- The manager will press “Back” button.
- The system will return back to the previous page.

[A-5: Cancel]

- The manager will press “Cancel” button.
- The system will stop the process.
- The system will return back to manage EBBS page.

12.4.3 EXCEPTIONAL FLOW (EBBS_06_04_03)

[E-1: The information is duplicate or not complete]

- The system will show the information is duplicate or not completed message.
- The system will stop create route process.
- The system will return back to manage EBBS page.

[E2: the information is wrong or not completed]

- The system will show the information is wrong or not completed message.
- The system will stop search route process.
- The system will return back to manage EBBS page.

[E3: the information is duplicate or not complete]

- The system will show The information are duplicate or not complete message .
- The system will stop Edit route process.
- The system will return back to manage EBBS page.

12.5 POST-CONDITIONS (EBBS_06_05)

- The system will update the database.

12.6 RULE(S) (EBBS_06_06):

- Not applicable.

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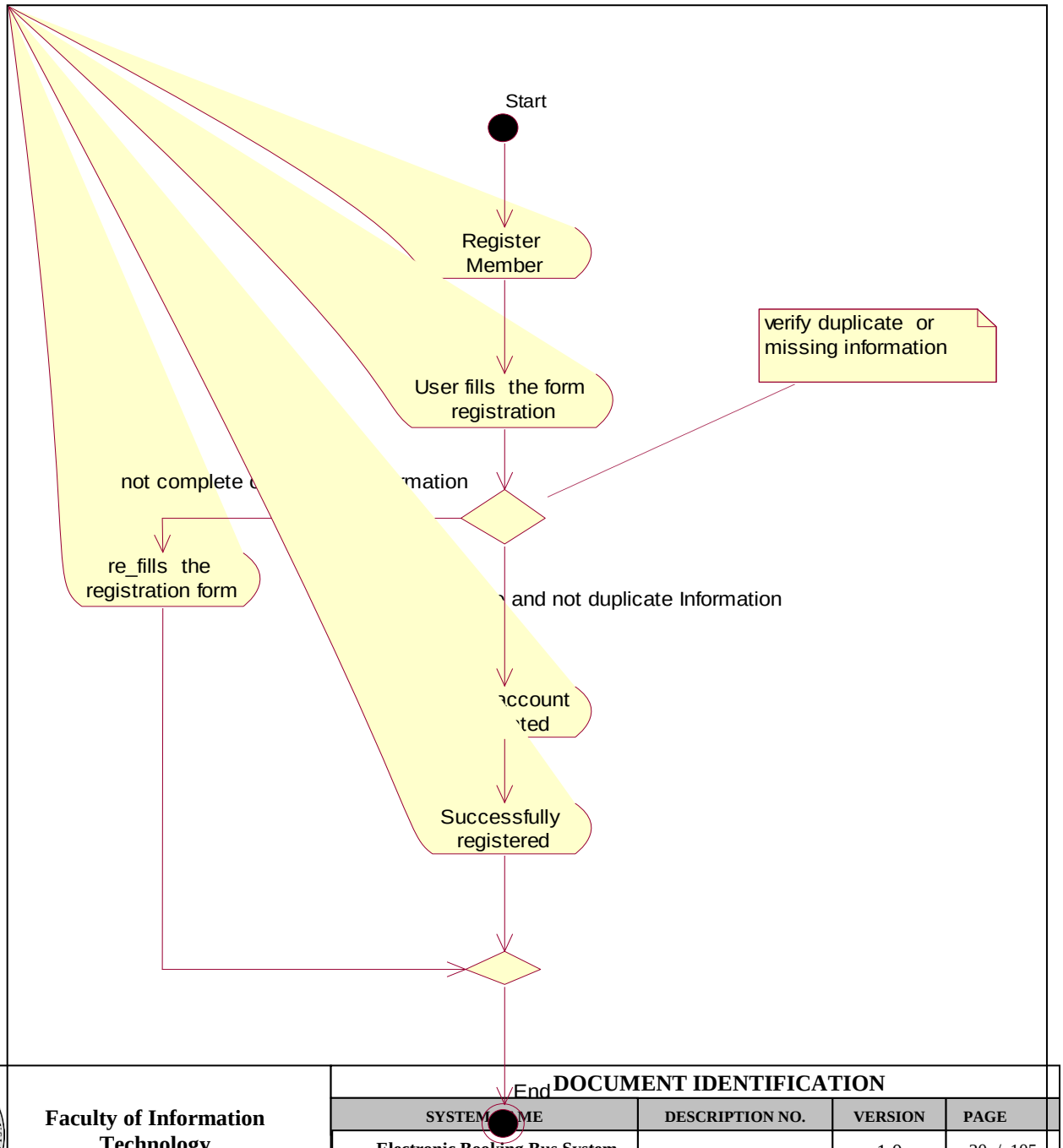
12.7 CONSTRAINT(S) (EBBS_06_07)

- Not applicable.

13.0 -ACTIVITY DIAGRAM FOR EBBS

The activity diagram for EBB will present each use case by the following .

13.1-Register Member



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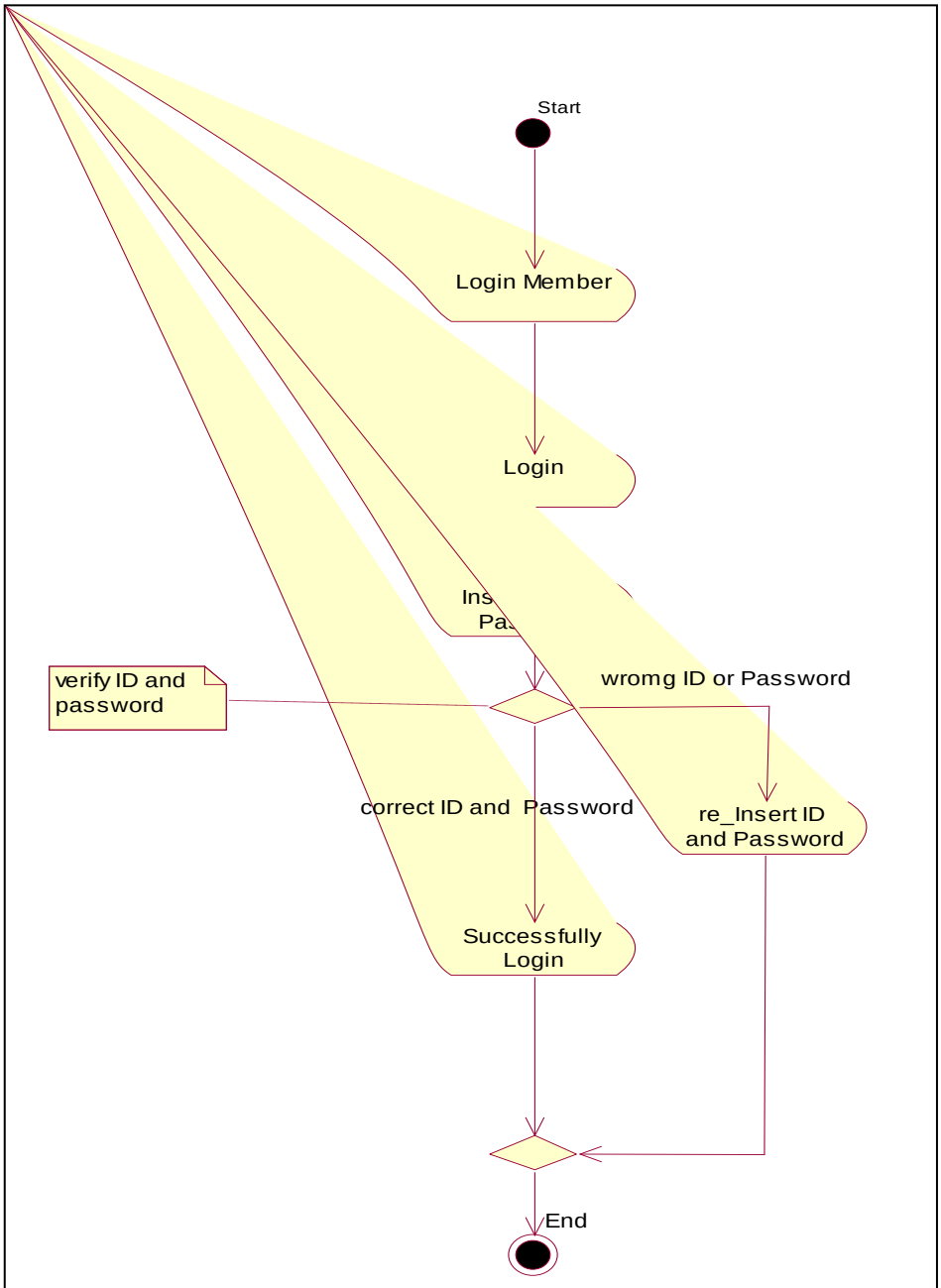
13.2-Activity Diagram for Login



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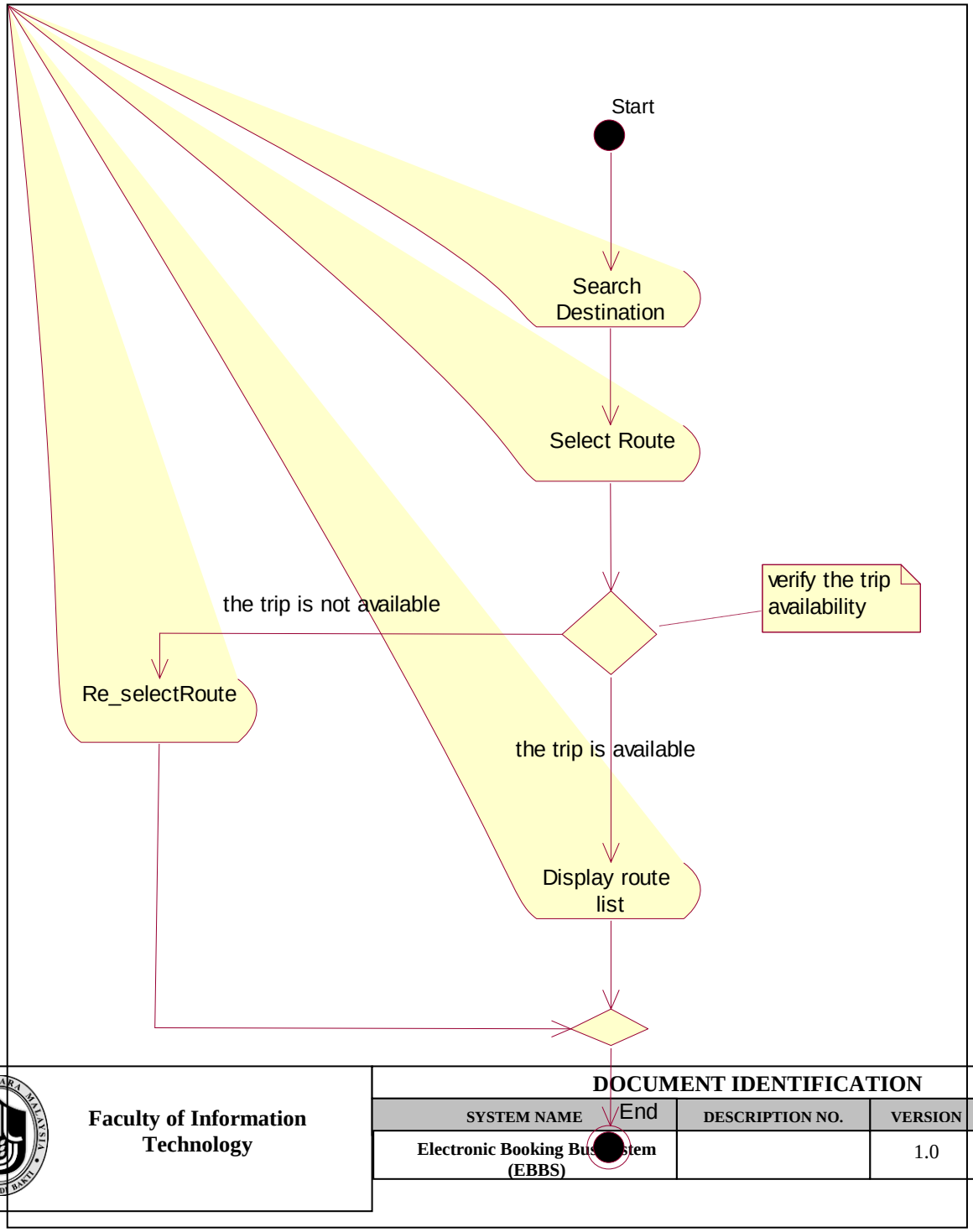
13.3-Activity Diagram for Search Destination



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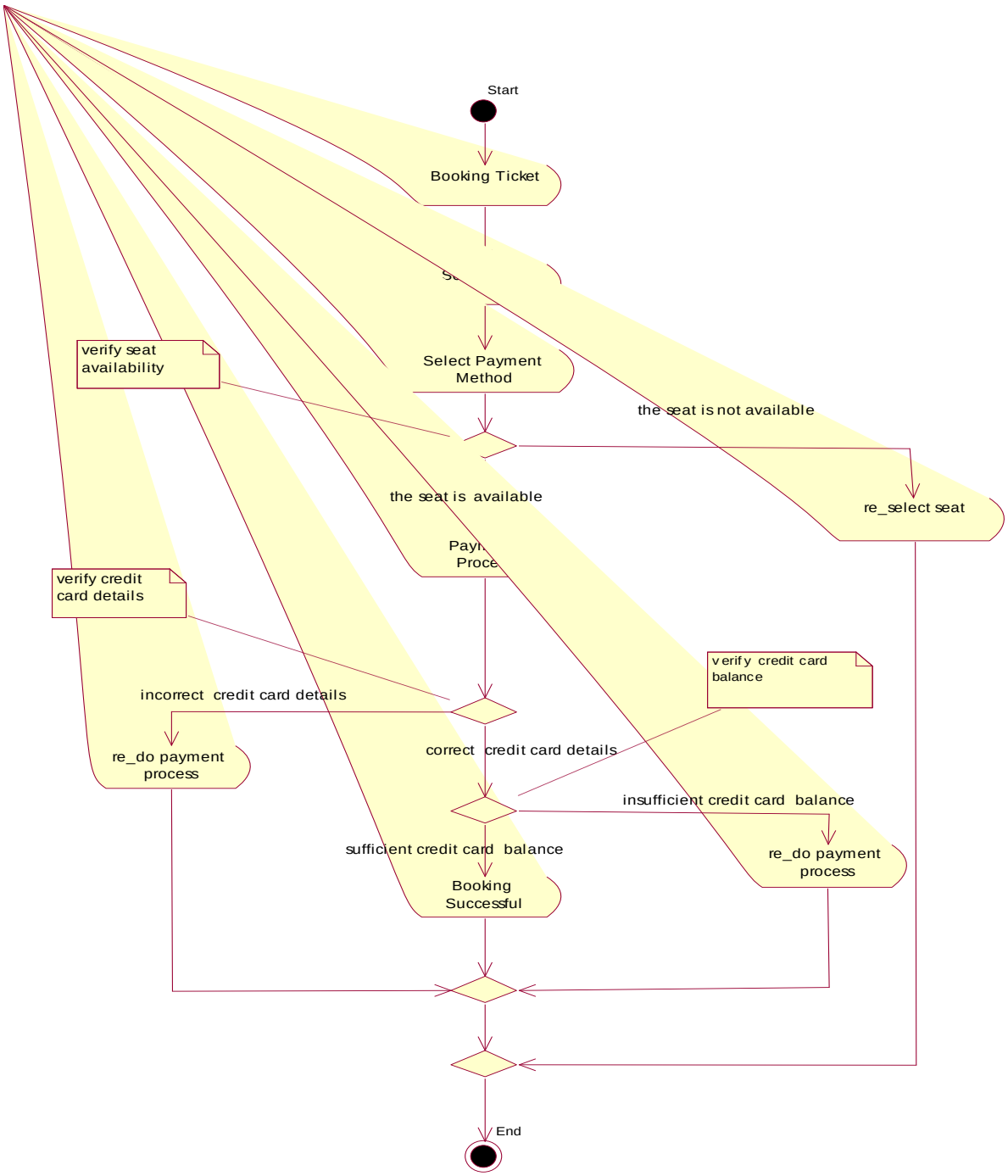
13.4-Activity Diagram for Booking Ticket



13.5-Activity Diagram for Print Receipt

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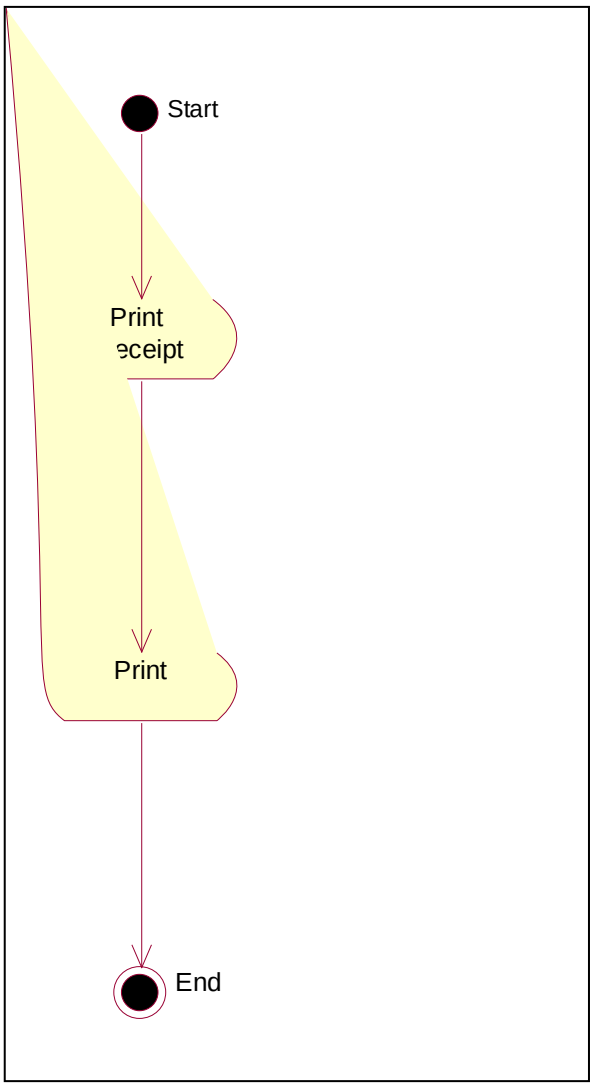

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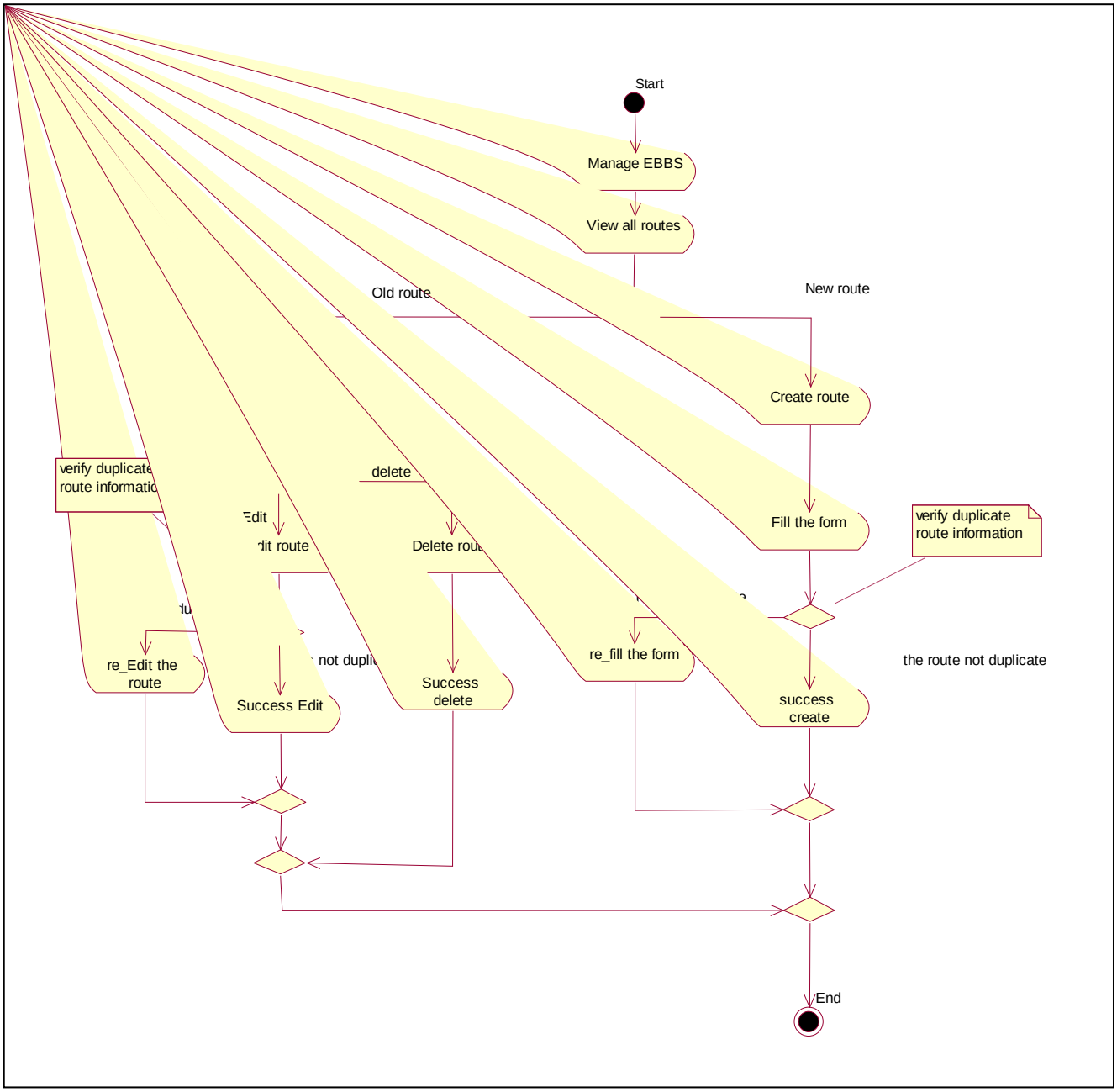
13.6-Activity Diagram for Manage EBBS



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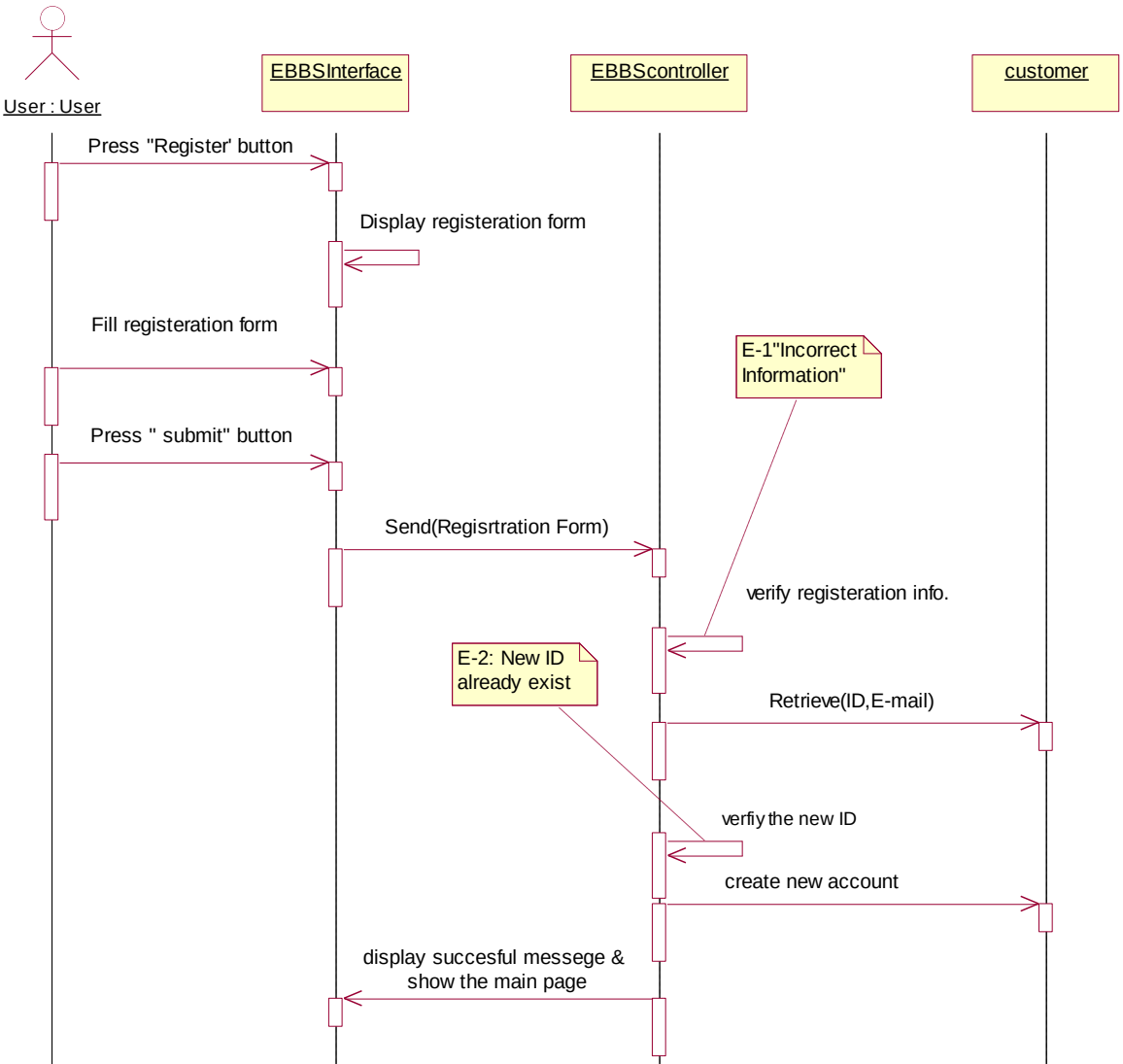
14.0-ANALYSIS SEQUENCE DIAGRAM
14.1 SEQUENCE DIAGRAM FOR USE CASE REGITER MEMBER : BASIC FLOW



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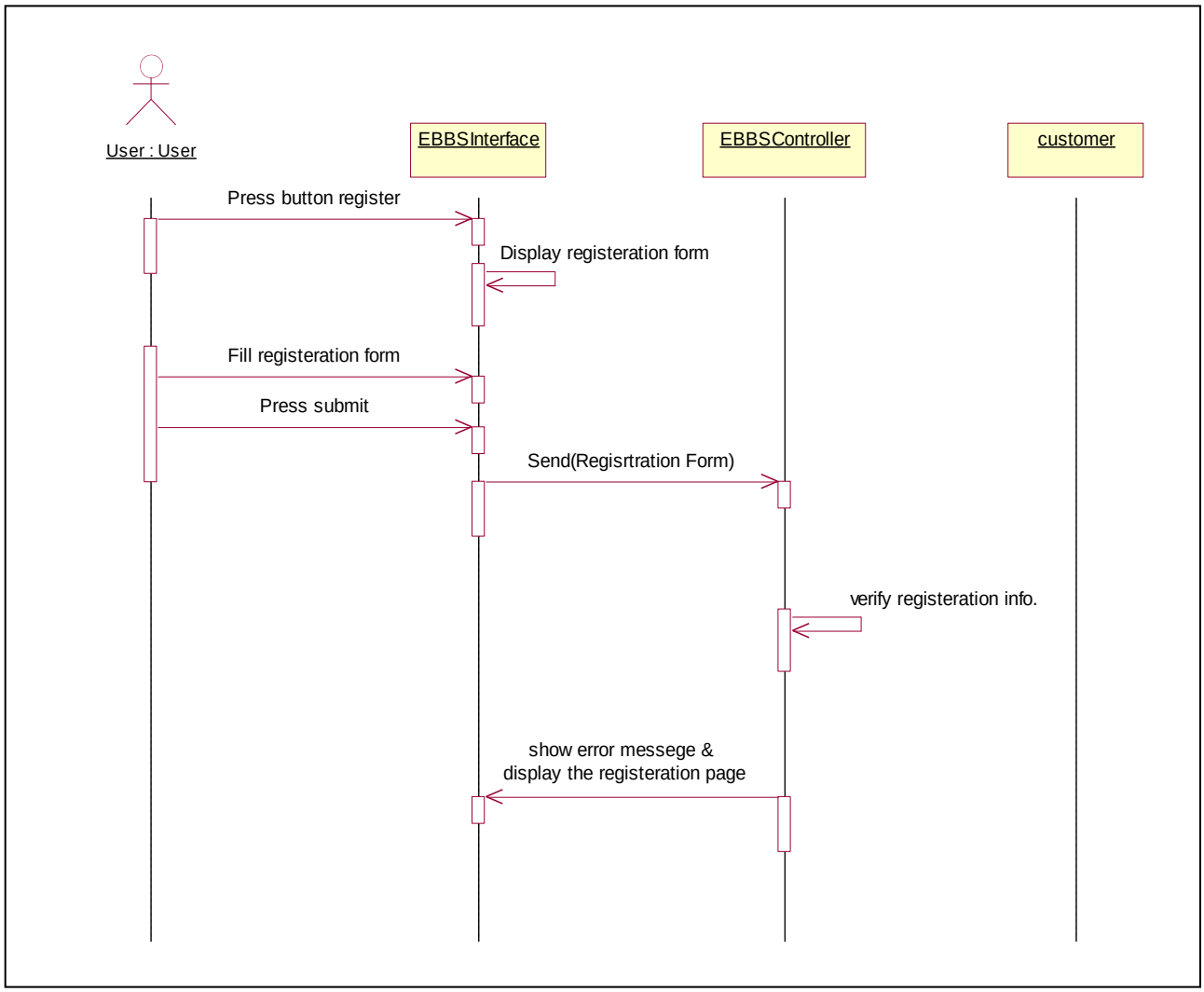
14.1.1 SEQUENCE DIAGRAM FOR USE CASE REGITER MEMBER: EXCEPTIONAL FLOW E-1



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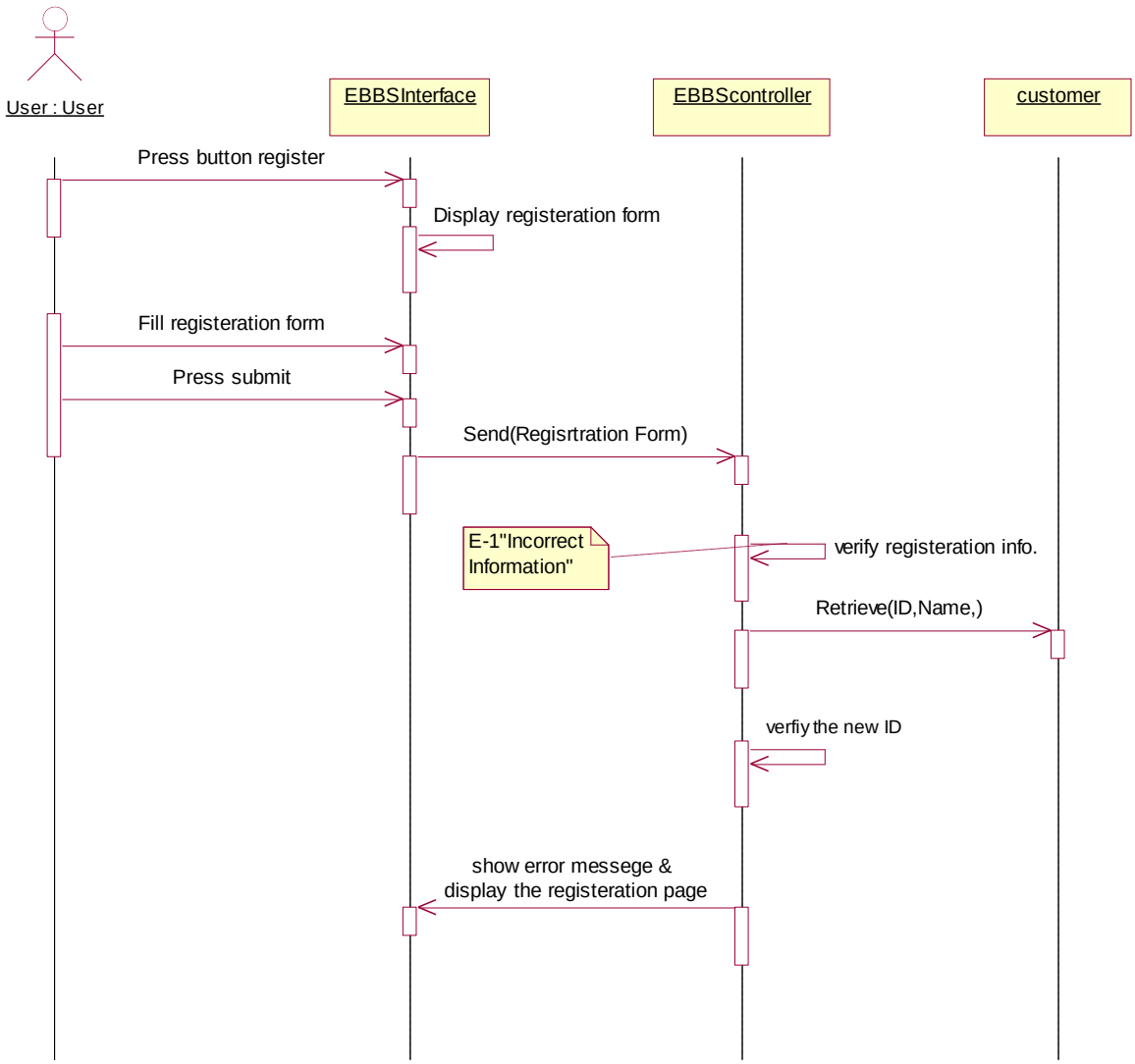
14.1.2-SEQUENCE DIAGRAM FOR USE CASE REGITER MEMBER: EXCEPTIONAL FLOW E-2



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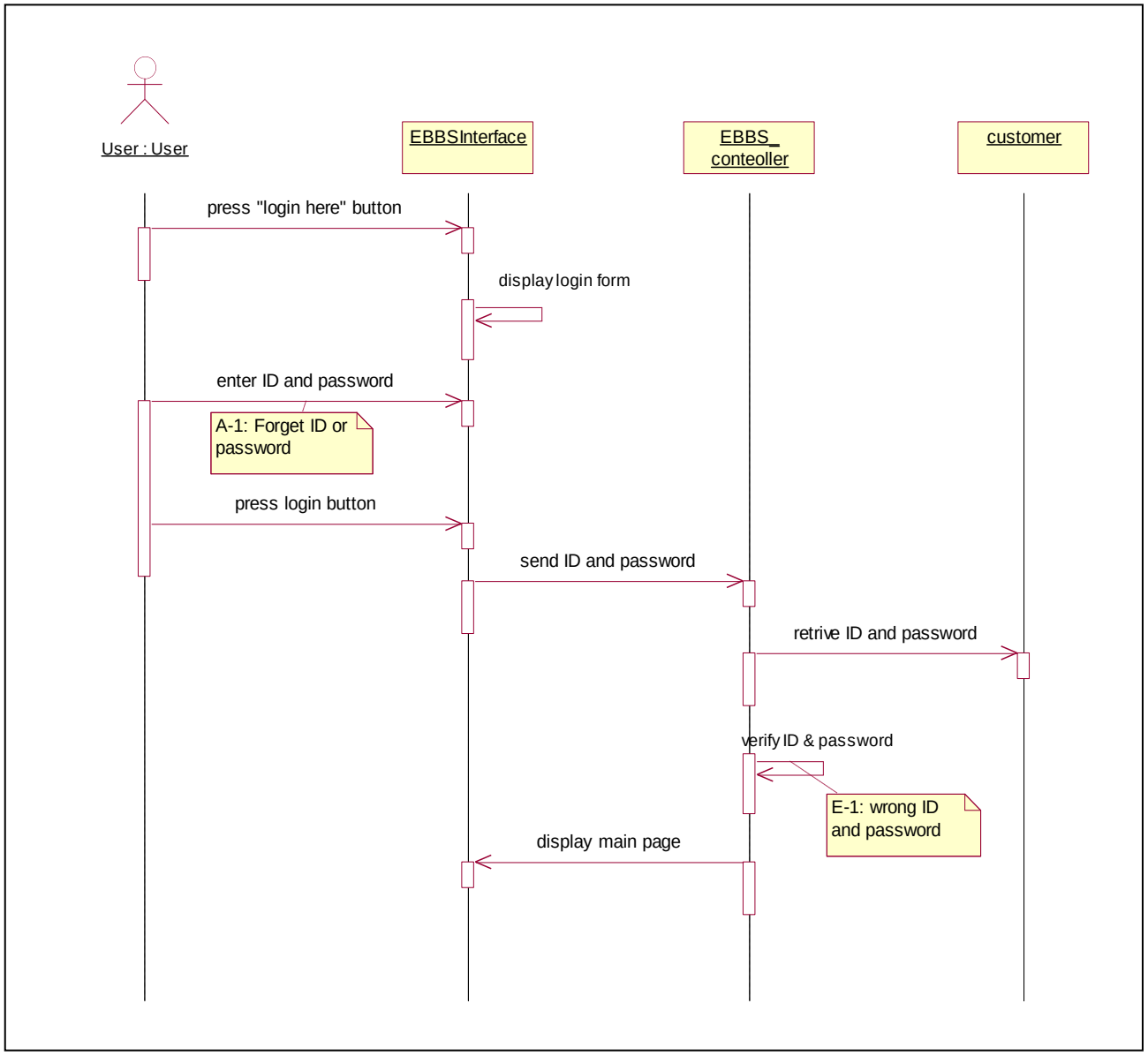
14.2-SEQUENCE DIAGRAM FOR USE CASE LOGIN : BASIC FLOW



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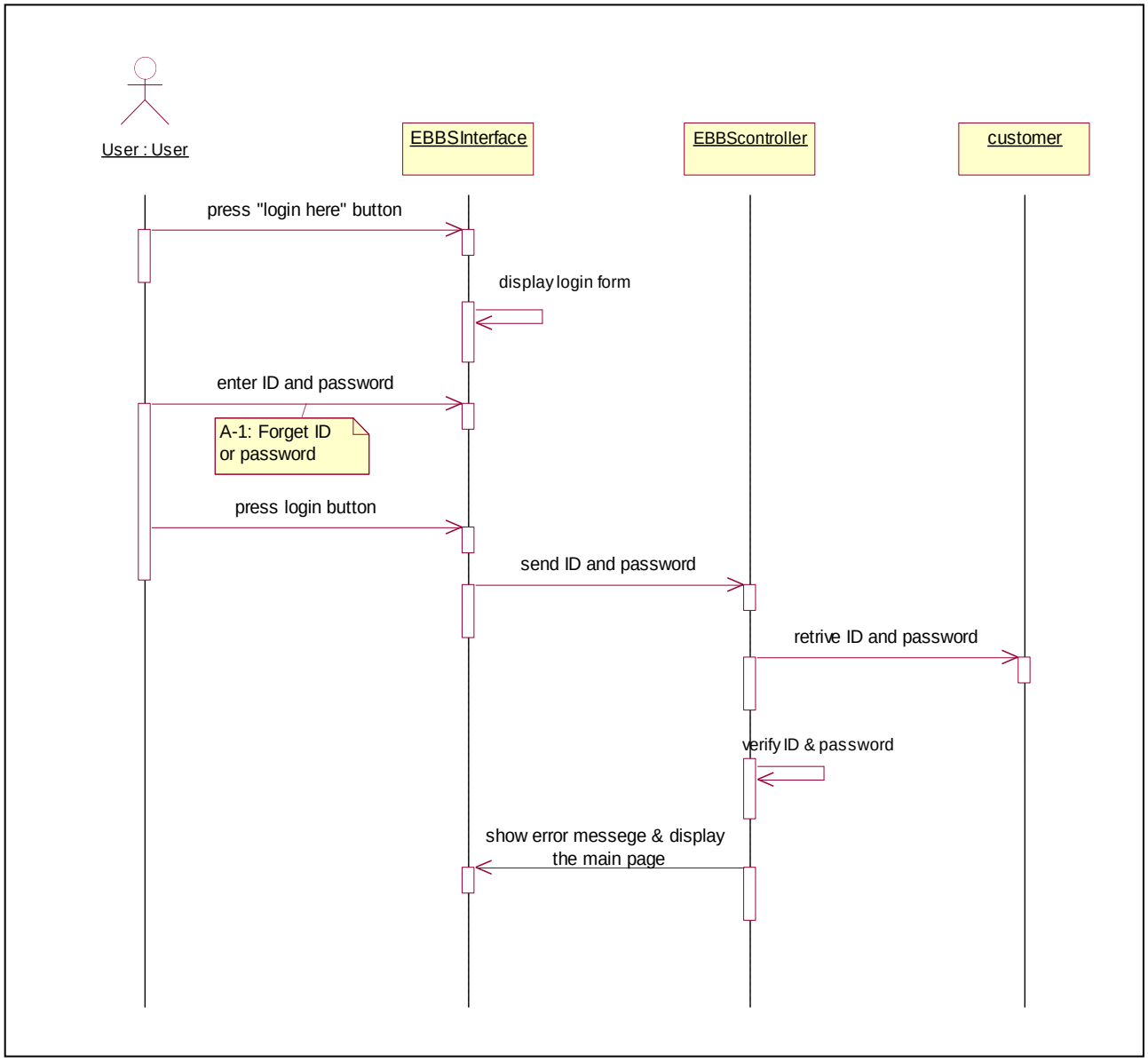
14.2.1-SEQUENCE DIAGRAM FOR USE CASE LOGIN : EXCEPTIONAL FLOW E-1



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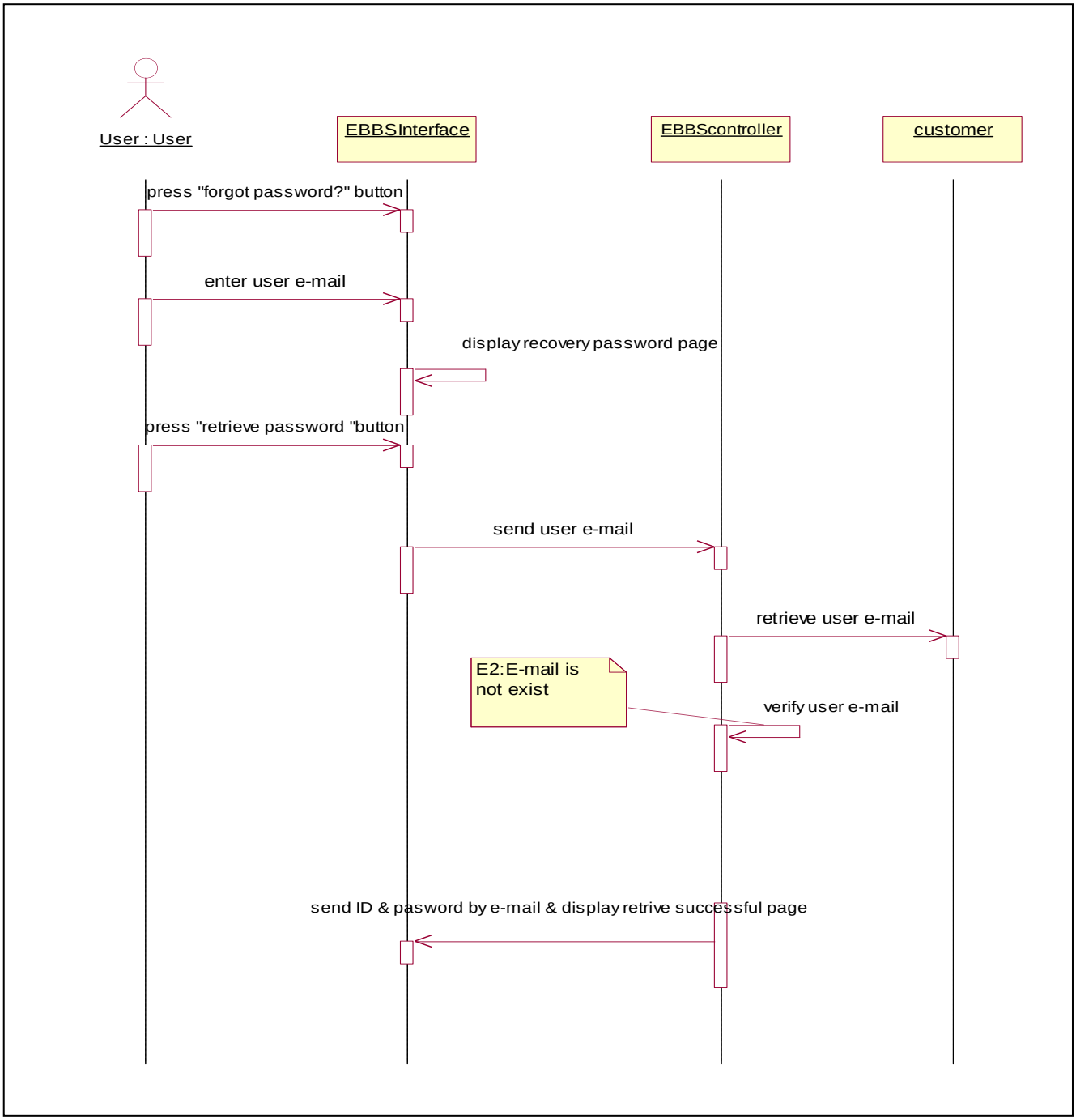
14.2.2-SEQUENCE DIAGRAM FOR USE CASE LOGIN : ALTERNATIVE FLOW A-1



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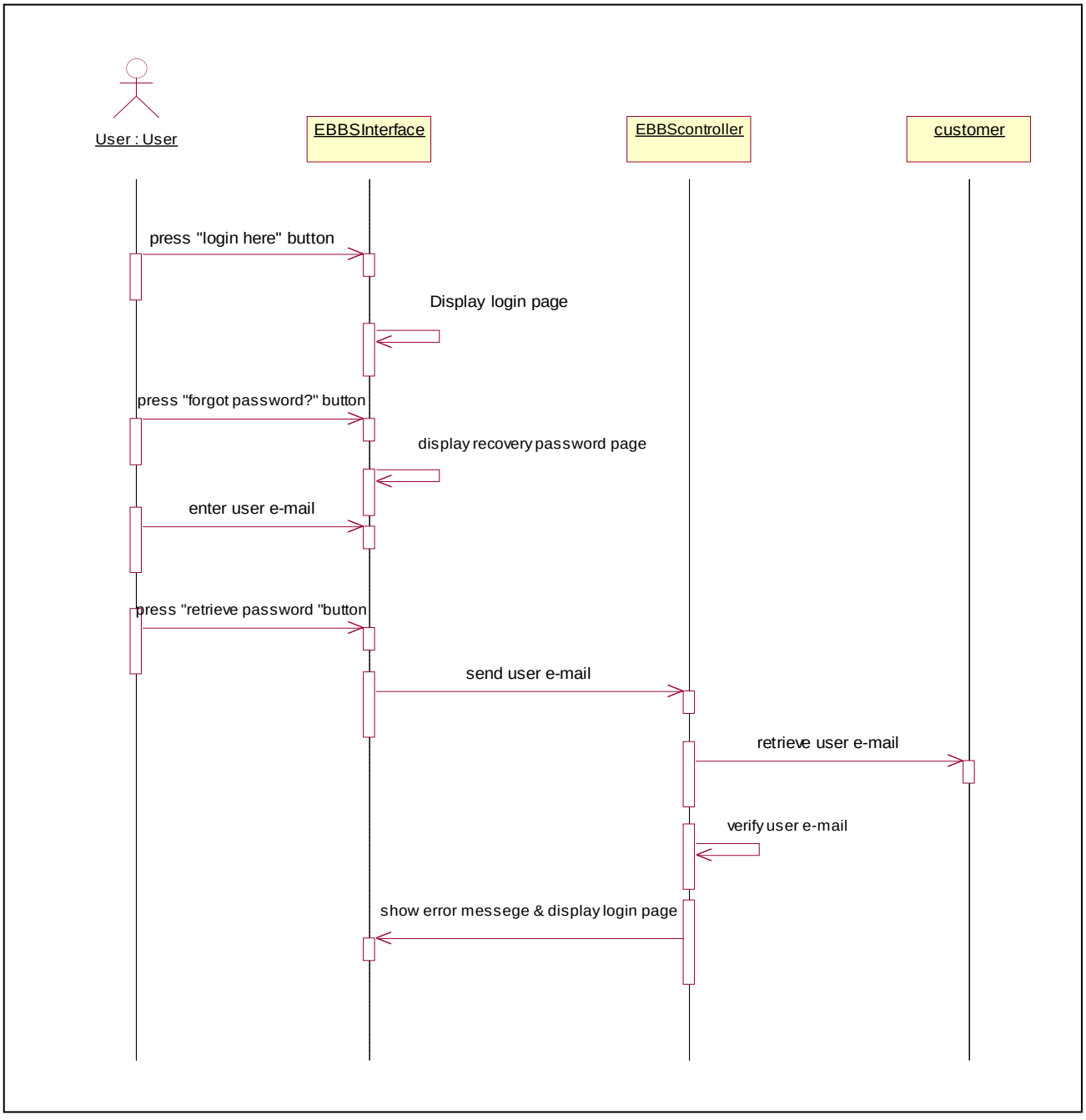
14.2.3-SEQUENCE DIAGRAM FOR USE CASE LOGIN : EXCEPTIONAL FLOW A-1:E-2



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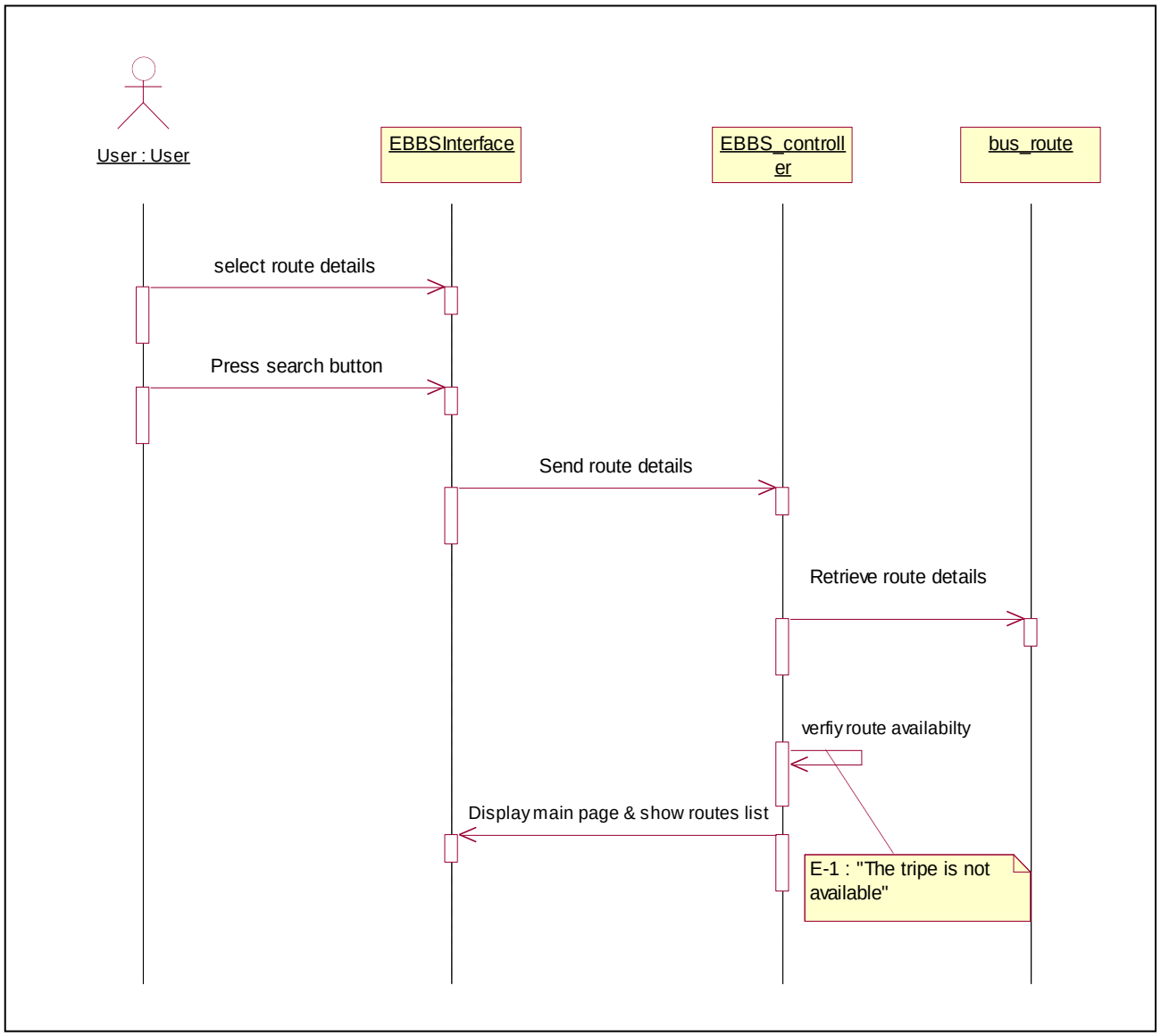
14.3-SEQUENCE DIAGRAM FOR USE CASE SEARCH DESTINATION : BASIC FLOW



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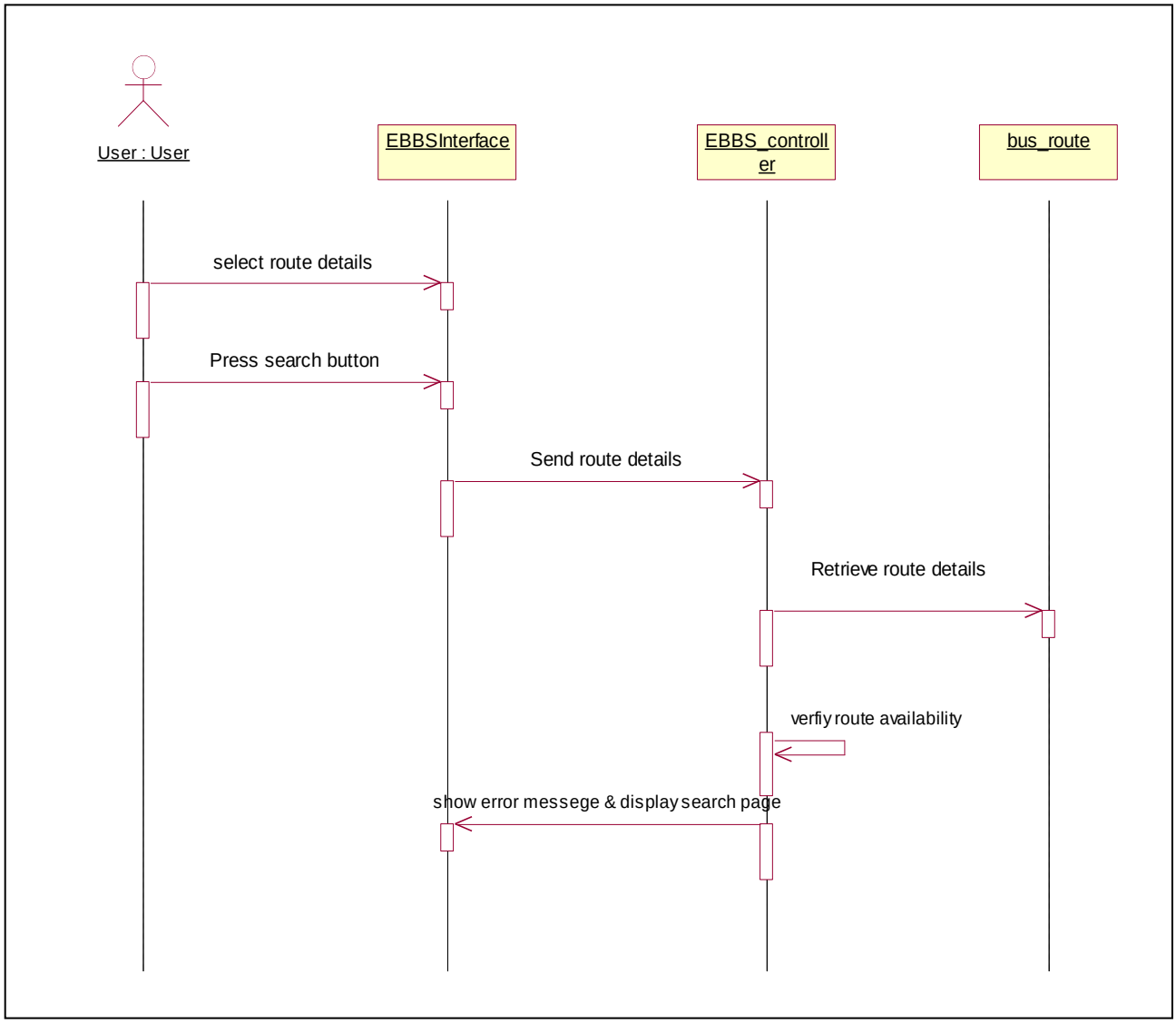
14.3.1-SEQUENCE DIAGRAM FOR USE CASE SEARCH DESTINATION: EXCEPTIONAL FLOW E-1



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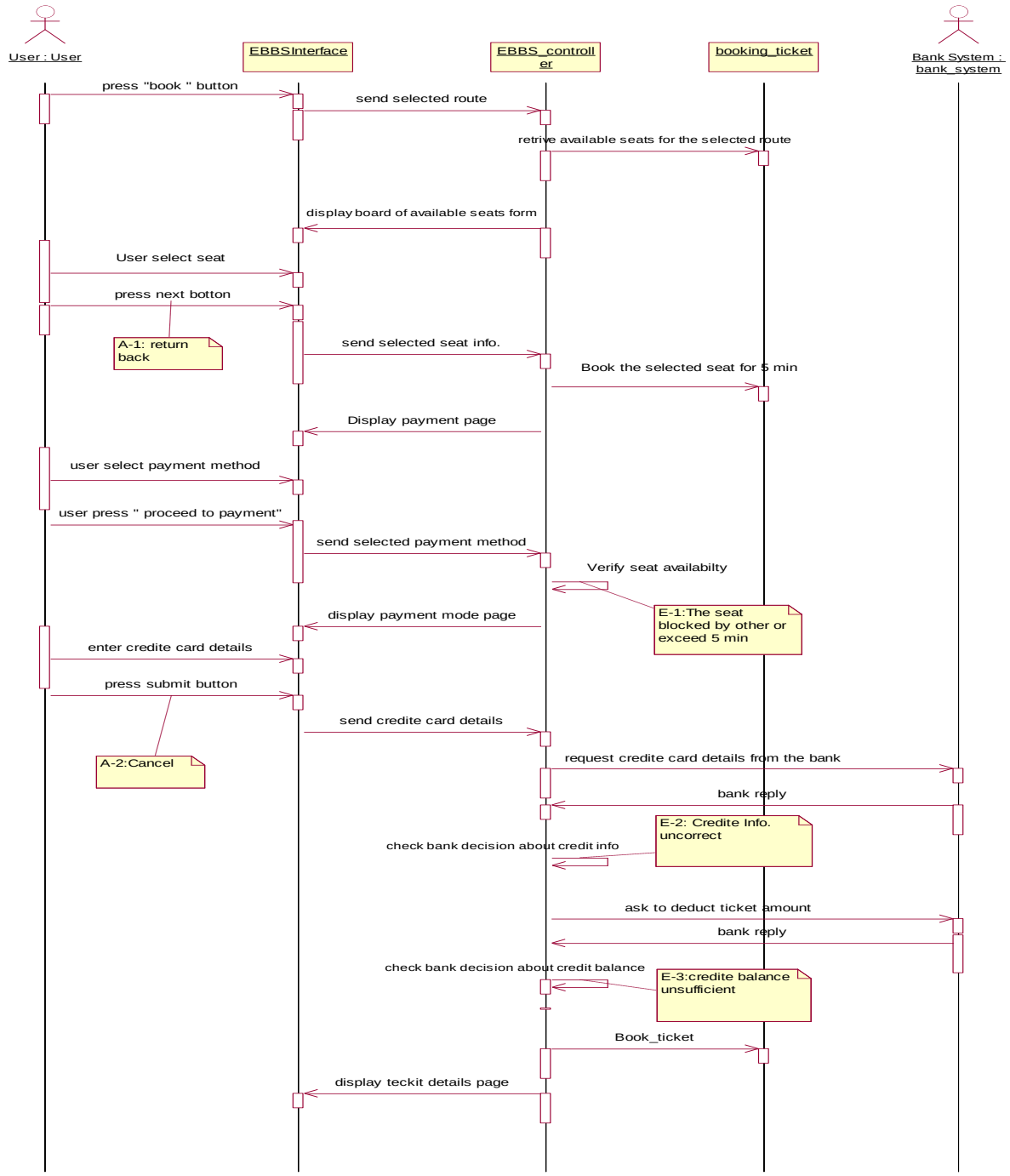
14.4-SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET: BASIC FLOW



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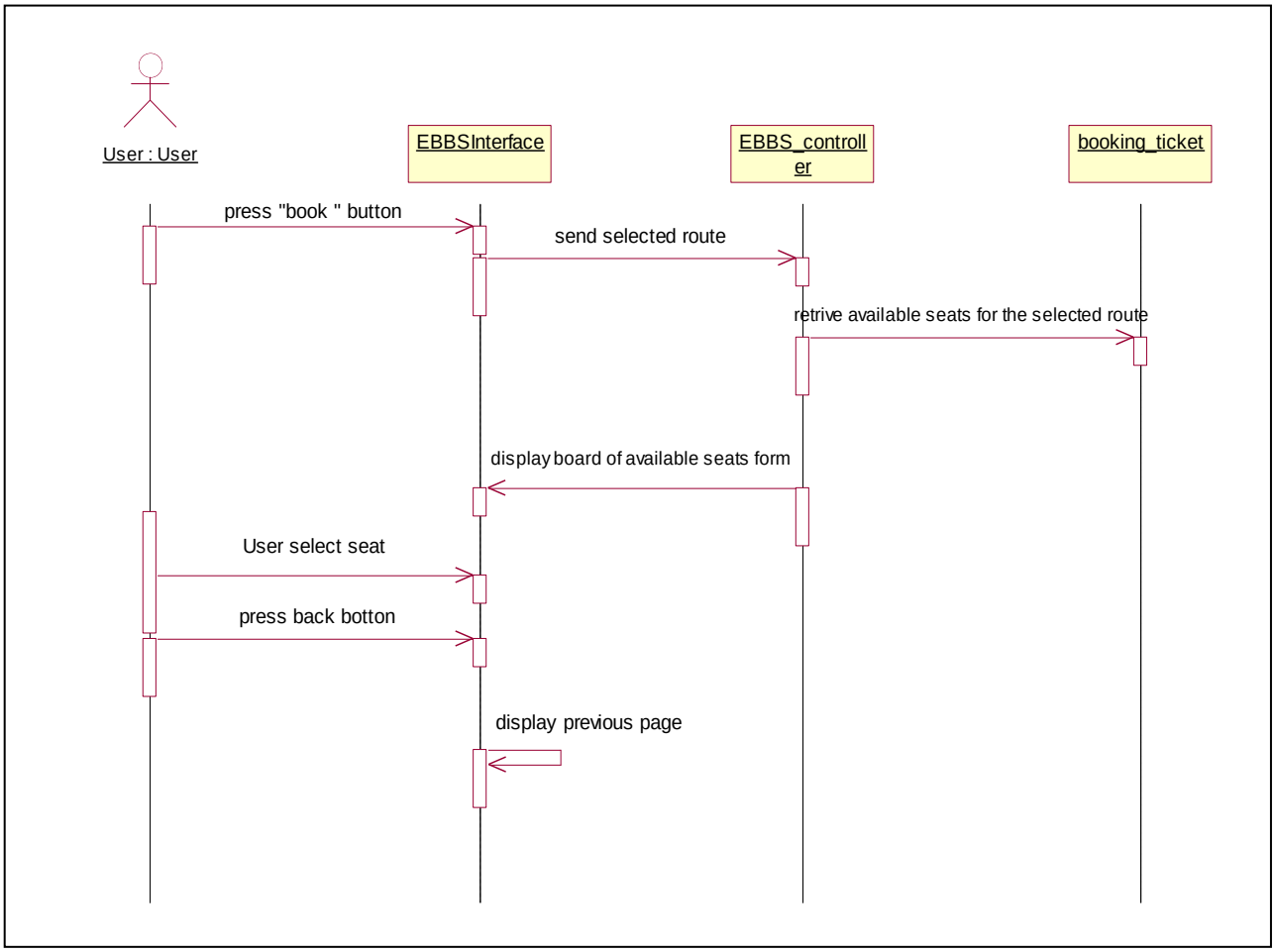
14.4.1-SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : ALTERNATIVE FLOW A-1



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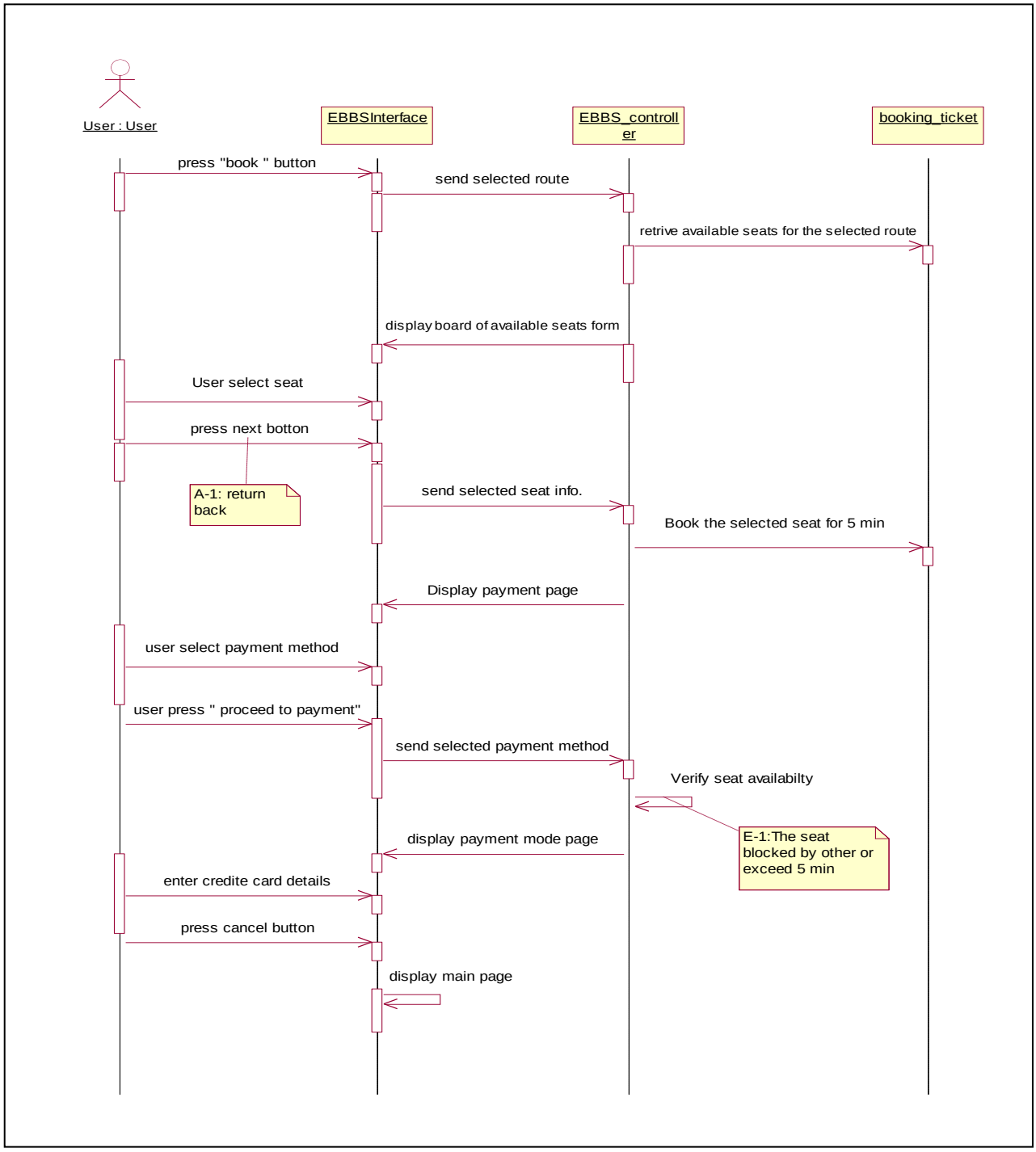
14.4.2-SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : ALTERNATIVE FLOW A-2



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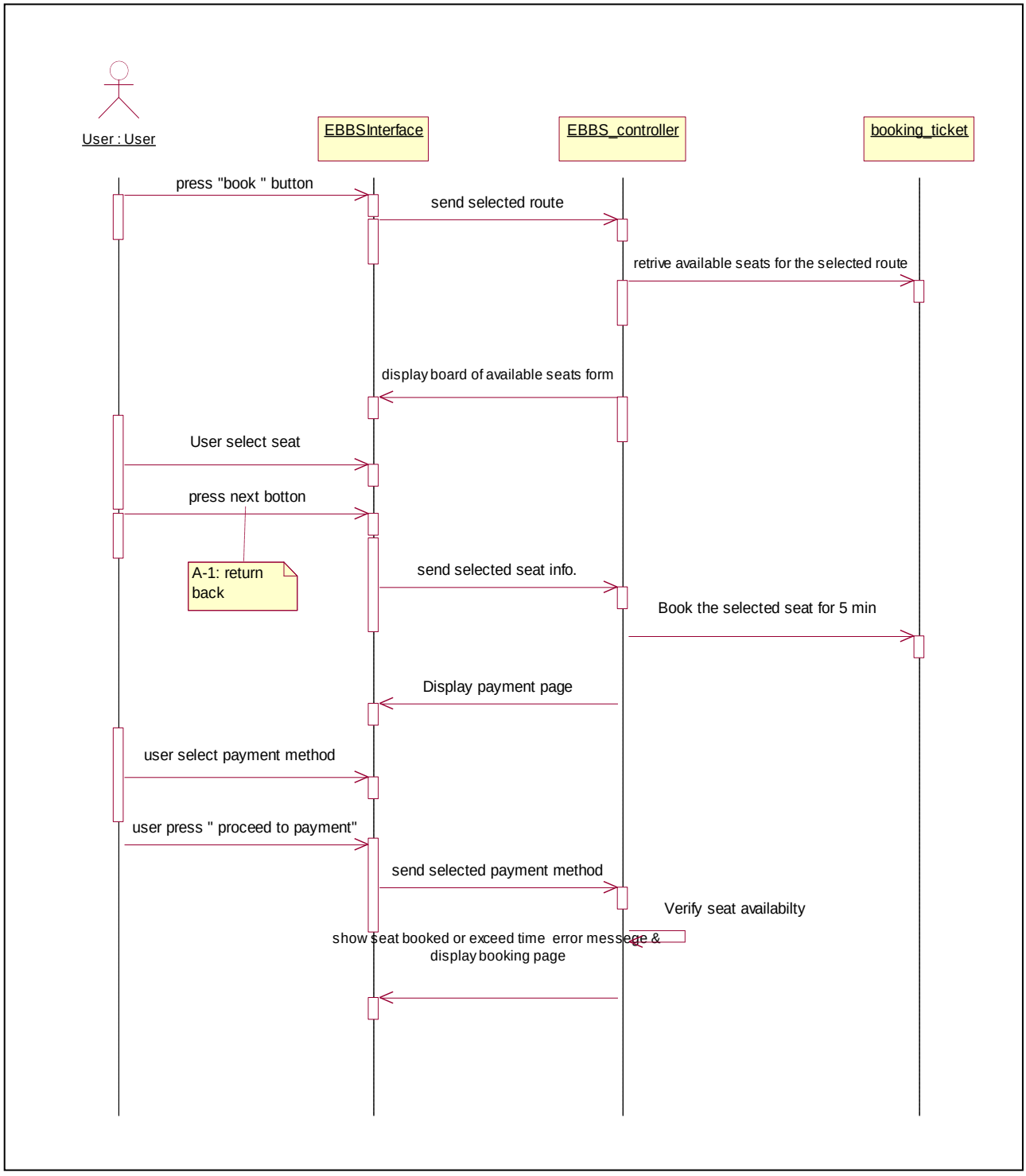
14.4.3-SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : EXCEPTIONAL FLOW E-1



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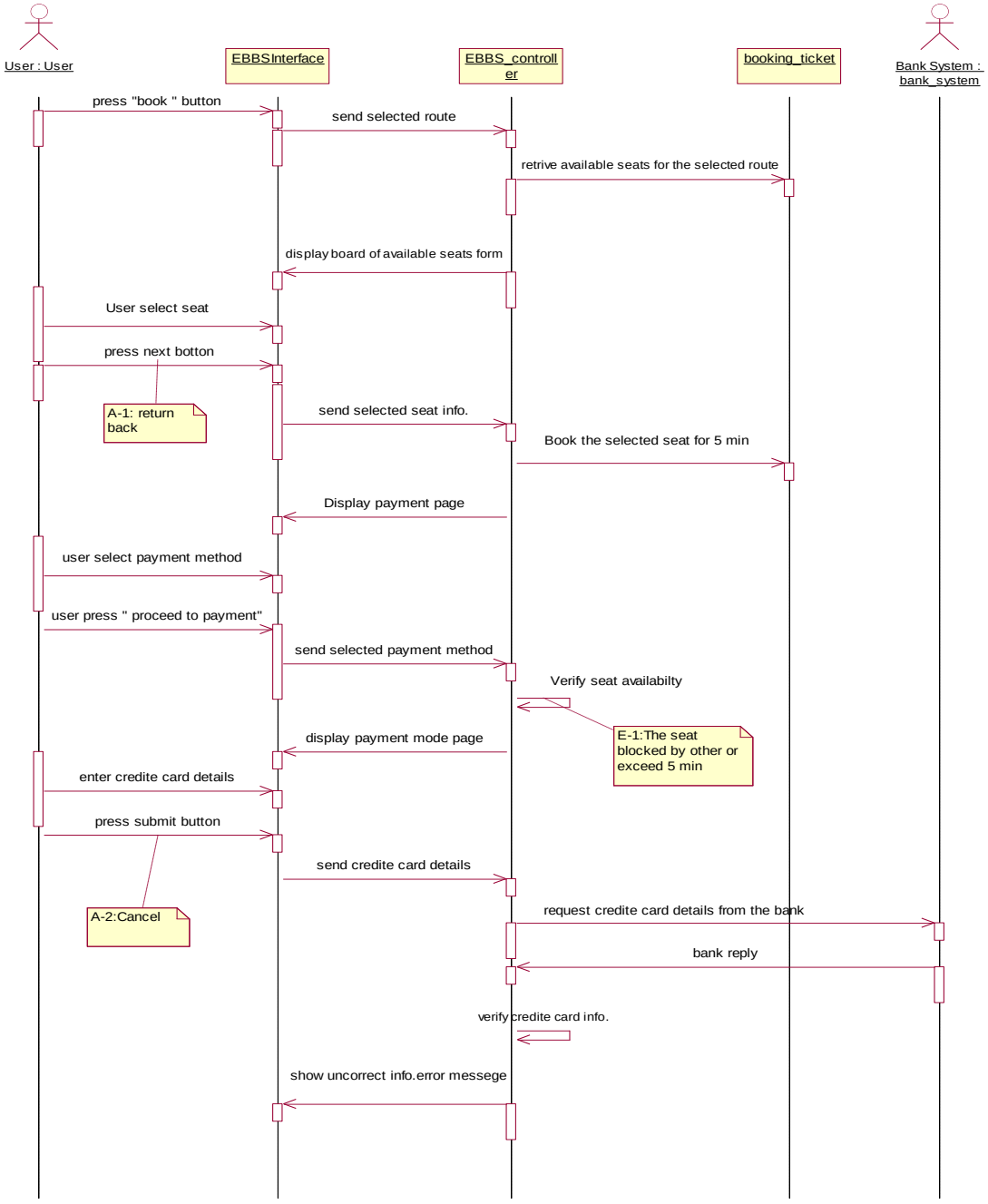
14.4.4-SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : EXCEPTIONAL FLOW E-2



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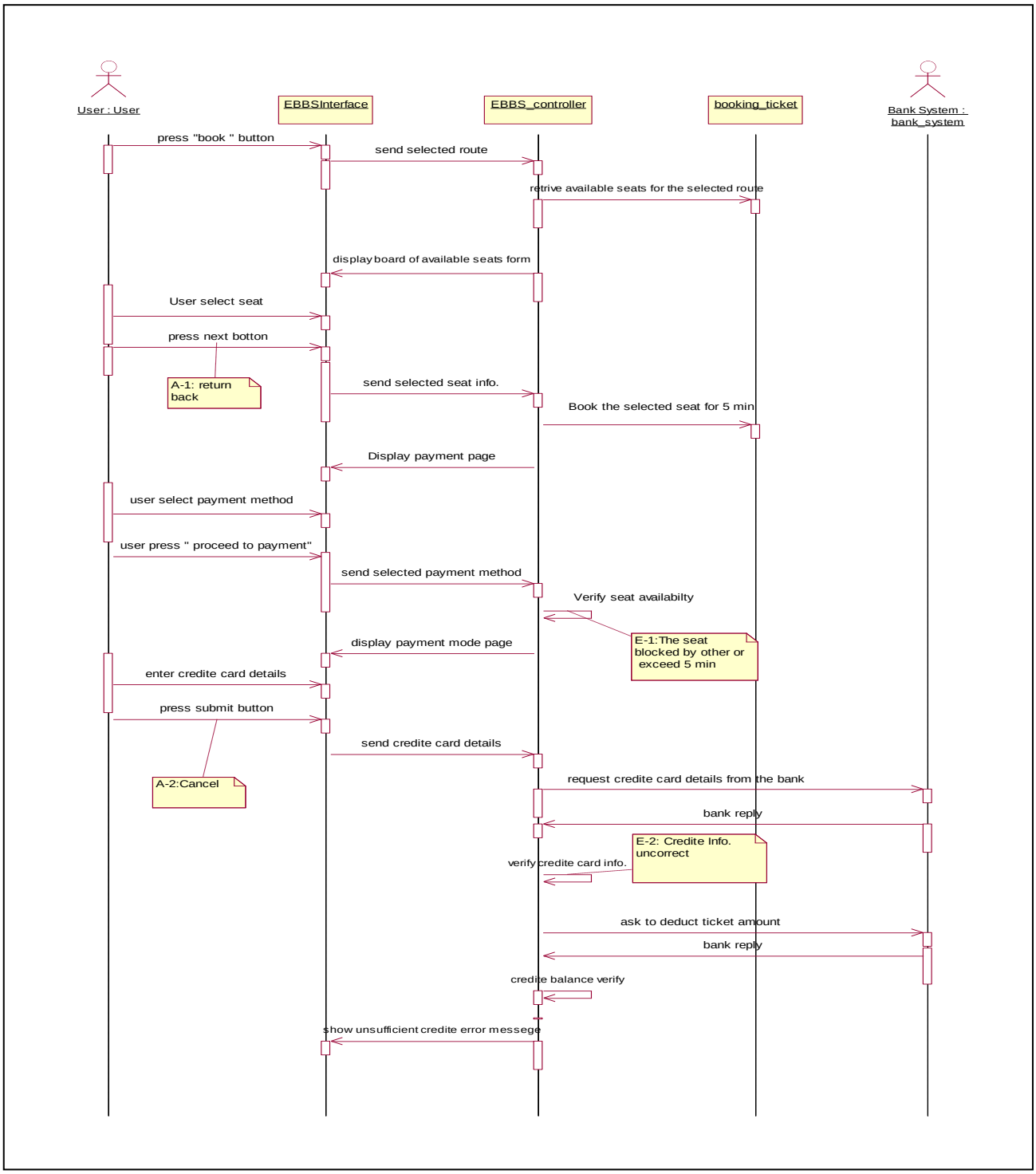
14.4.5-SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : EXCEPTIONAL FLOW E-3



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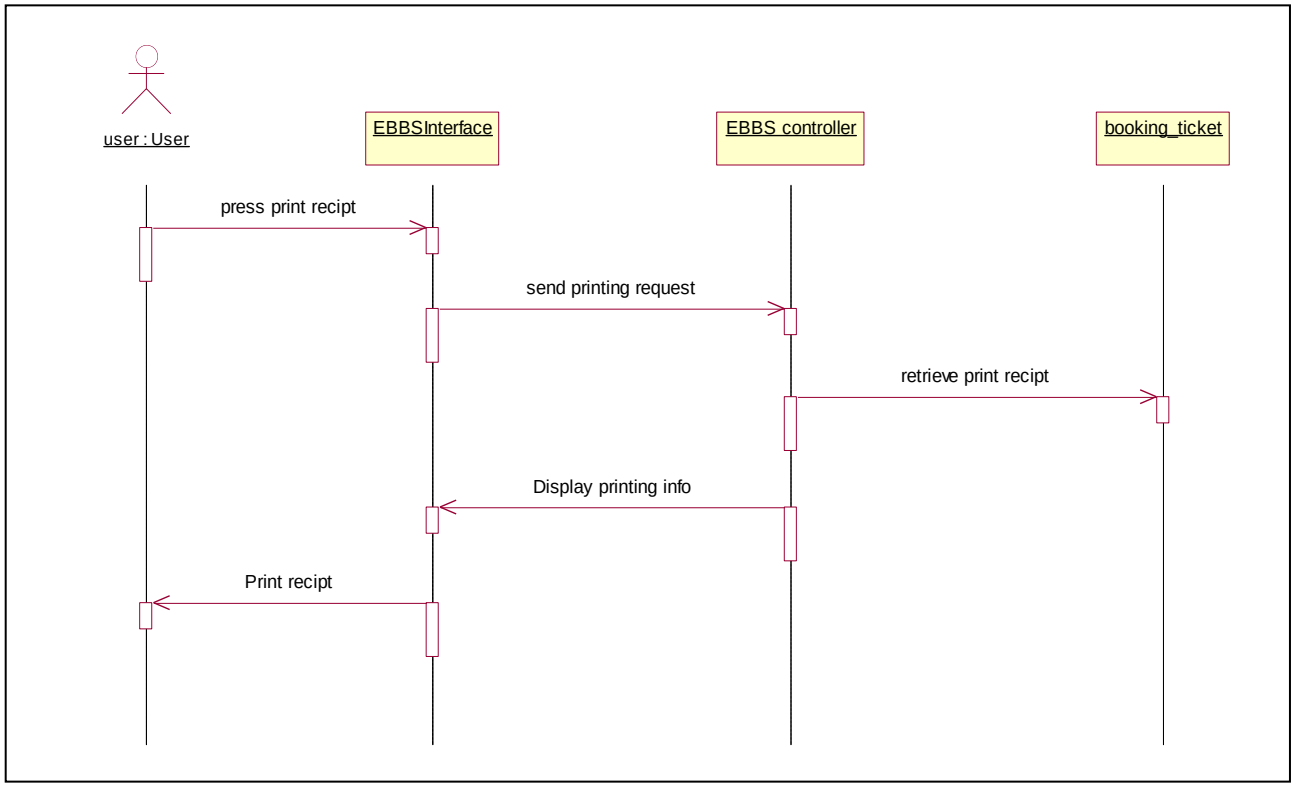
14.5-SEQUENCE DIAGRAM FOR USE CASE PRINT RECIEPT : BASIC FLOW



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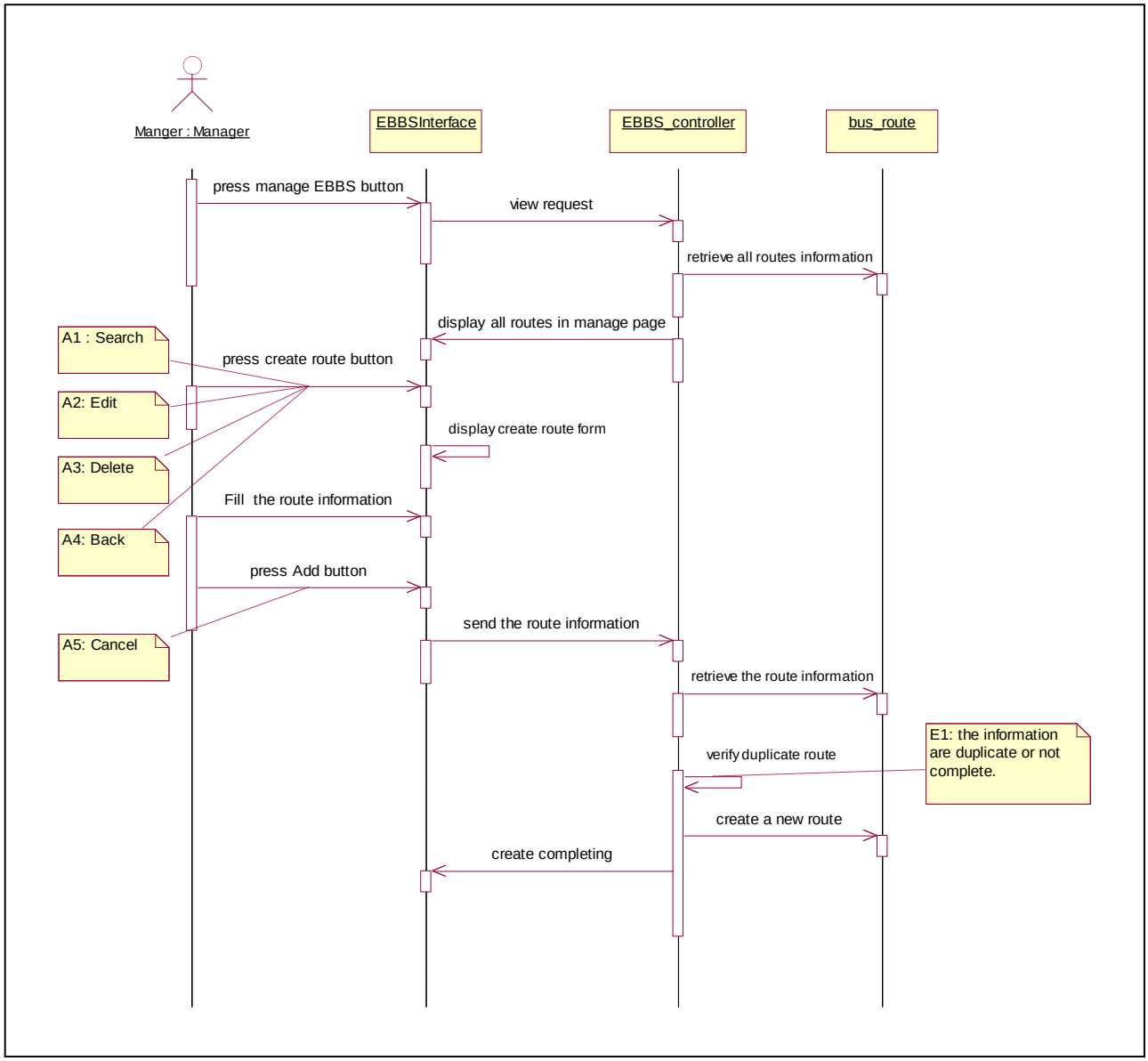
14.6-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : BASIC FLOW (CREATE)



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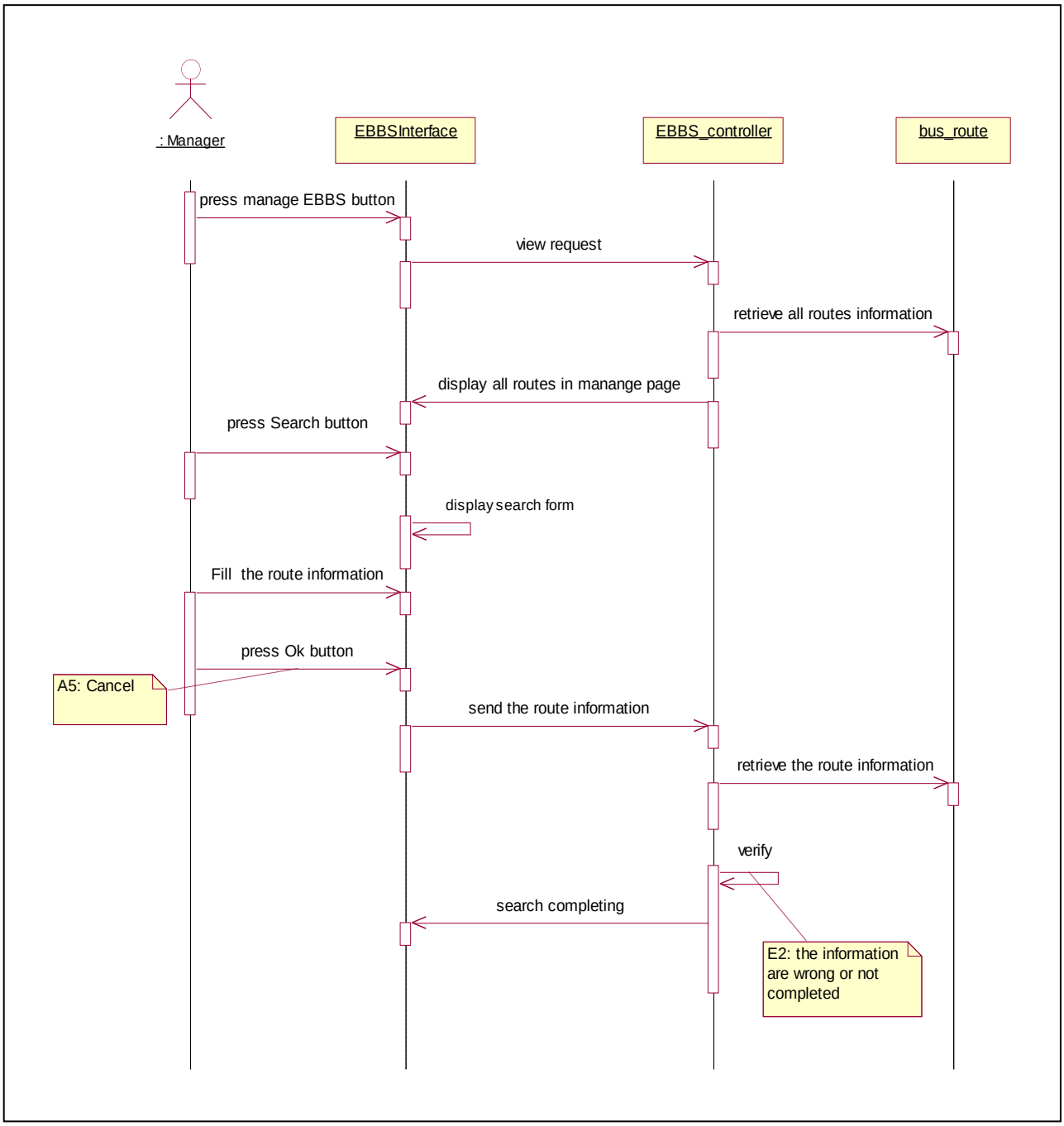
14.6.1-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-1(SEARCH)



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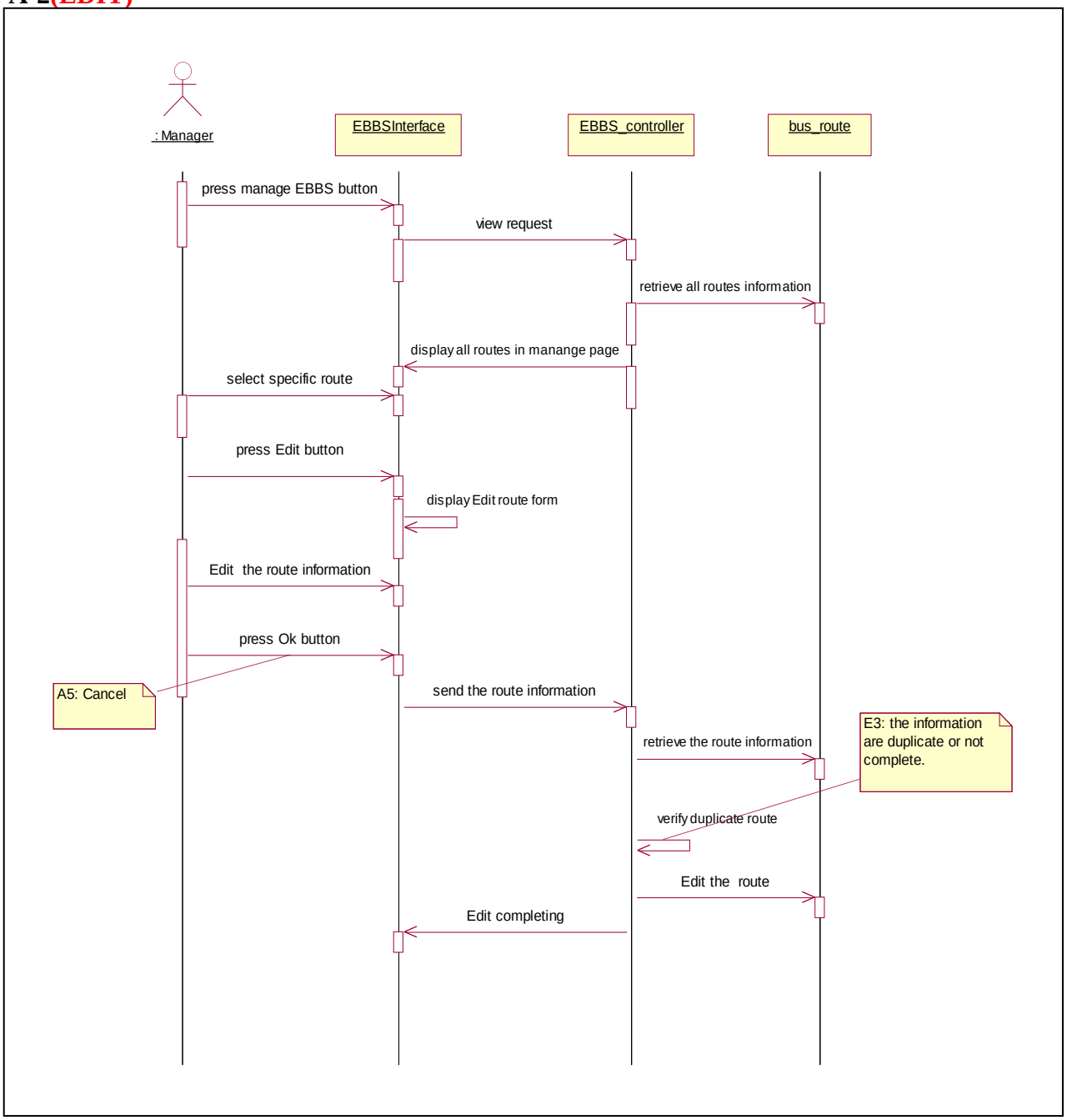
14.6.2-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-2(EDIT)



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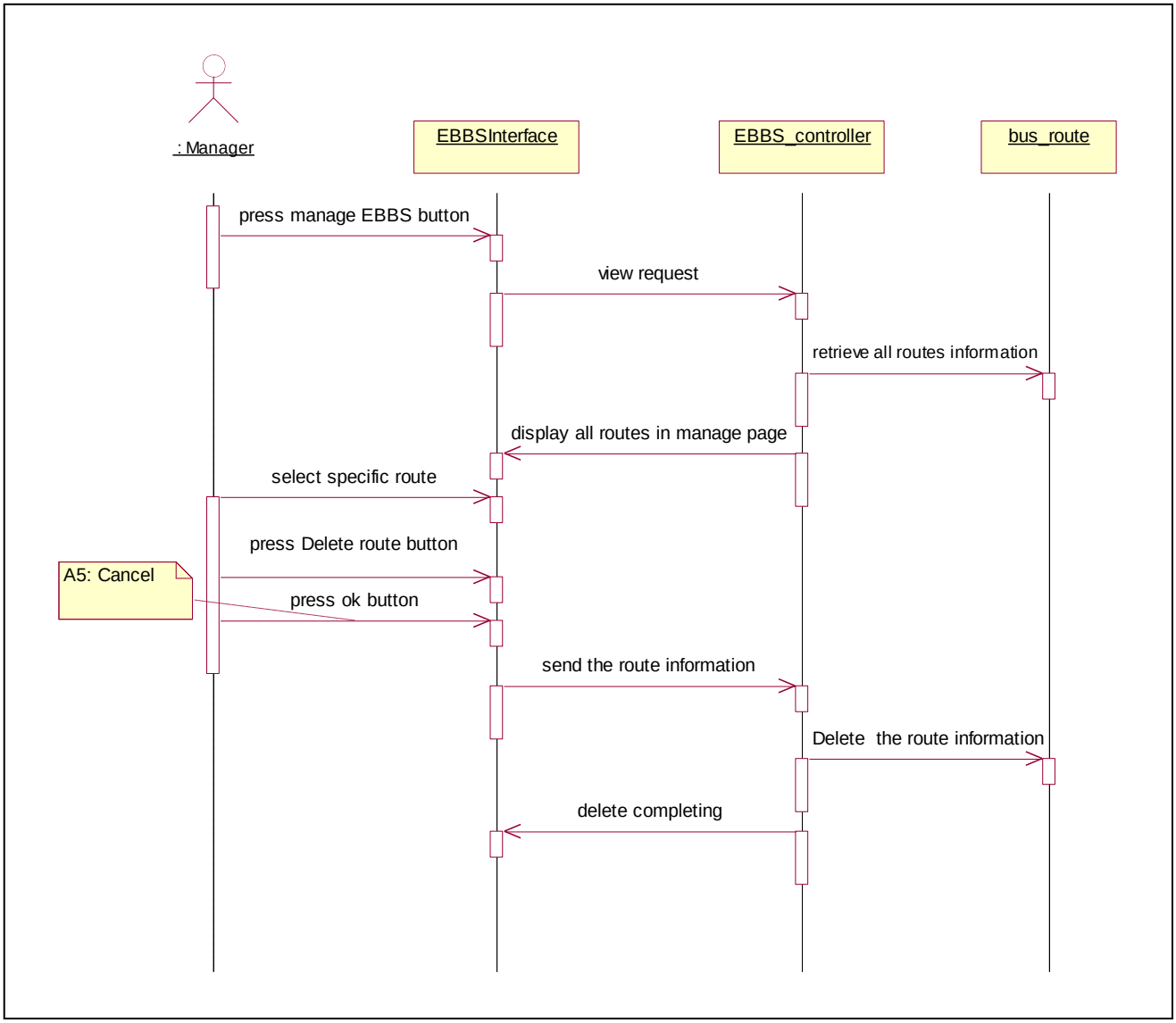
14.6.3-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-3(DELETE)



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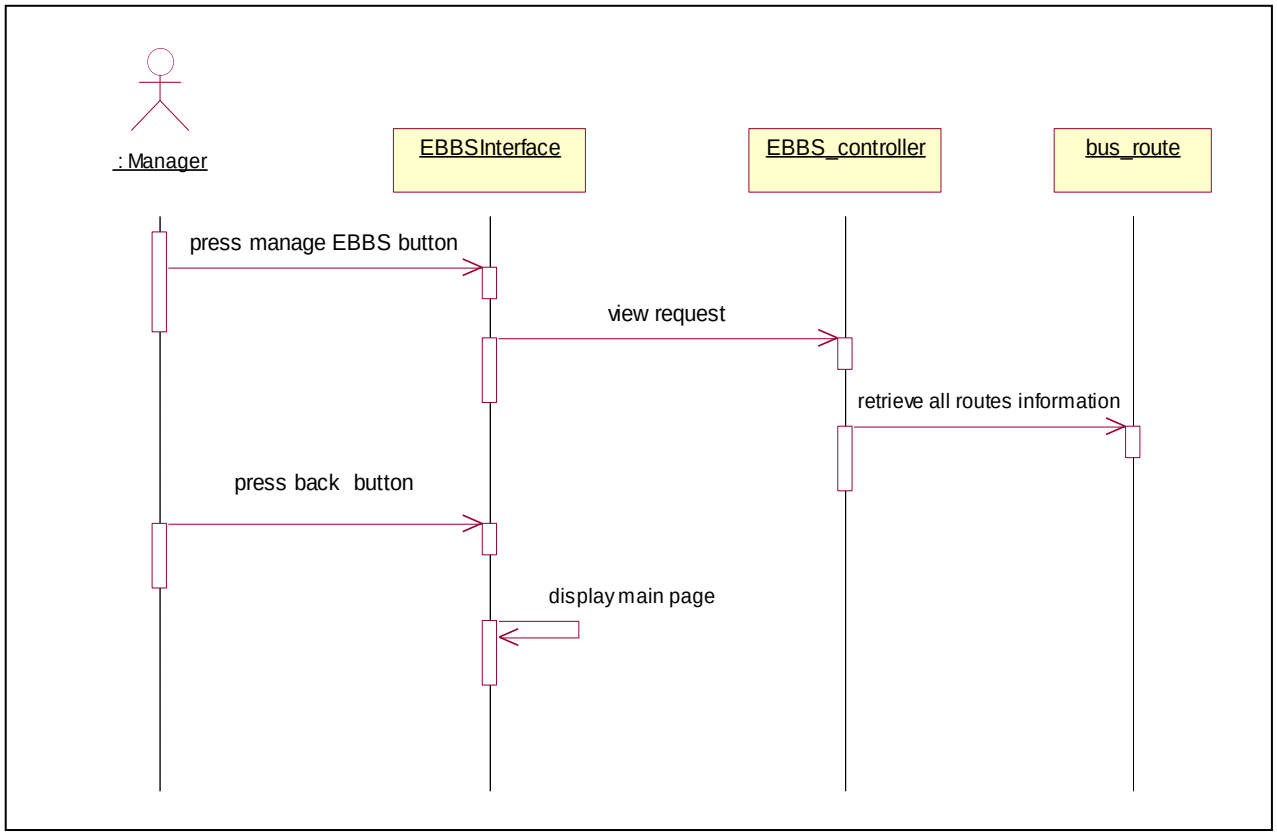
14.6.4-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-4(BACK)



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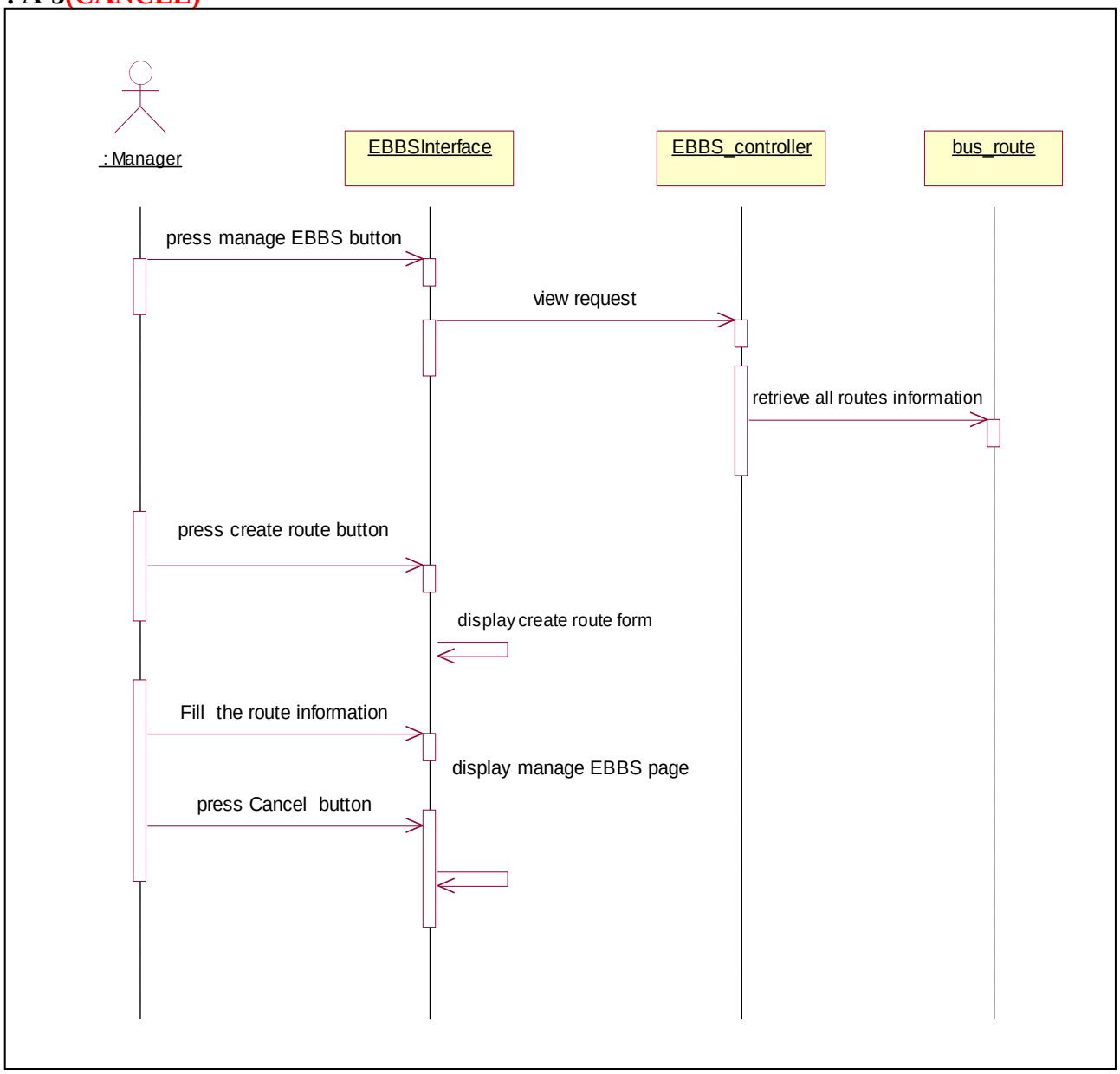
14.6.5-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-5(CANCEL)



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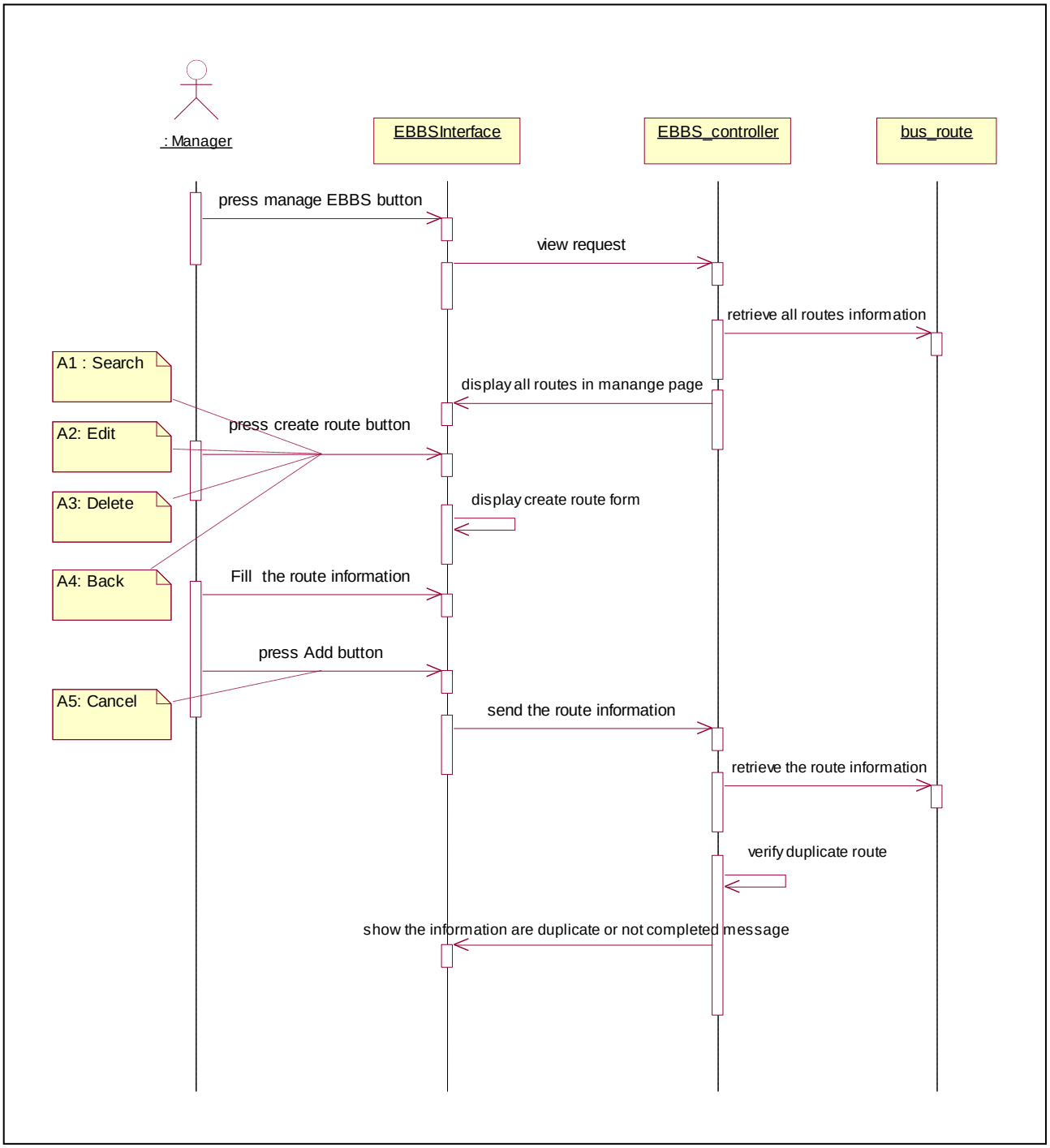
14.6.6-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-1(CREATE)



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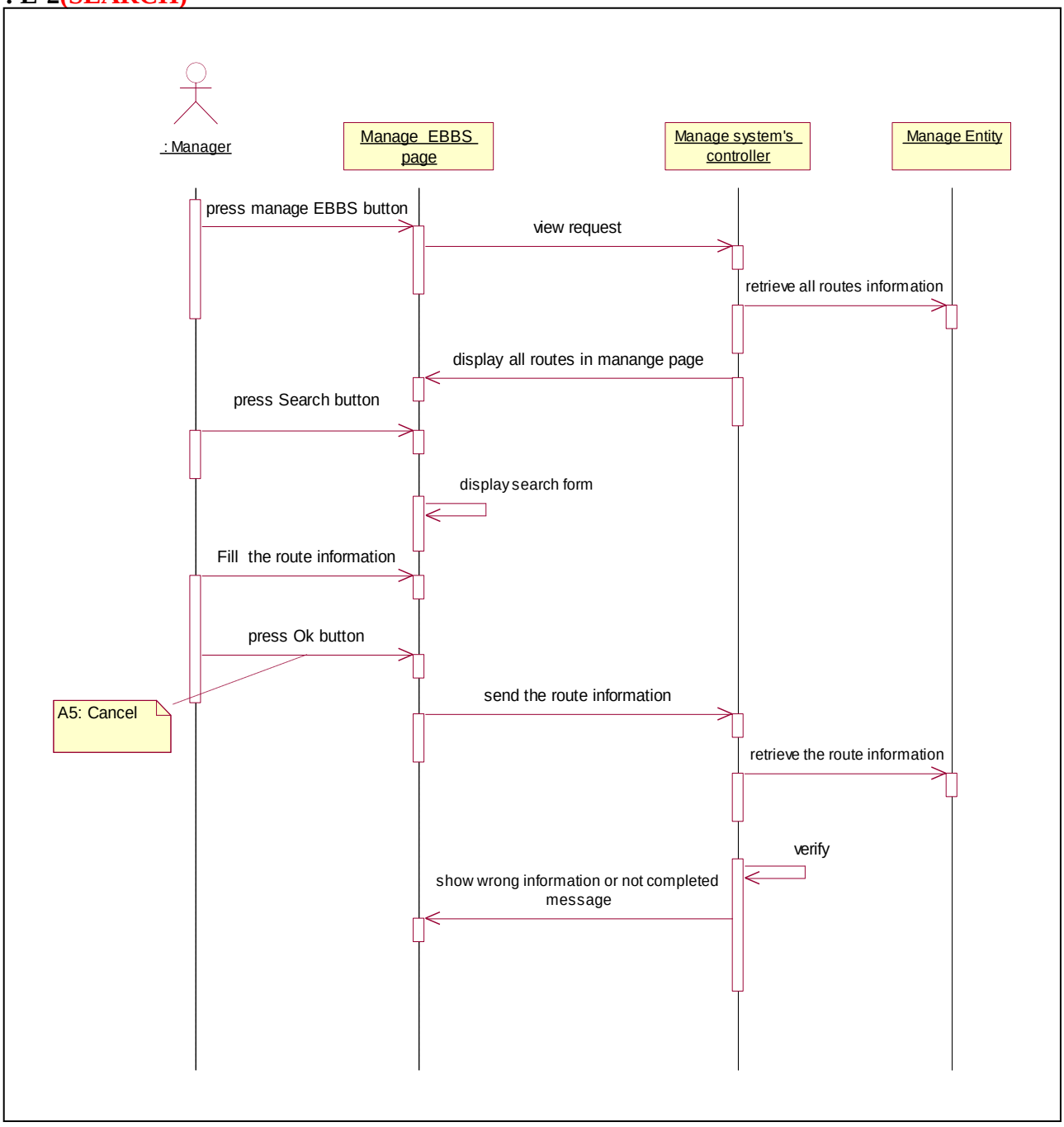
14.6.7-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-2(SEARCH)



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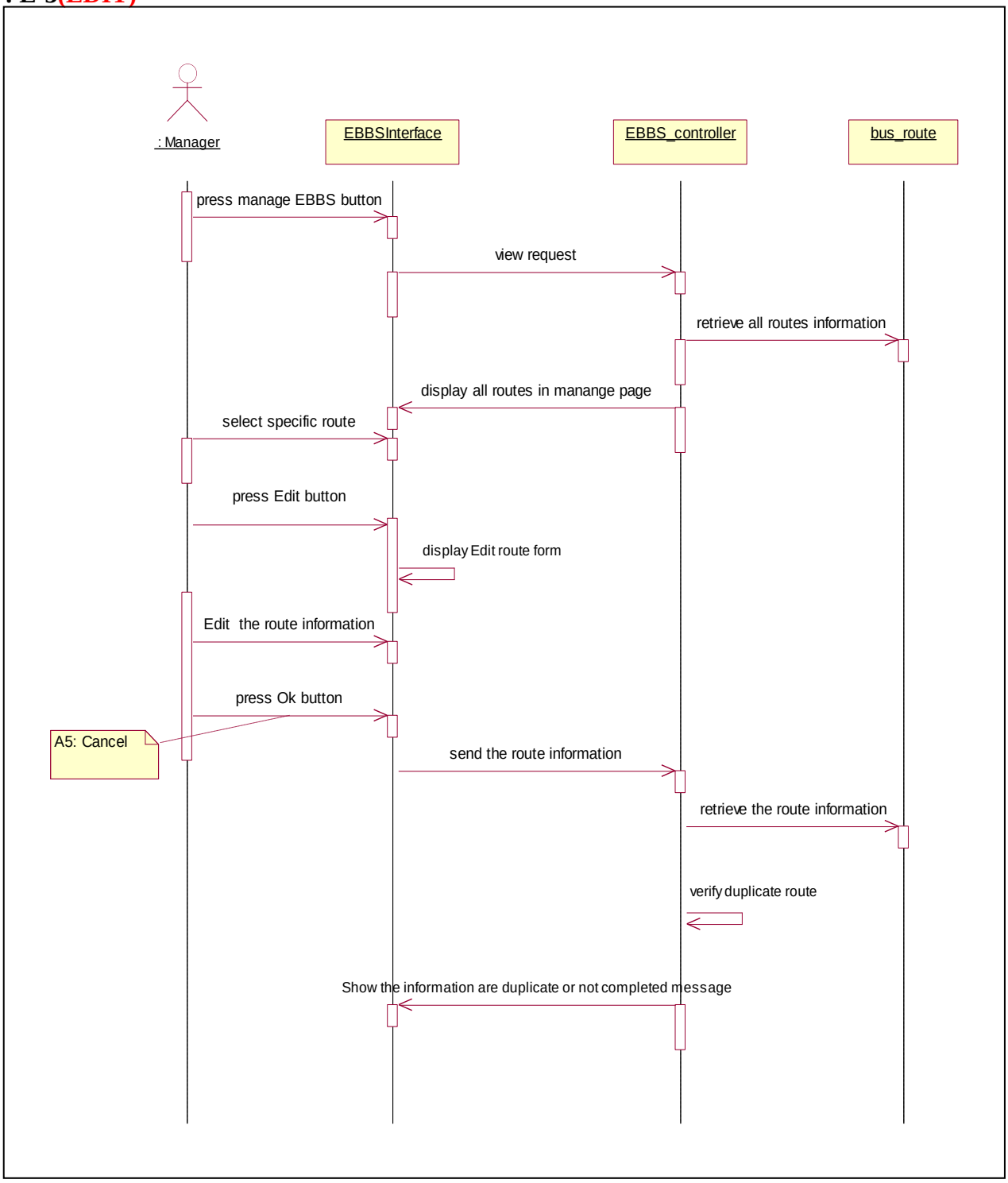
14.6.8-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-3(EDIT)



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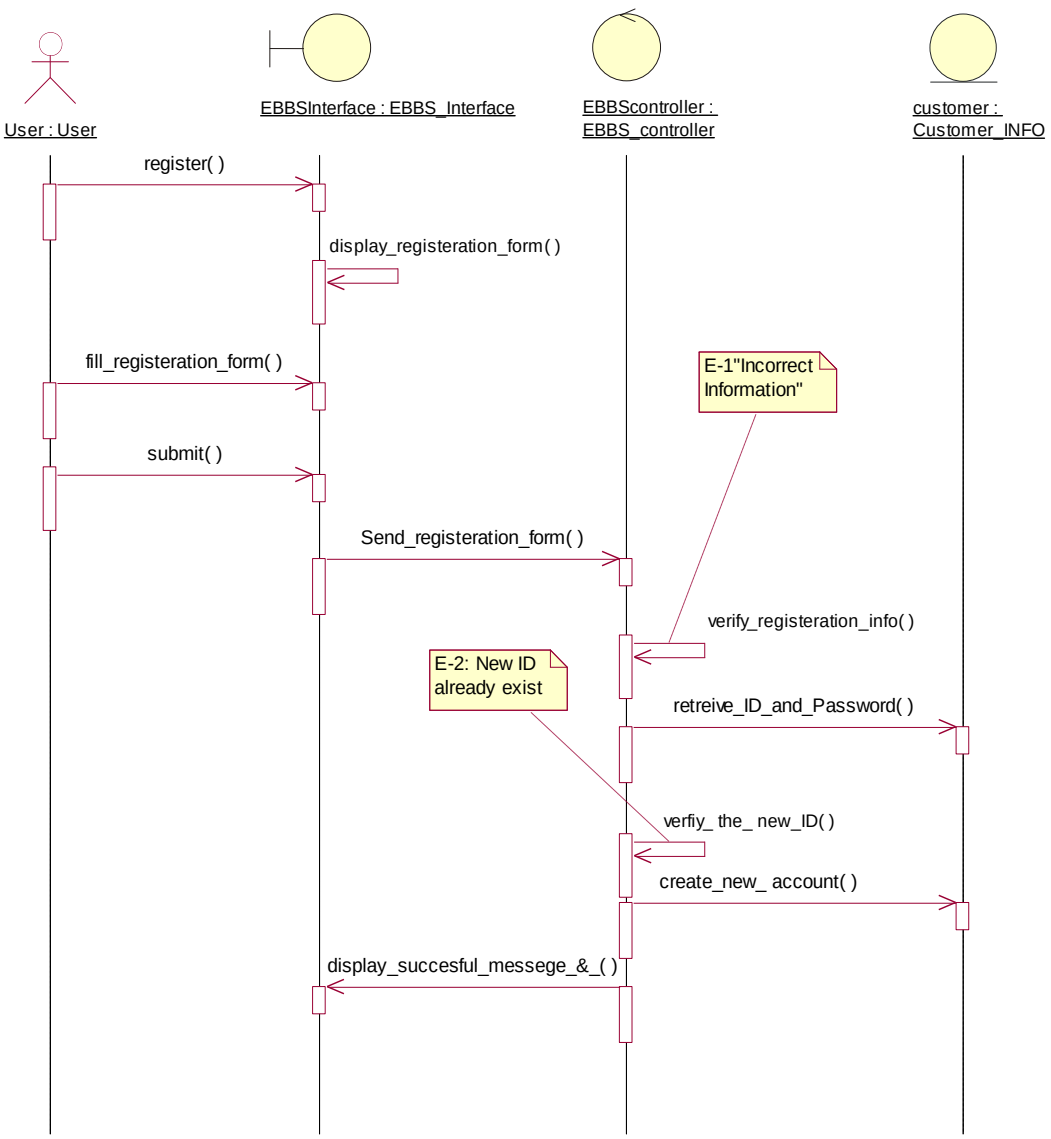
15.0- DESIGN SEQUENCE DIAGRAM

15.1 SEQUENCE DIAGRAM FOR USE CASE REGITER MEMBER : BASIC FLOW



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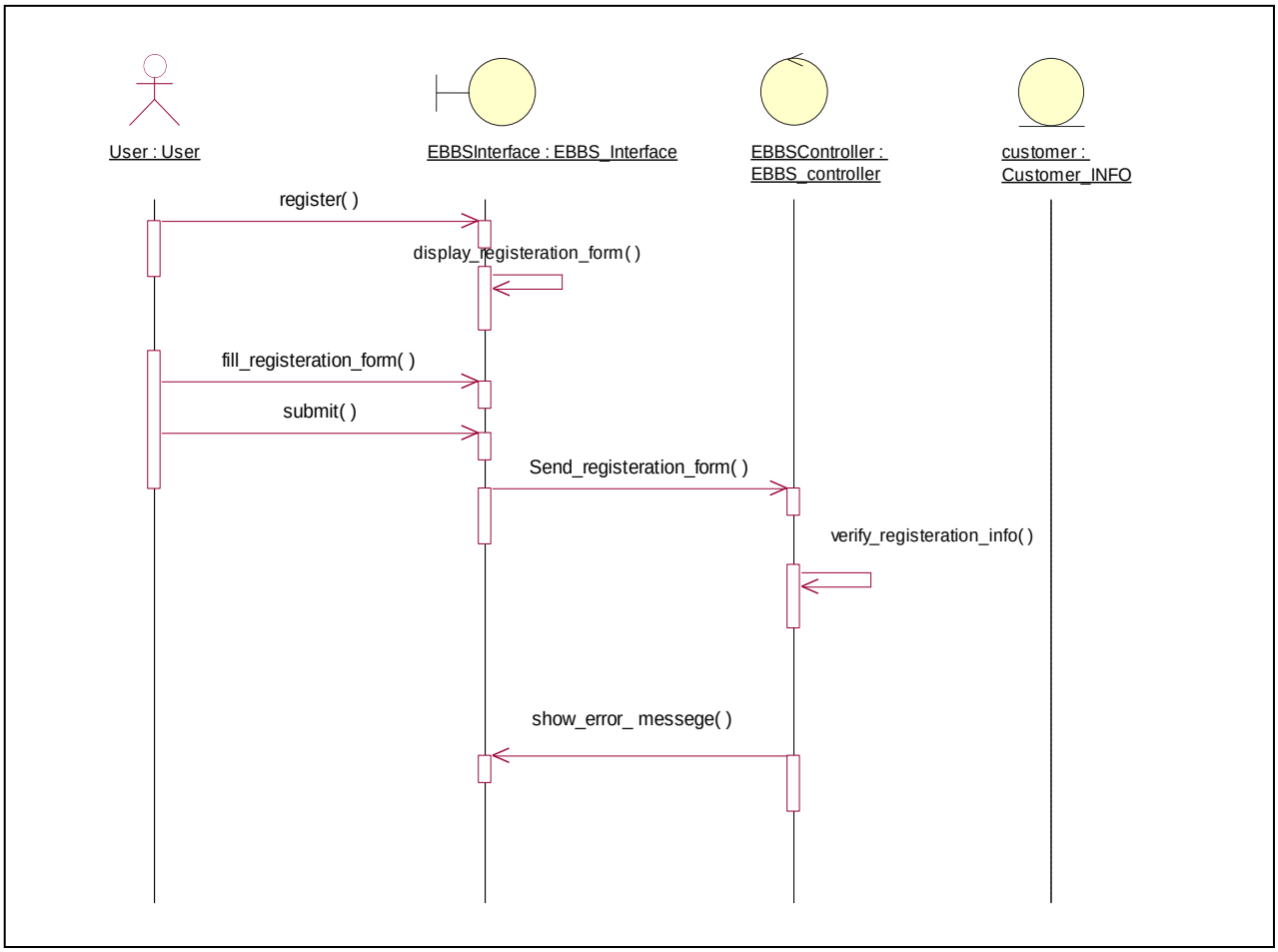
15.1.1- DESIGN SEQUENCE DIAGRAM FOR USE CASE REGITER MEMBER: EXCEPTIONAL FLOW E-1



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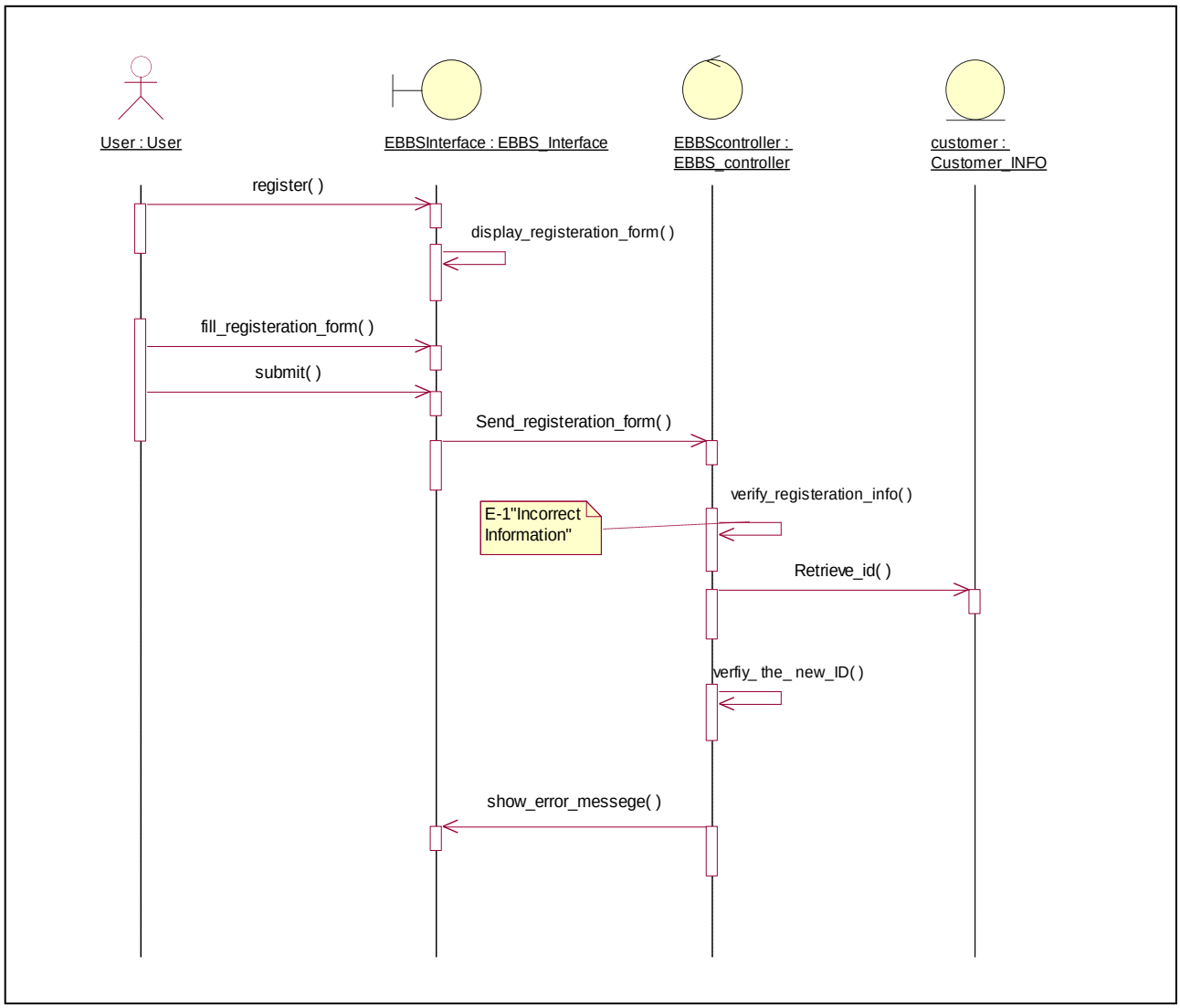
15.1.2- DESIGN SEQUENCE DIAGRAM FOR USE CASE REGITER MEMBER: EXCEPTIONAL FLOW E-2



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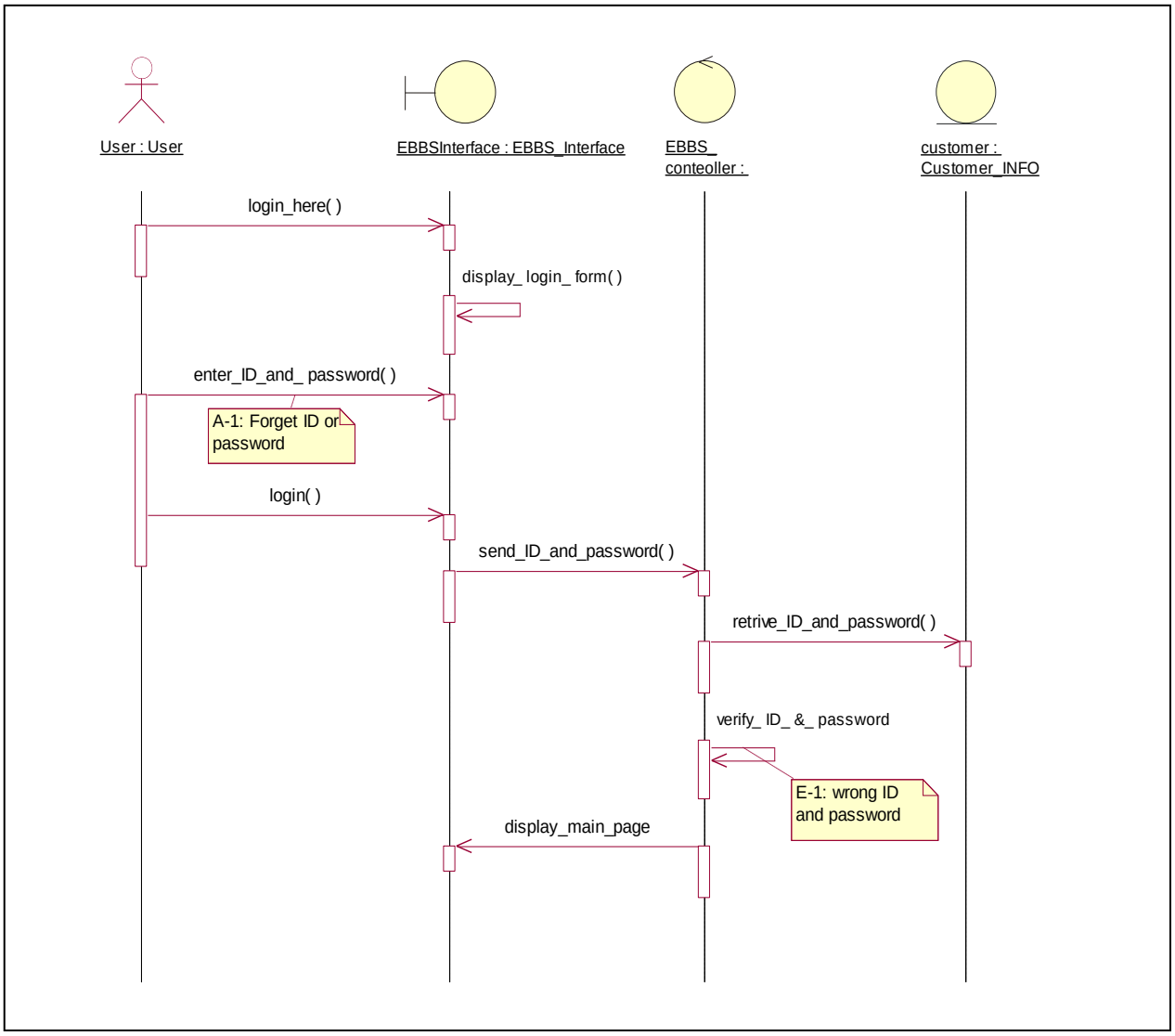
15.2-DESIGN SEQUENCE DIAGRAM FOR USE CASE LOGIN : BASIC FLOW



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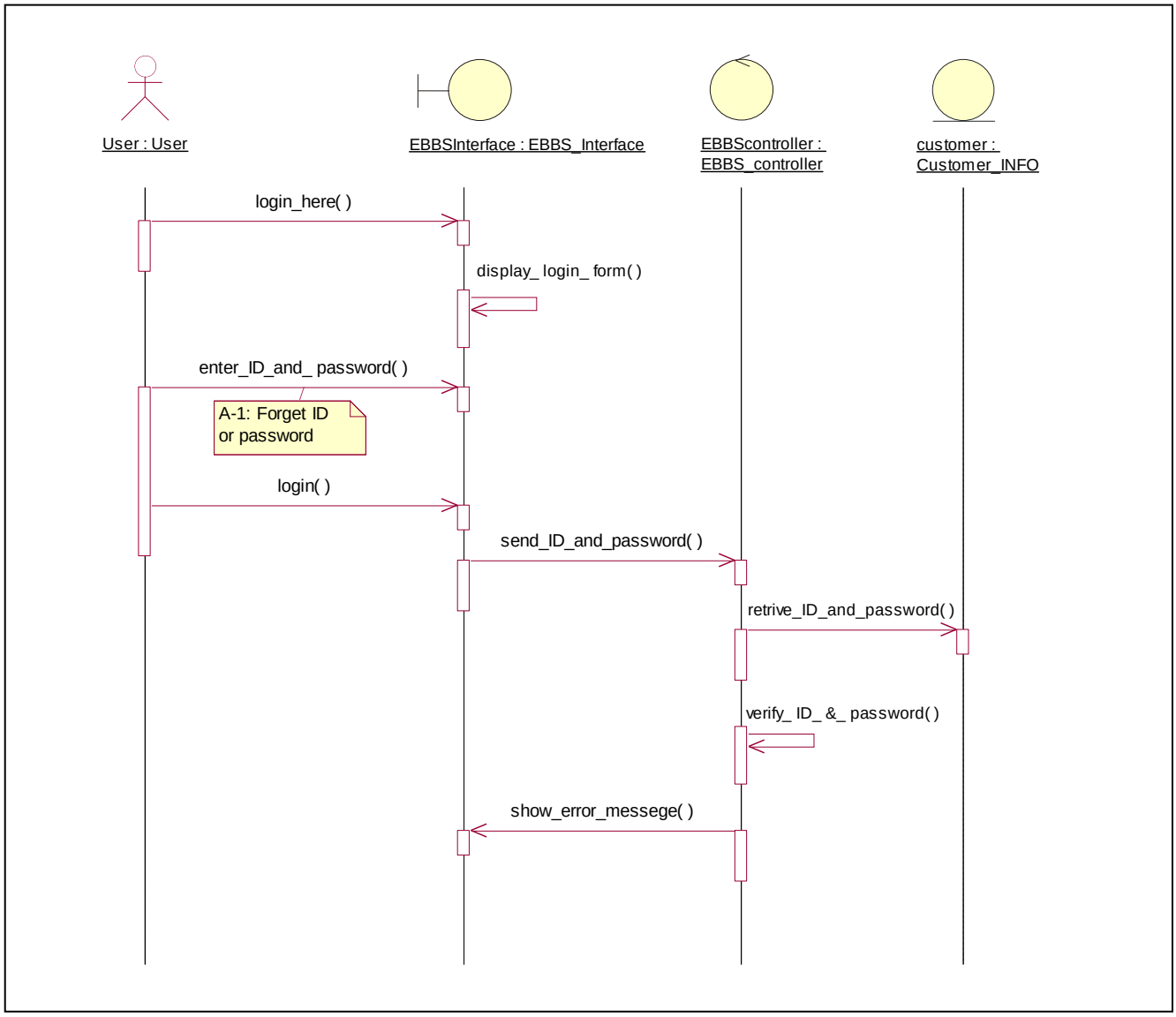
15.2.1-DESIGN SEQUENCE DIAGRAM FOR USE CASE LOGIN : EXCEPTIONAL FLOW E-1



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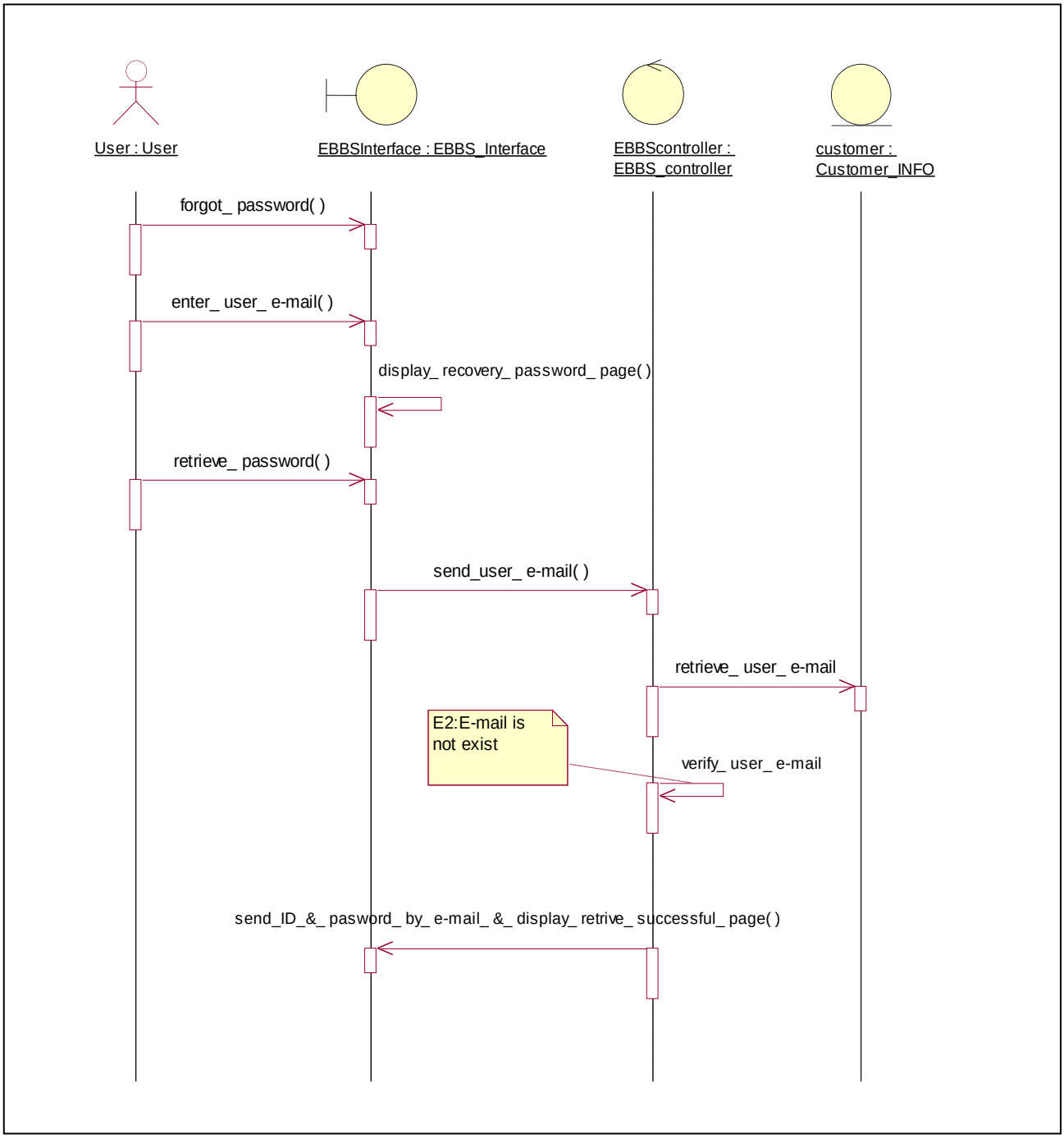
15.2.2-DESIGN SEQUENCE DIAGRAM FOR USE CASE LOGIN : ALTERNATIVE FLOW A-1



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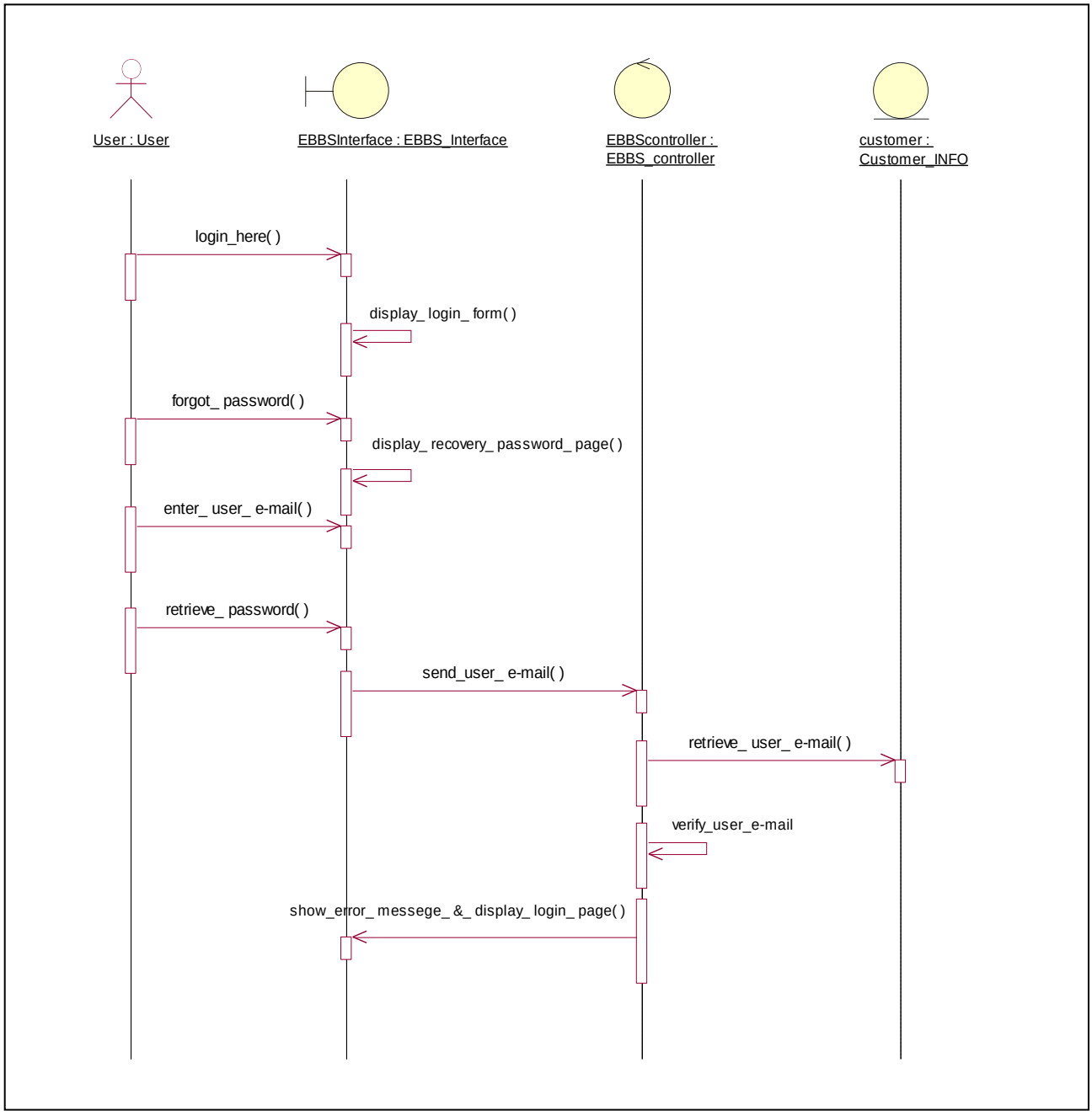
15.2.3- DESIGN SEQUENCE DIAGRAM FOR USE CASE LOGIN : EXCEPTIONAL FLOW A-1:E-2



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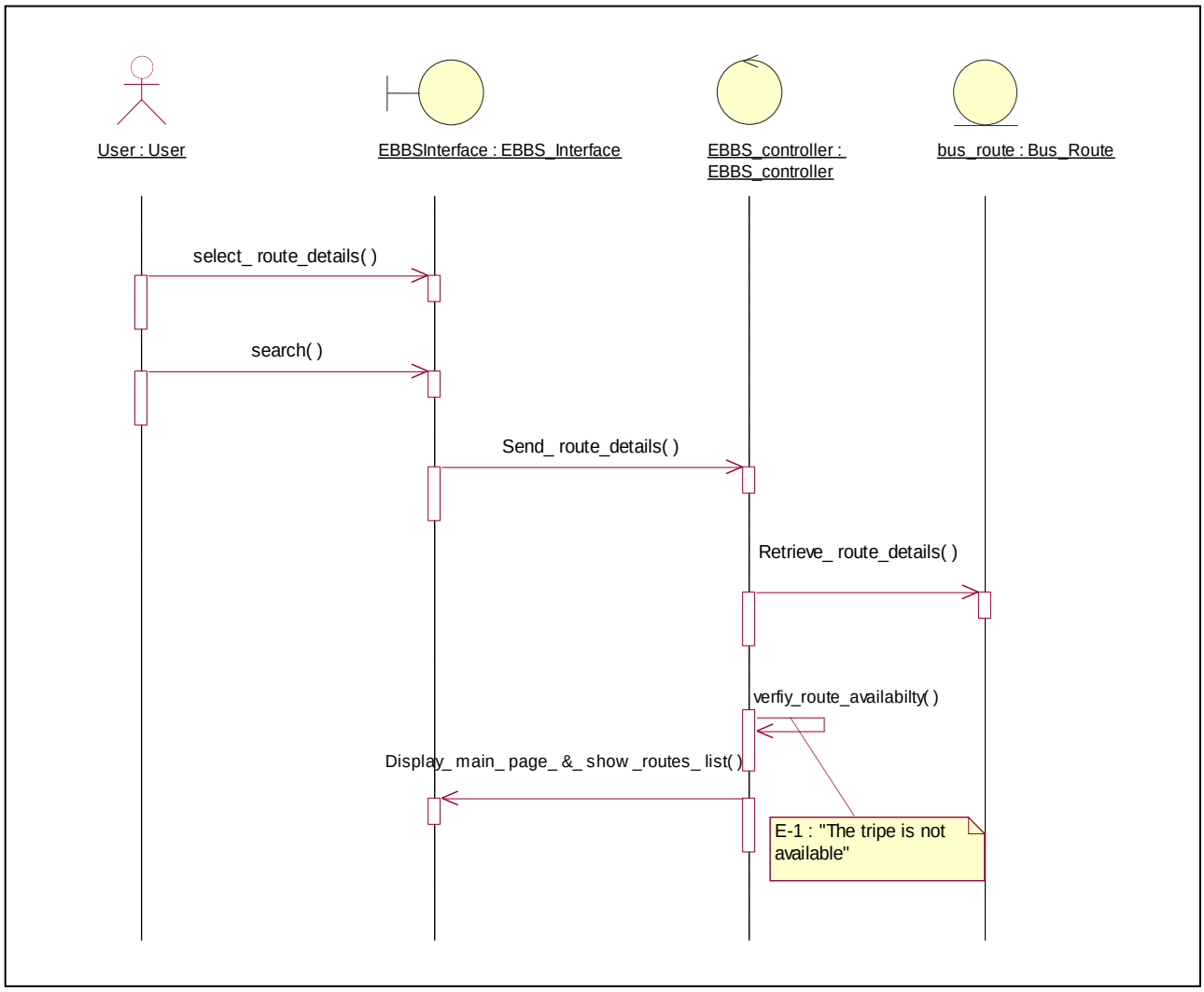
15.3-DESIGN SEQUENCE DIAGRAM FOR USE CASE SEARCH DESTINATION : BASIC FLOW



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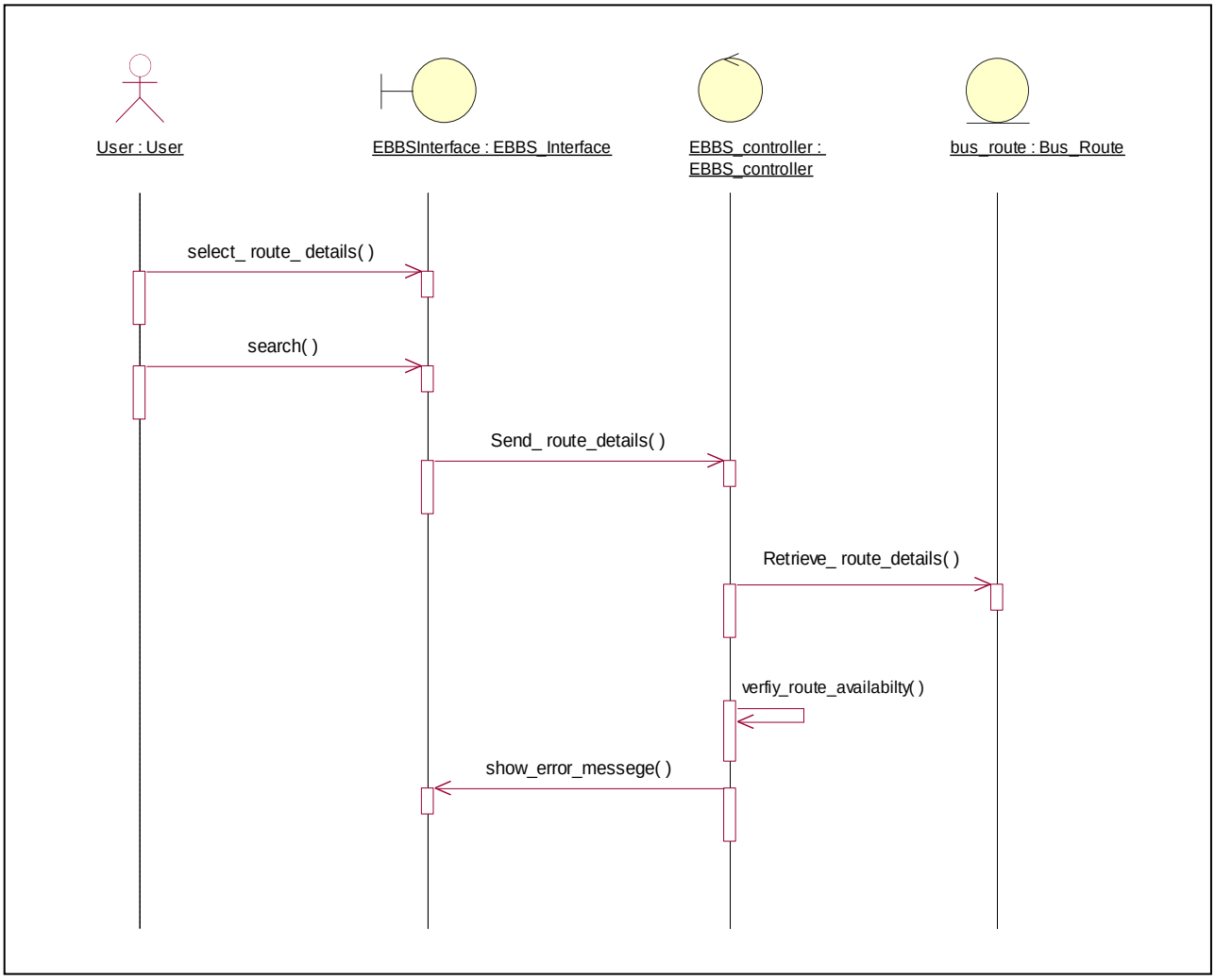
15.3.1- DESIGN SEQUENCE DIAGRAM FOR USE CASE SEARCH DESTINATION: EXCEPTIONAL FLOW E-1



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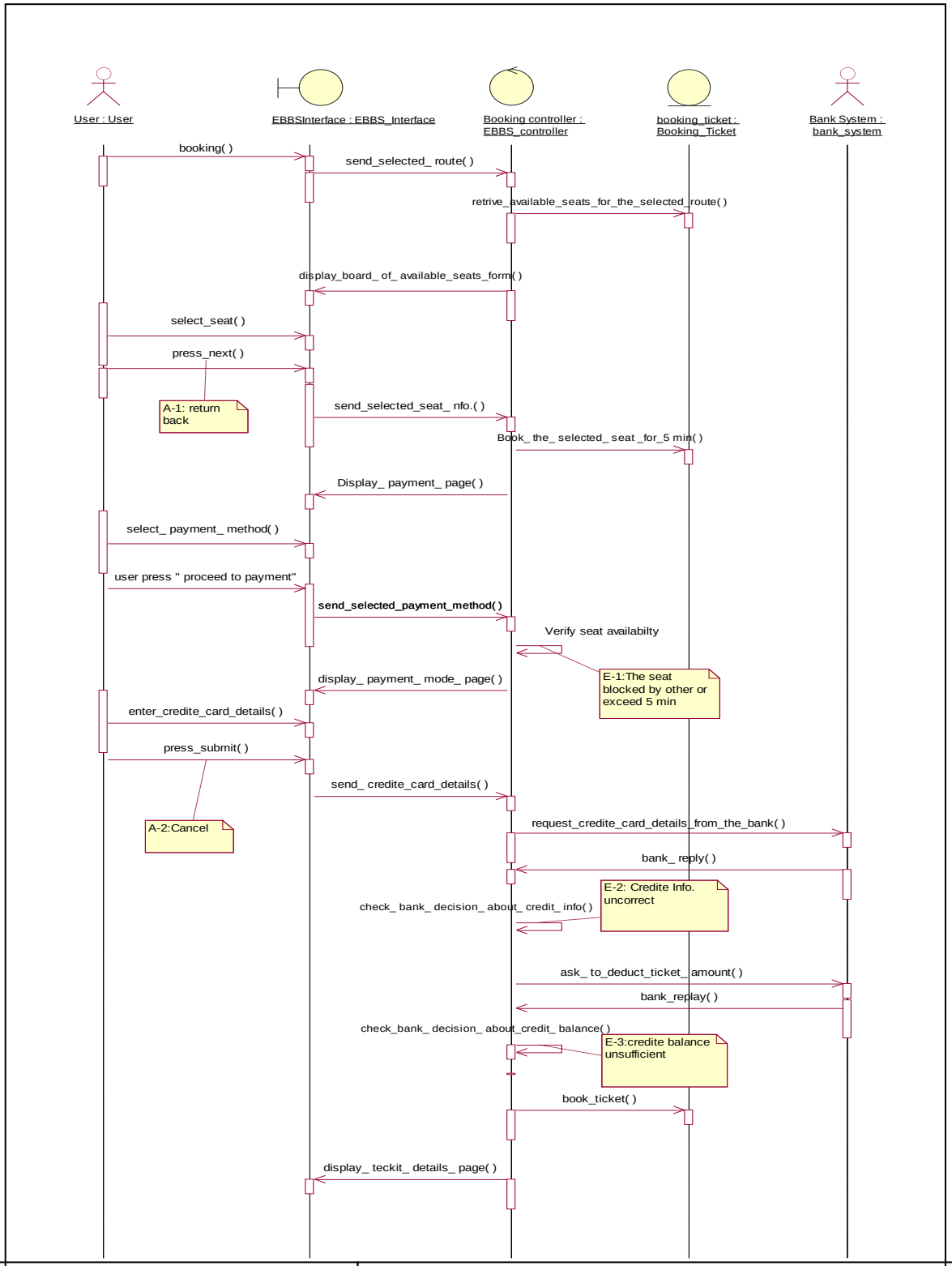
15.4- DESIGN SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET: BASIC FLOW



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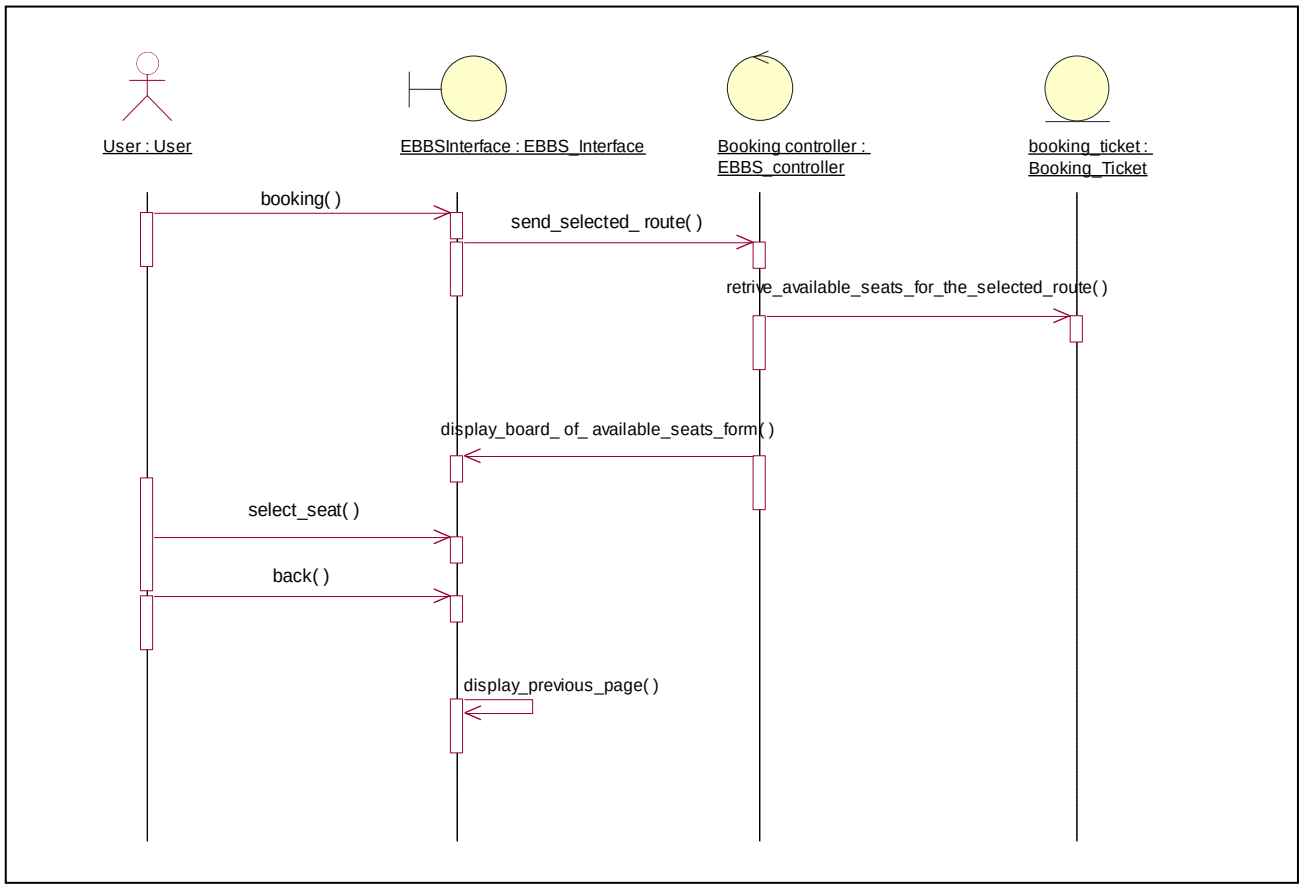
15.4.1-DESIGN SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : ALTERNATIVE FLOW A-1



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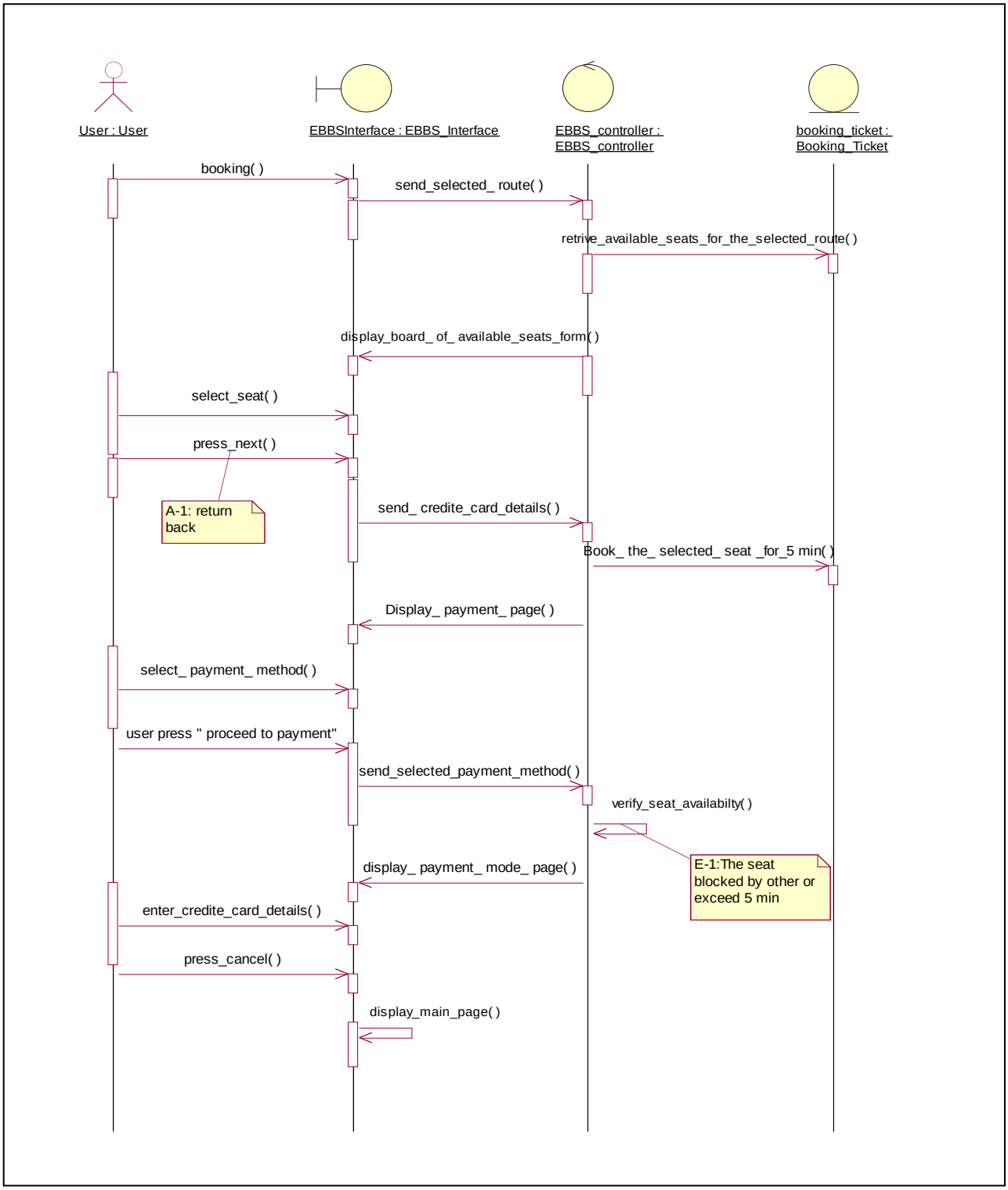
15.4.2- DESIGN SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : ALTERNATIVE FLOW A-2



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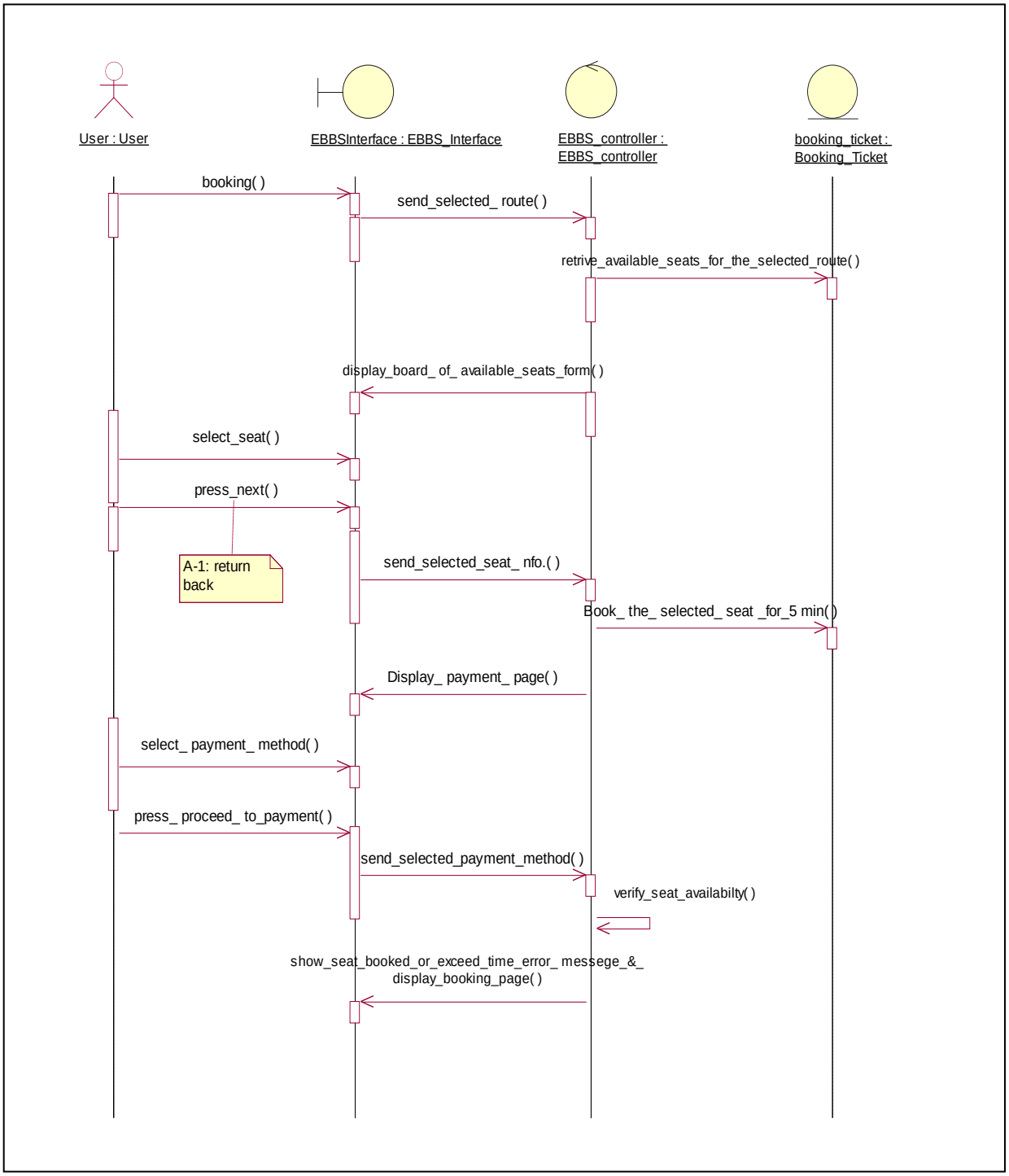
15.4.3-SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET: EXCEPTIONAL FLOW E-1



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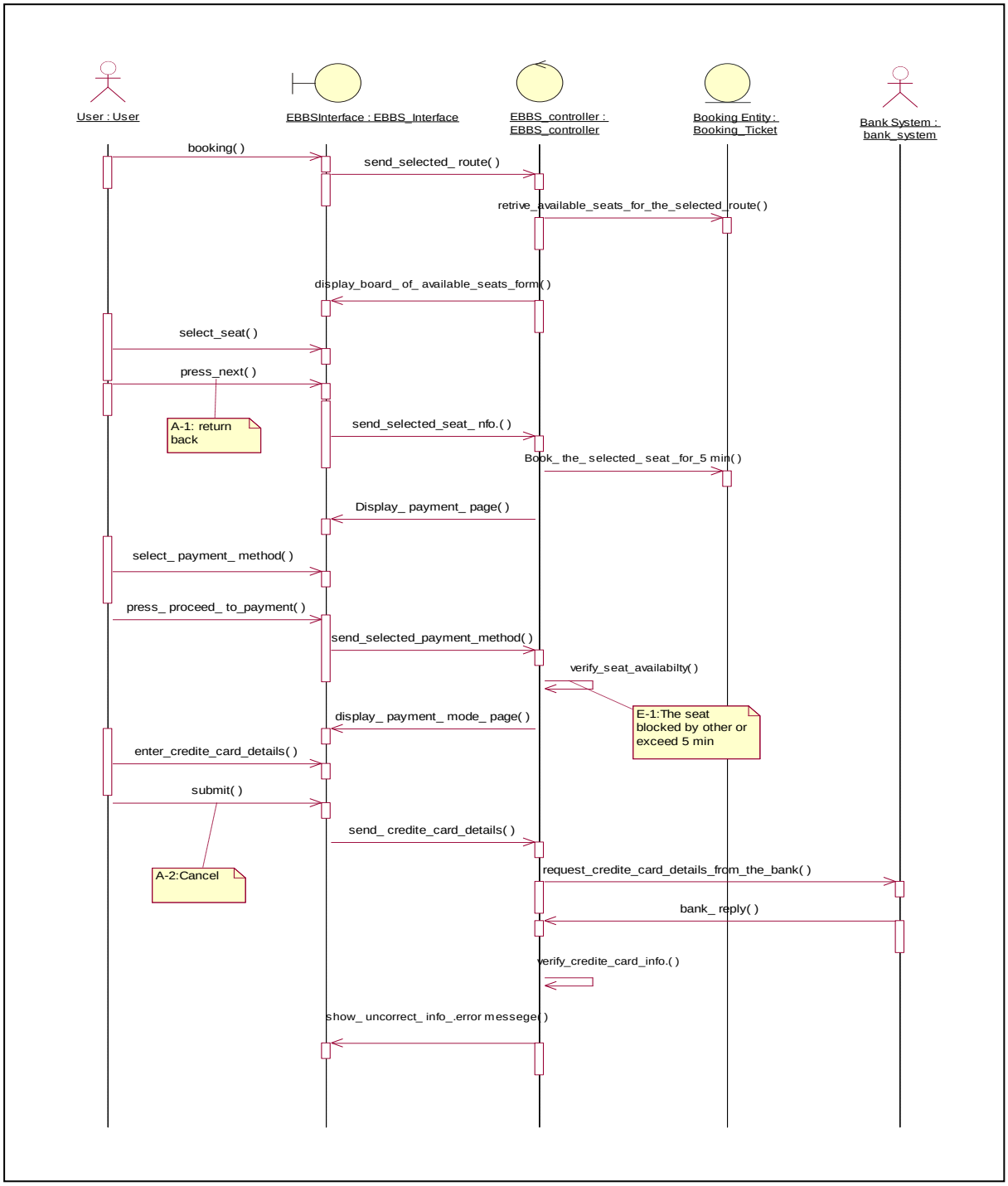
15.4.4-DESIGN SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : EXCEPTIONAL FLOW E2



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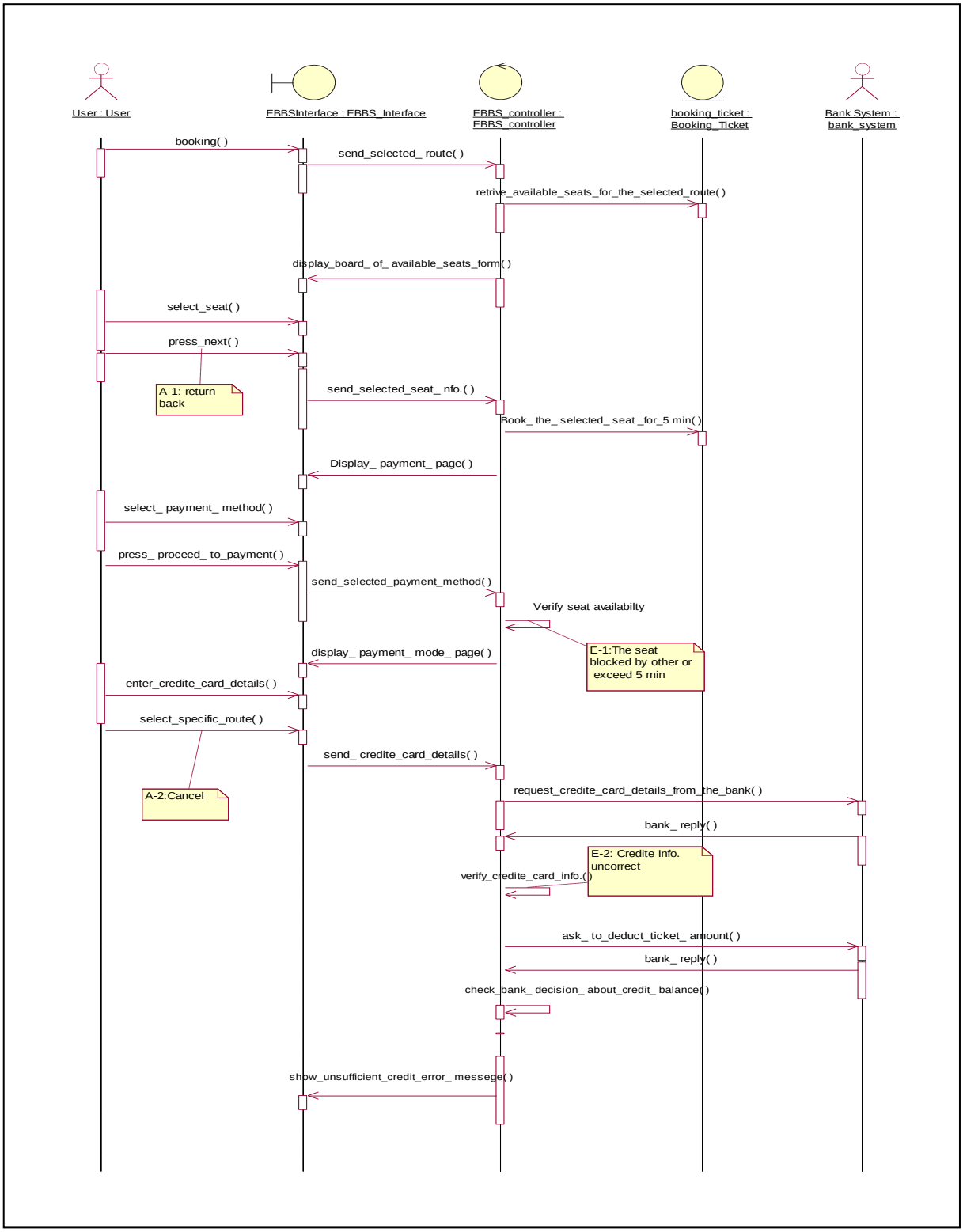
15.4.5-DESIGN SEQUENCE DIAGRAM FOR USE CASE BOOKING TICKET : EXCEPTIONAL FLOW E-3



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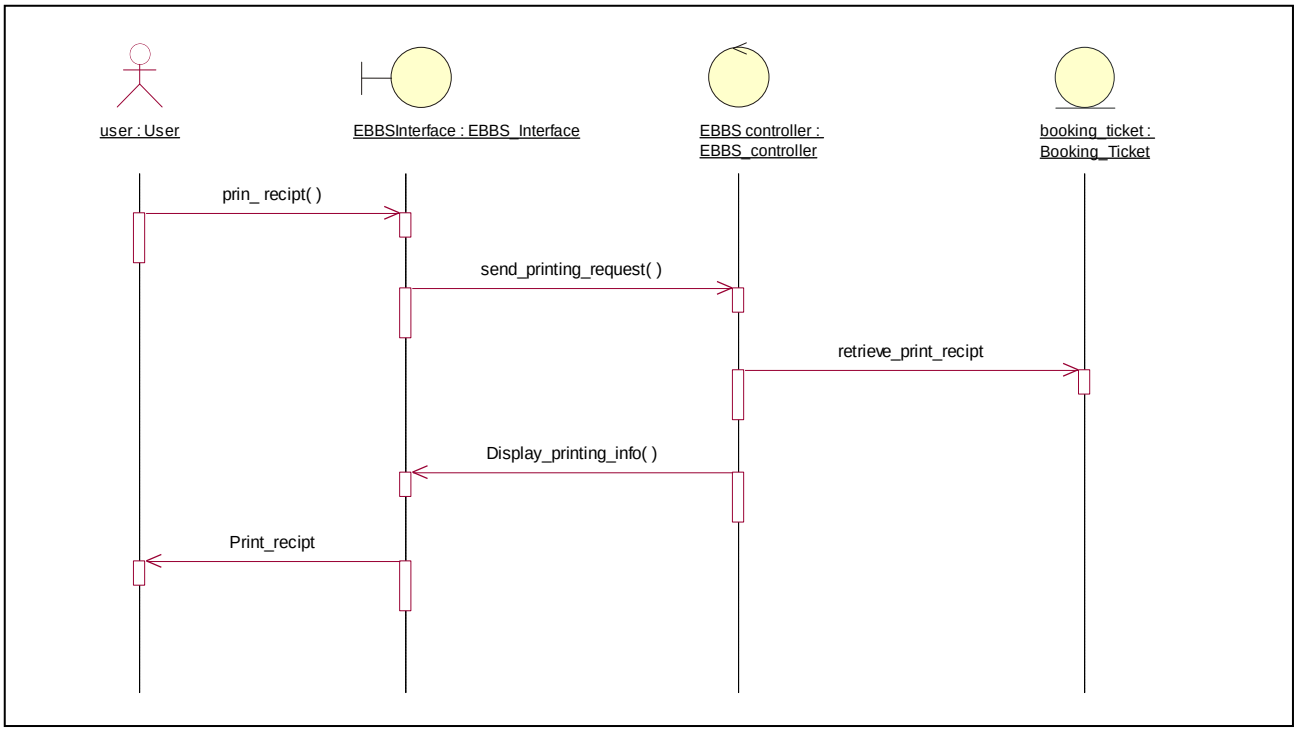
15.5-DESIGN SEQUENCE DIAGRAM FOR USE CASE PRINT RECIEPT : BASIC FLOW



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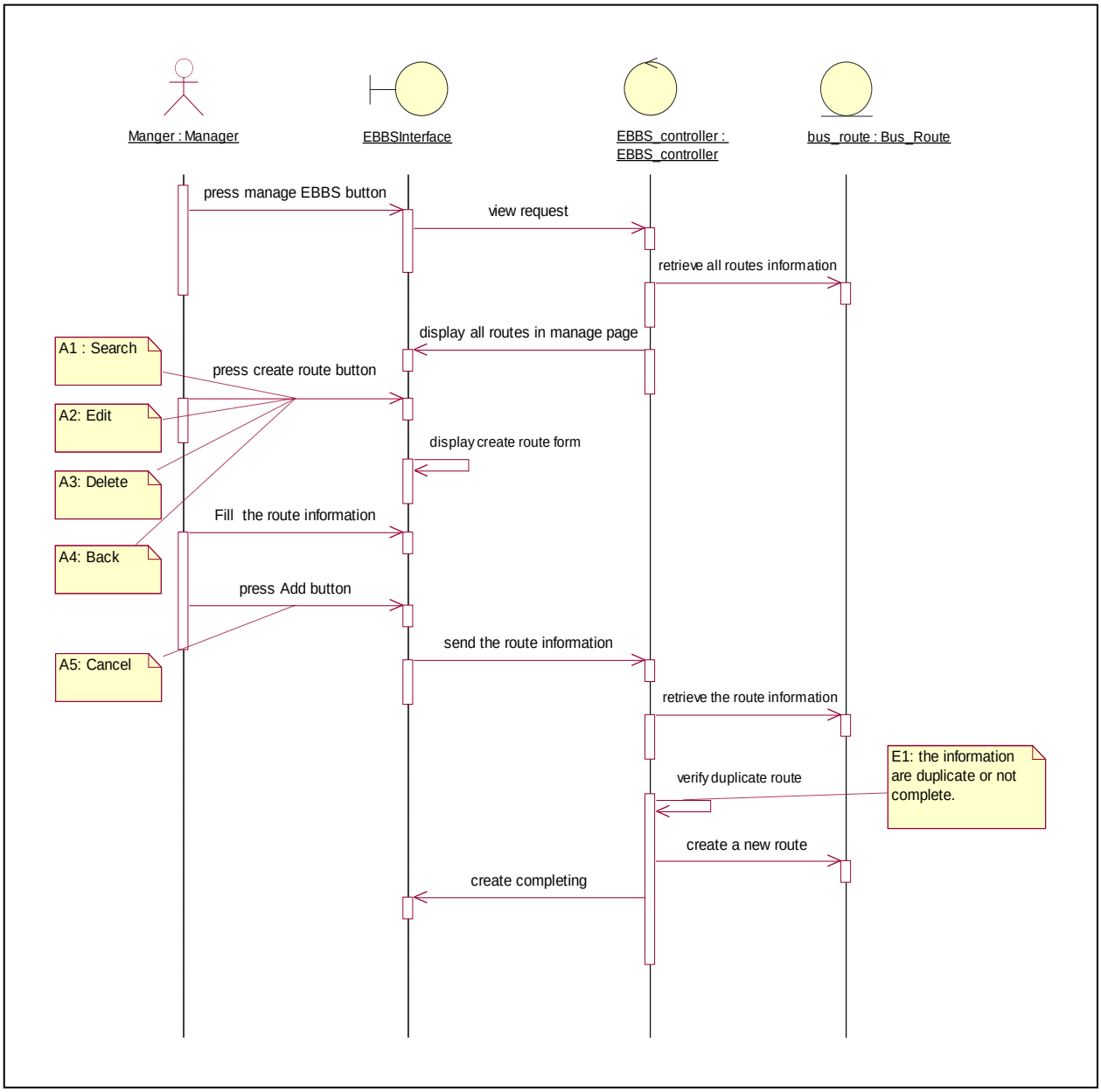
15.6-DESIGN SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : BASIC FLOW (CREATE)



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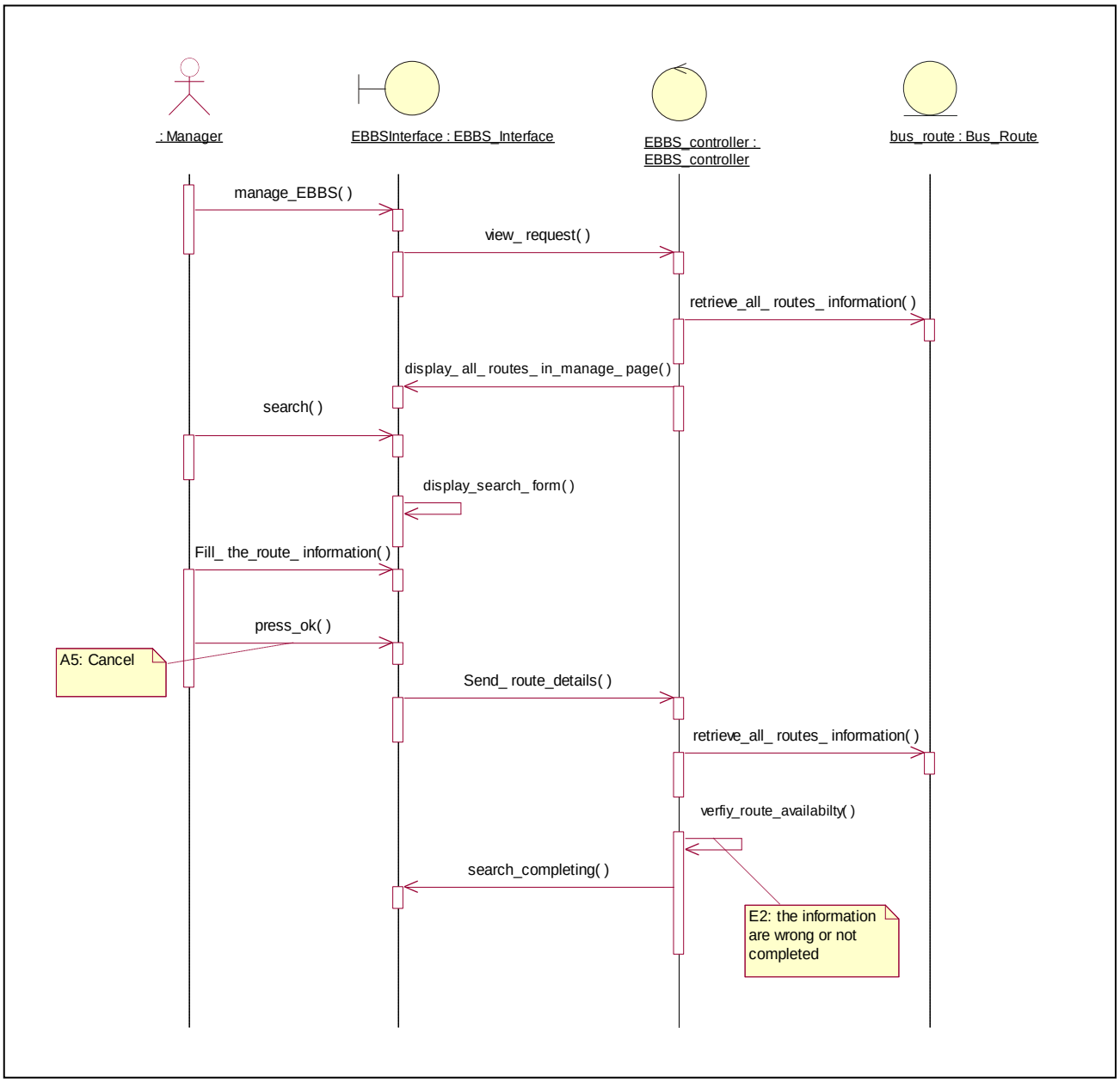
15.6.1-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-1(SEARCH)



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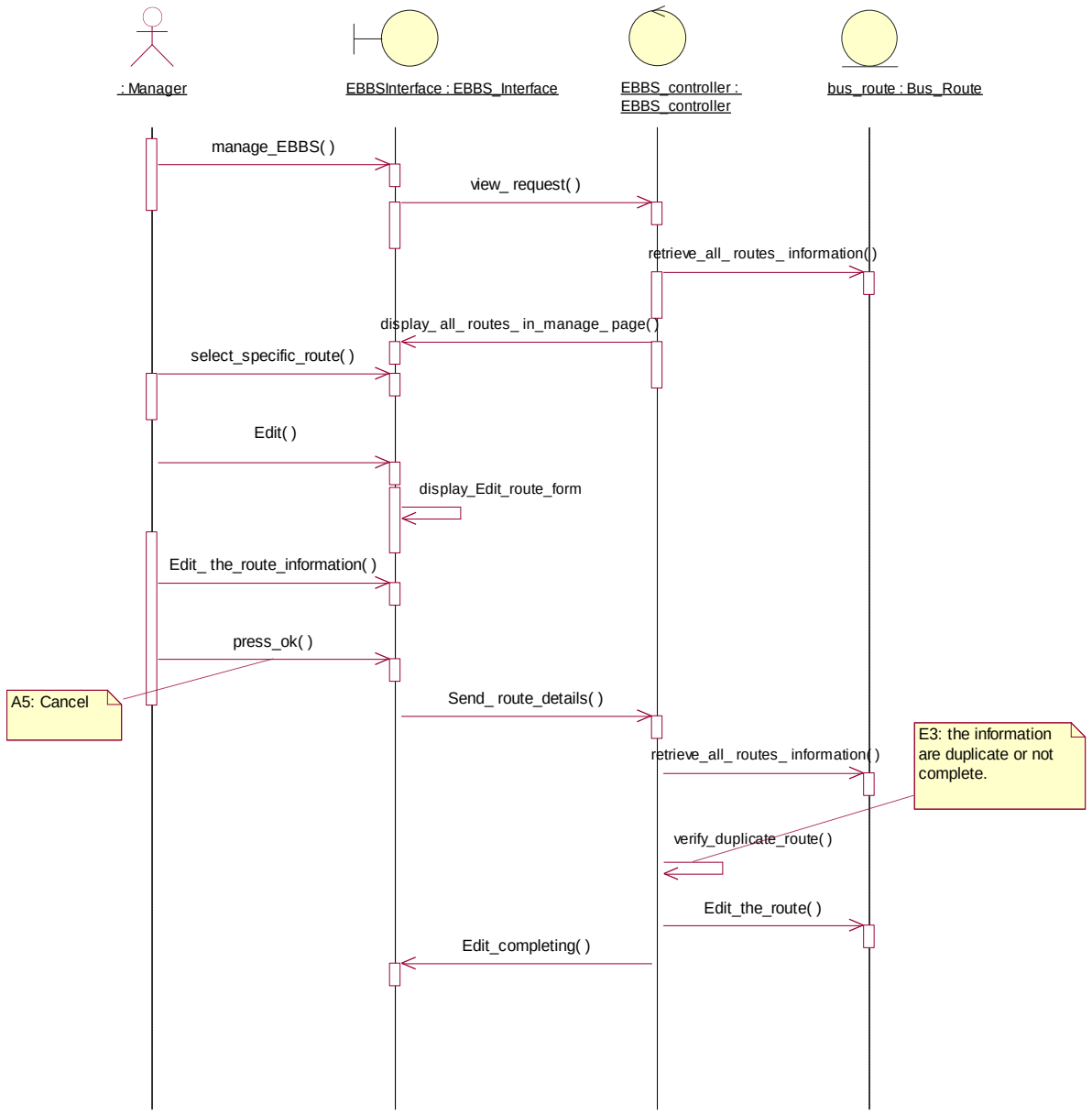
15.6.2-DESIGN SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-2(EDIT)



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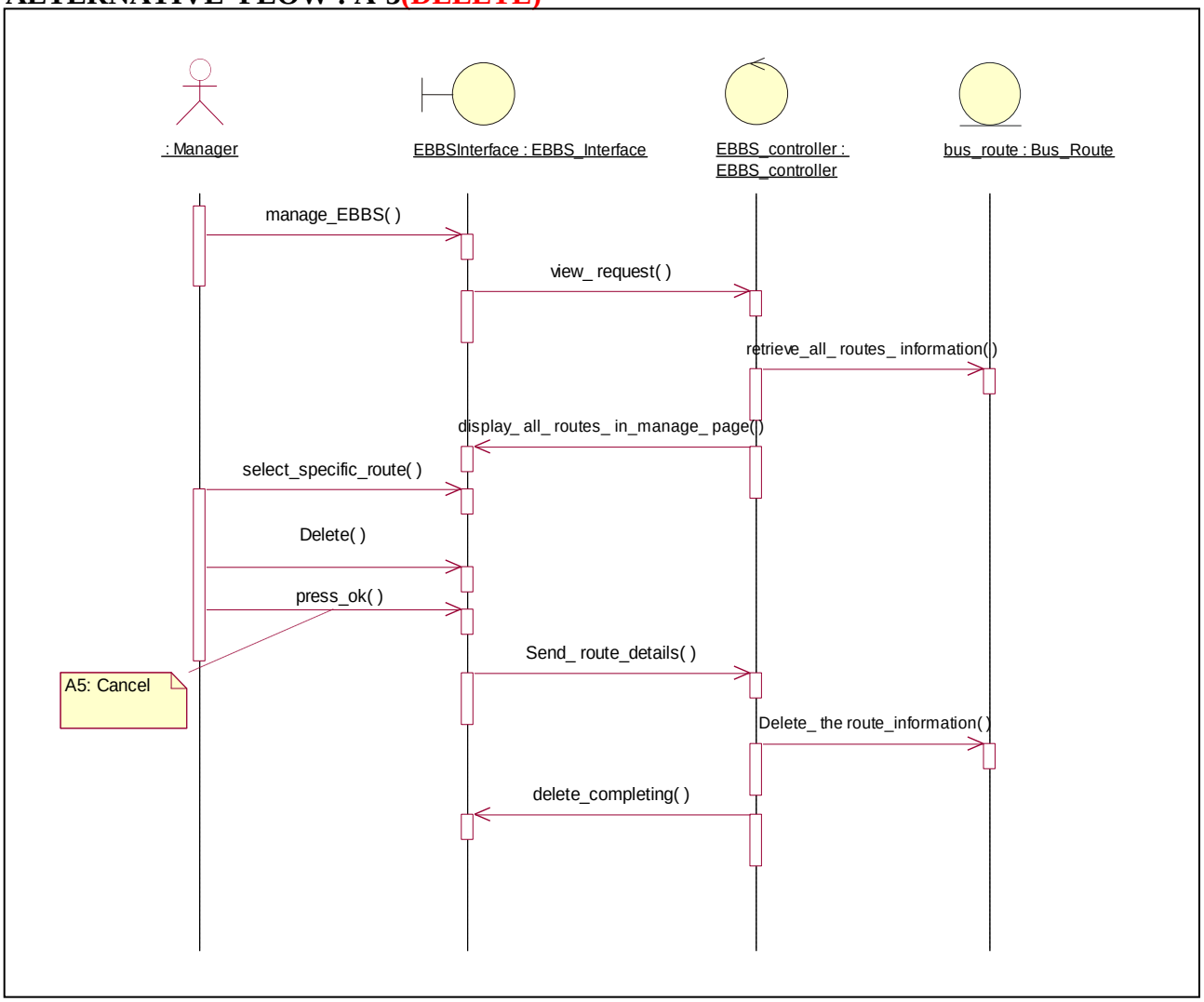
15.6.3- DESIGN SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-3(DELETE)



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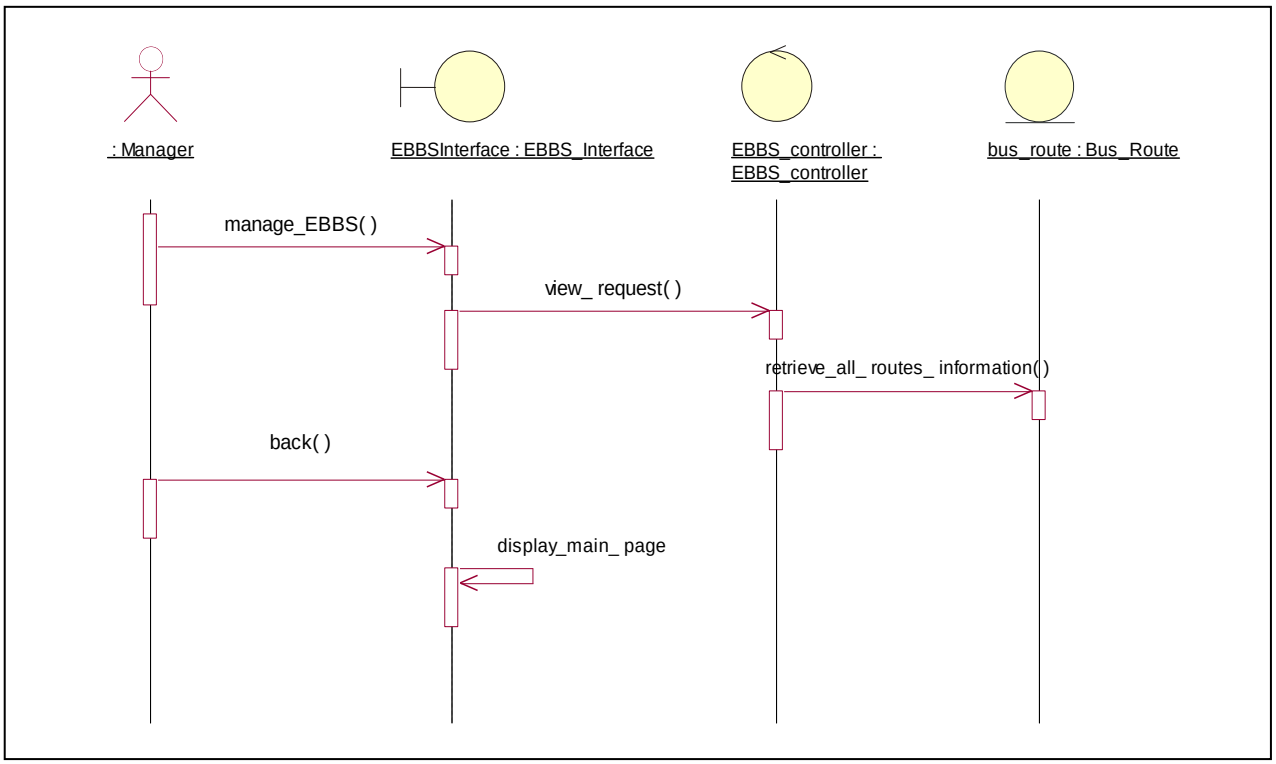
15.6.4-DESIGN SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-4(BACK)



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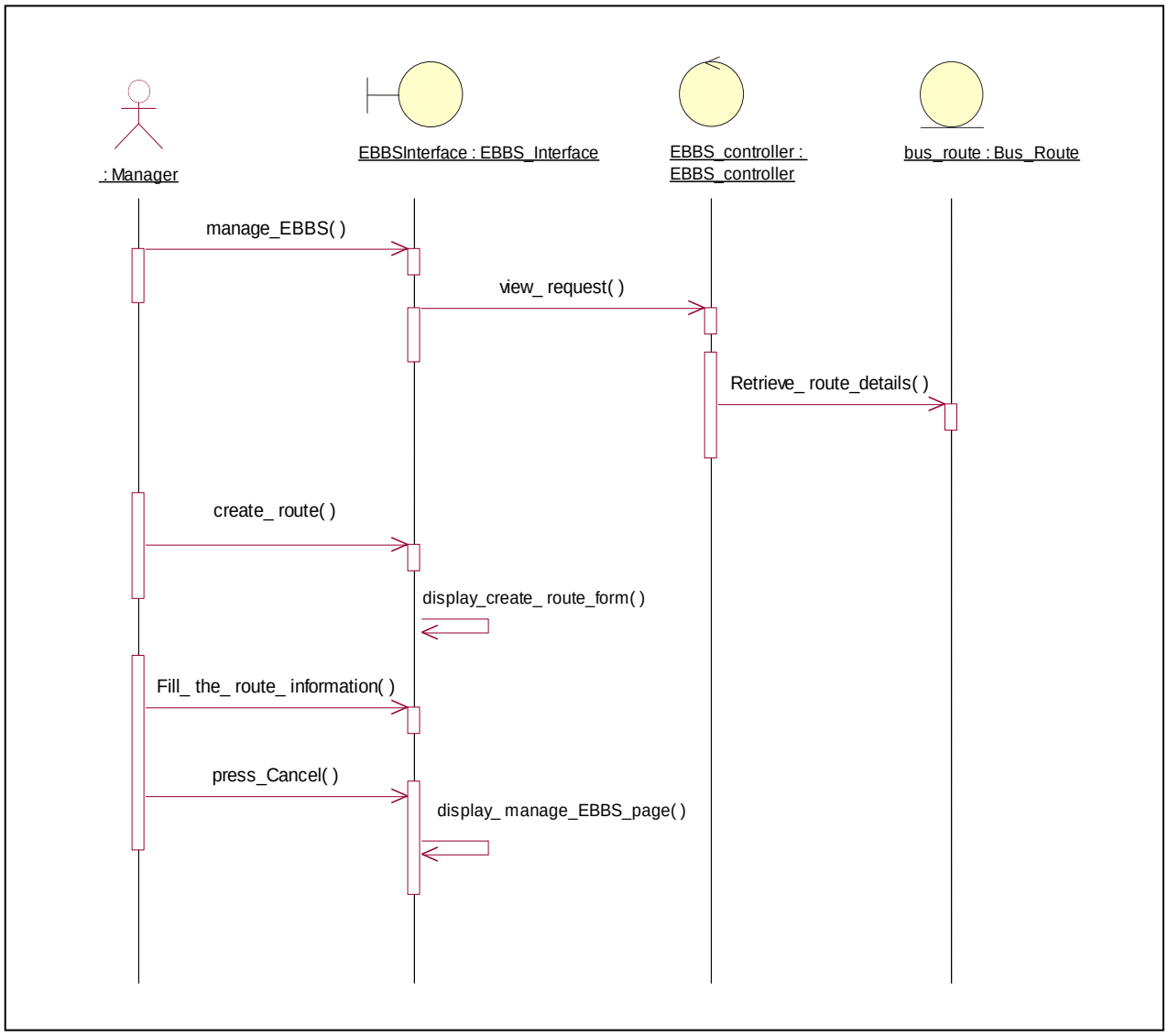
15.6.5- DESIGN SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-5(CANCEL)



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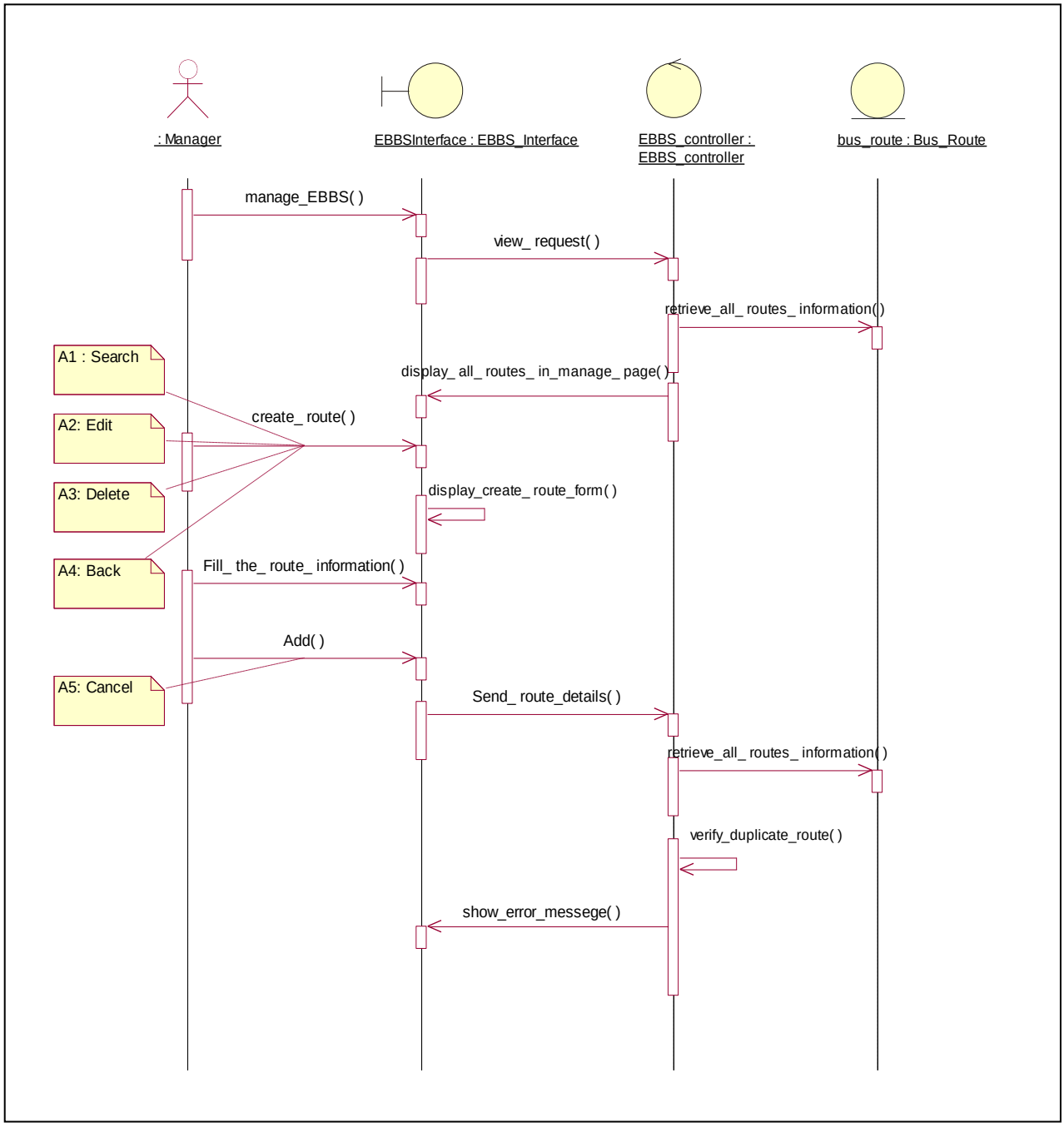
15.6.6-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-1(CREATE)



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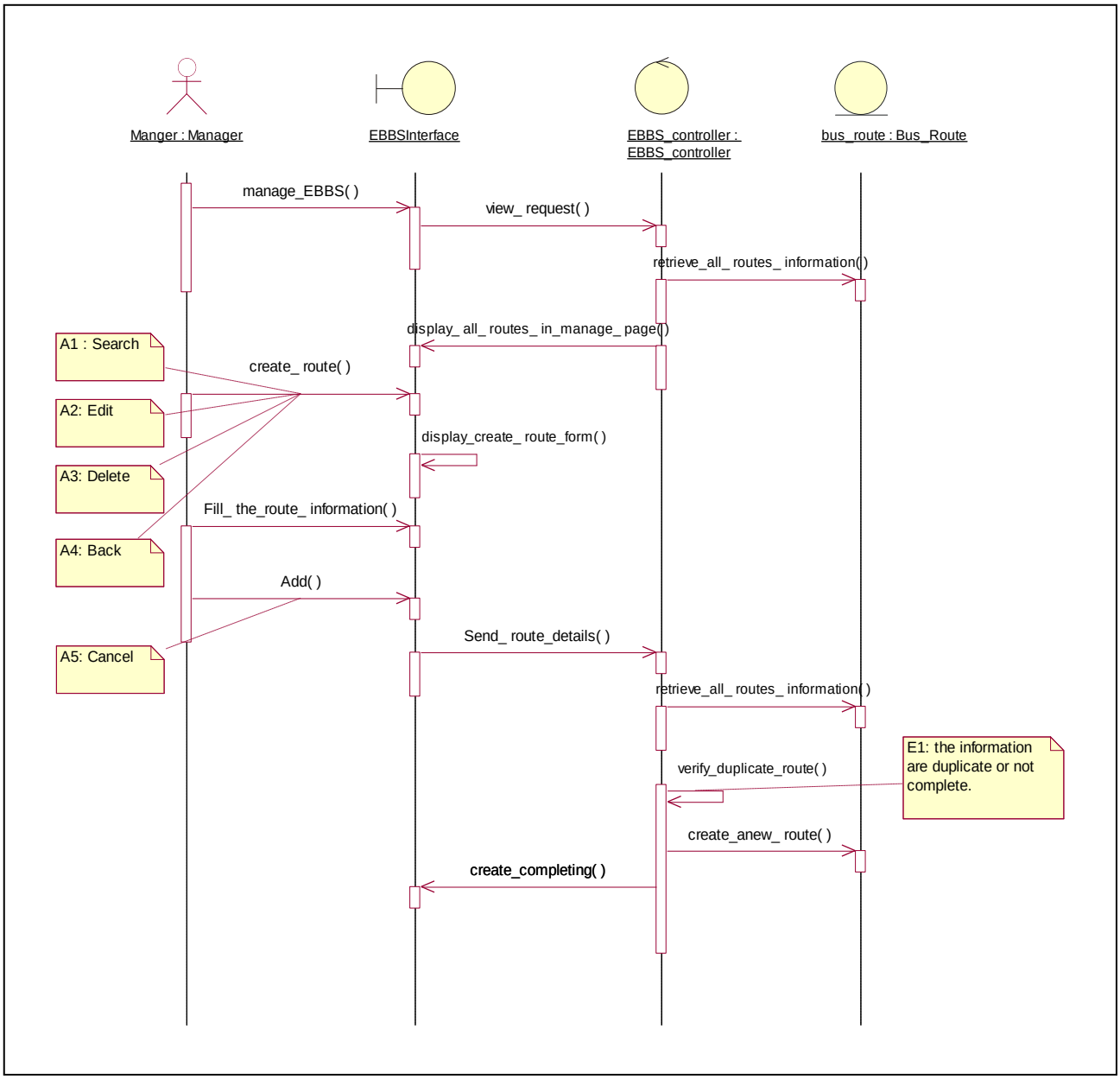
15.6.7-DESIGN SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-2(SEARCH)



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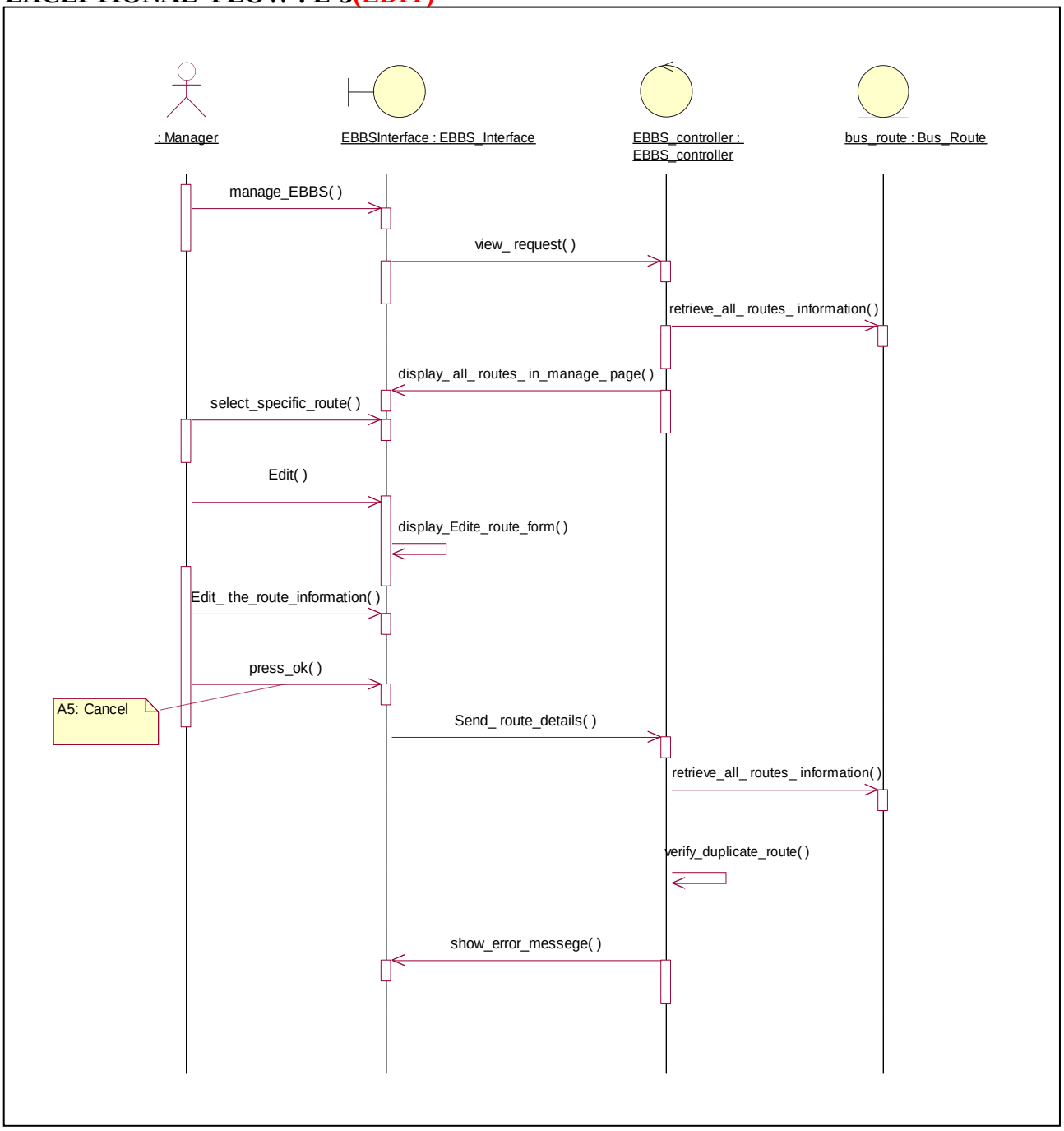
15.6.8-DESIGN SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-3(EDIT)



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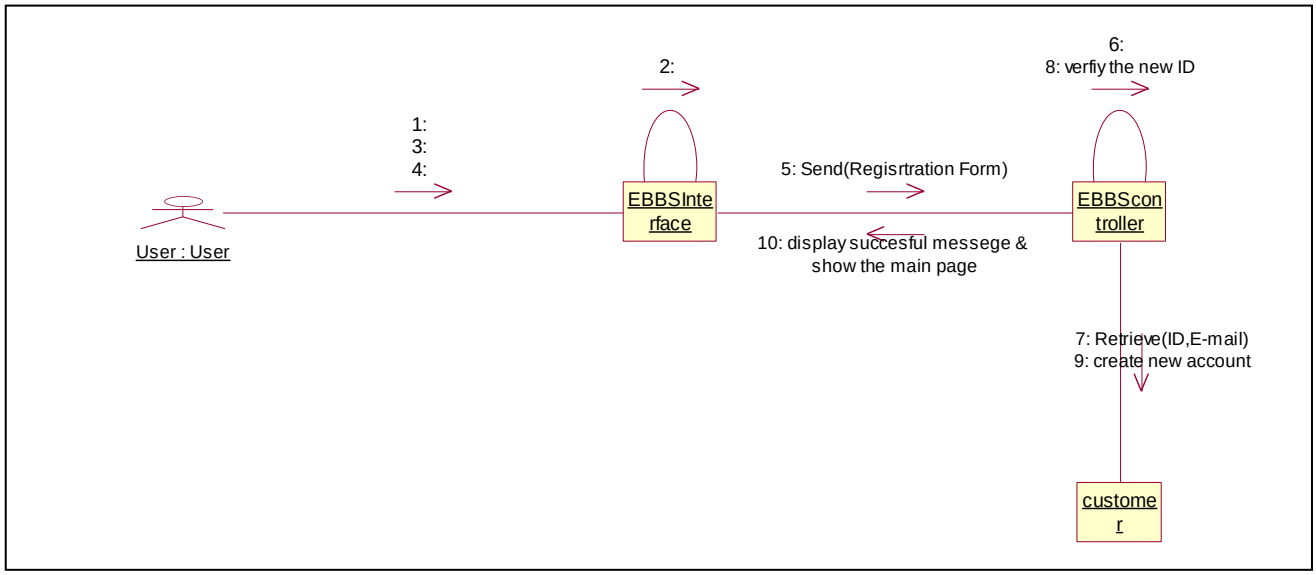
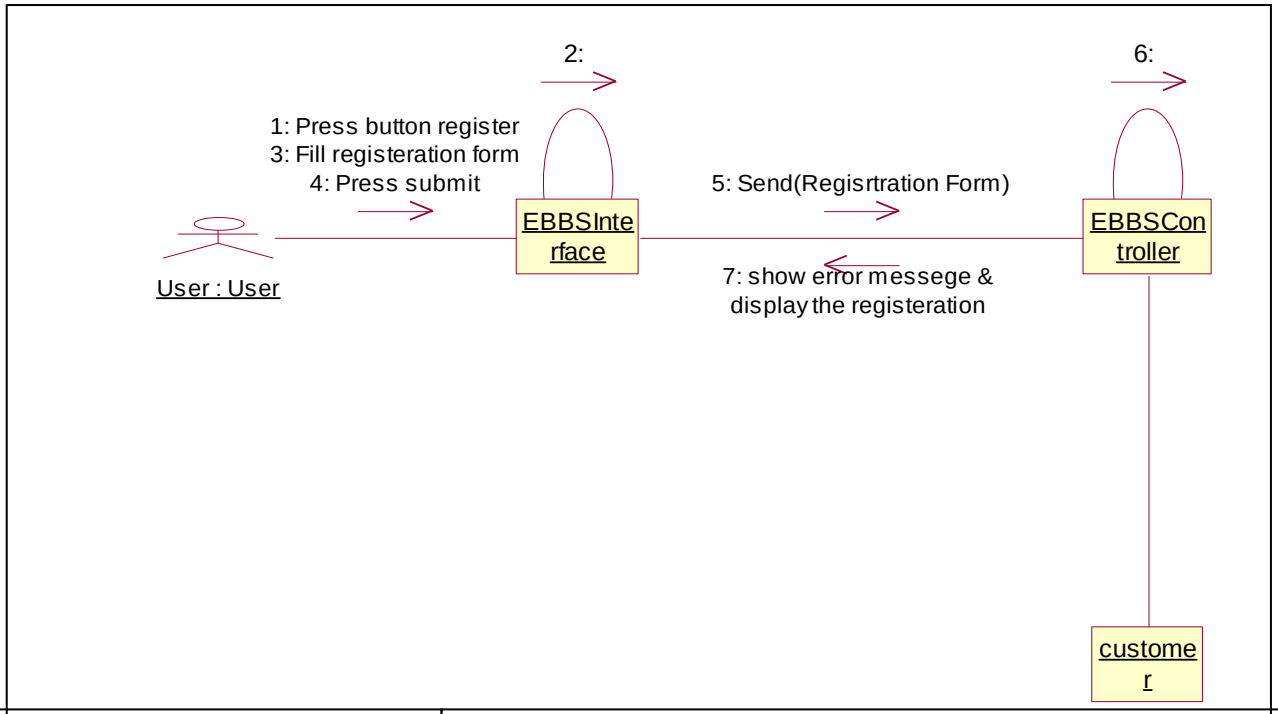
16.0-COLLABORATION DIAGRAM
16.1 COLLABORATION DIAGRAM FOR USE CASE REGITER MEMBER : BASIC FLOW



16.1.1-COLLABORATION DIAGRAM FOR USE CASE REGITER MEMBER: EXCEPTIONAL FLOW E-1



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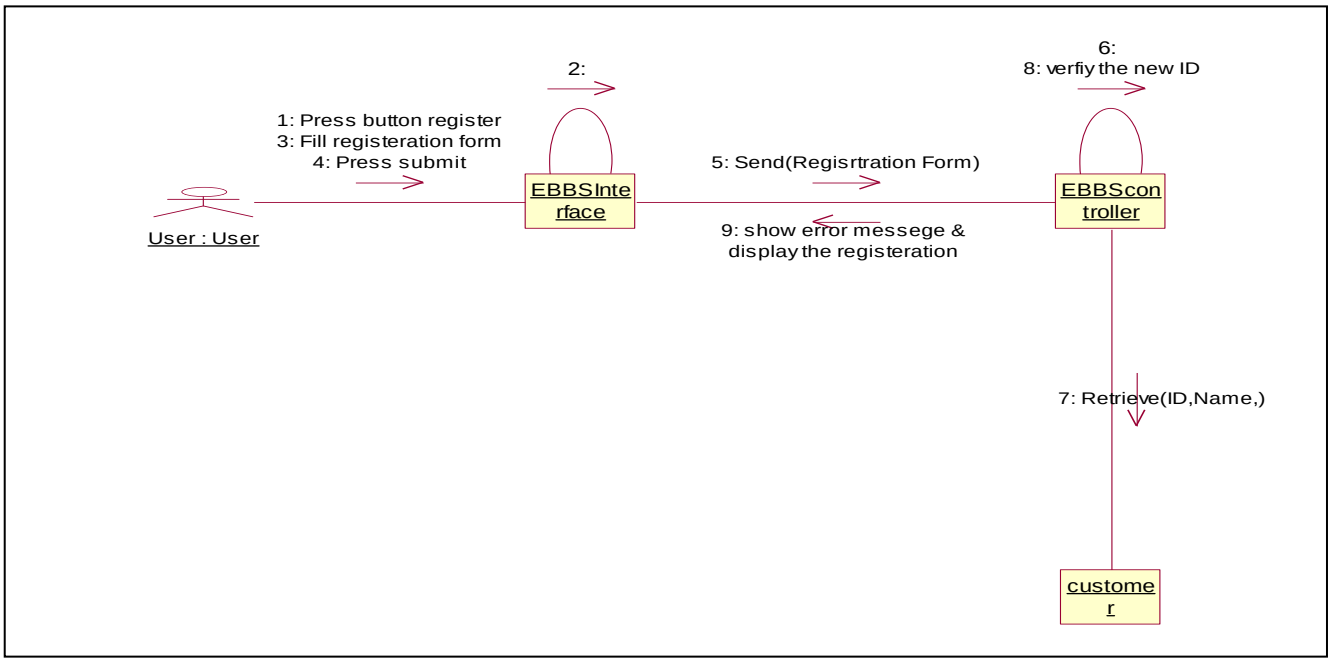
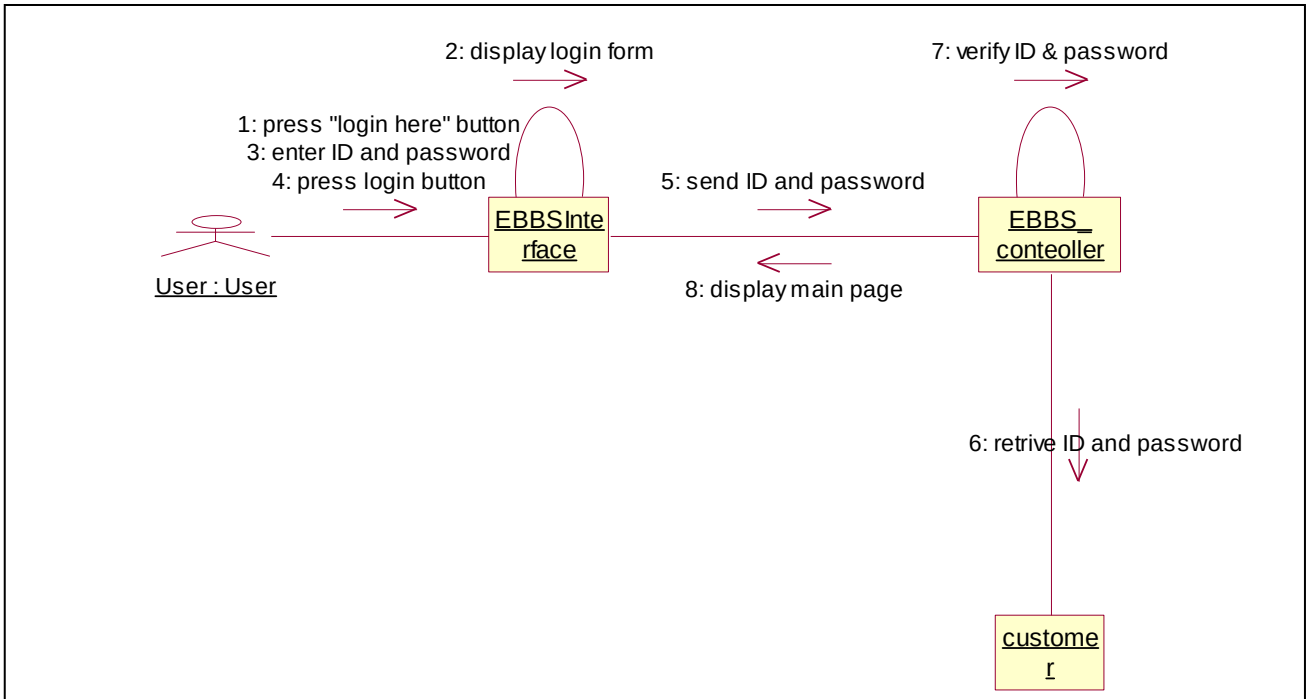
16.1.2-COLLABORATION DIAGRAM FOR USE CASE REGITER MEMBER: EXCEPTIONAL FLOW E-2



16.2-COLLABORATION DIAGRAM FOR USE CASE LOGIN : BASIC FLOW



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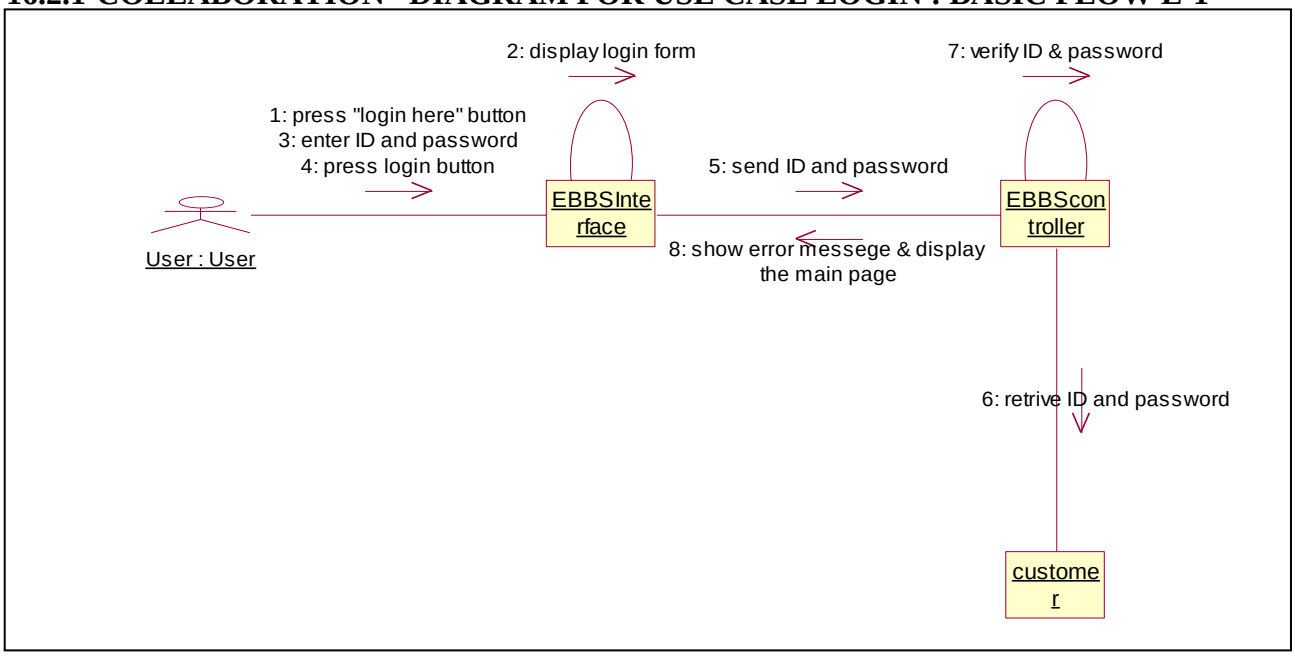
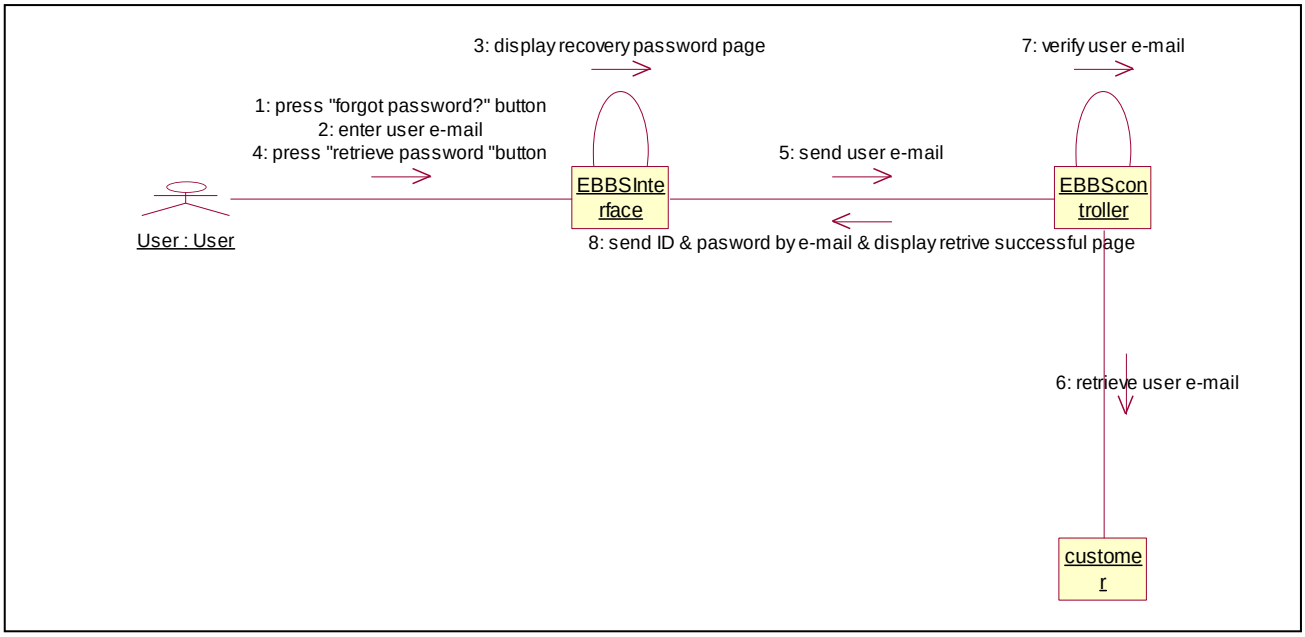
16.2.1-COLLABORATION DIAGRAM FOR USE CASE LOGIN : BASIC FLOW E-1



16.2.2-COLLABORATION DIAGRAM FOR USE CASE LOGIN : ALTERNATIVE FLOW A-1



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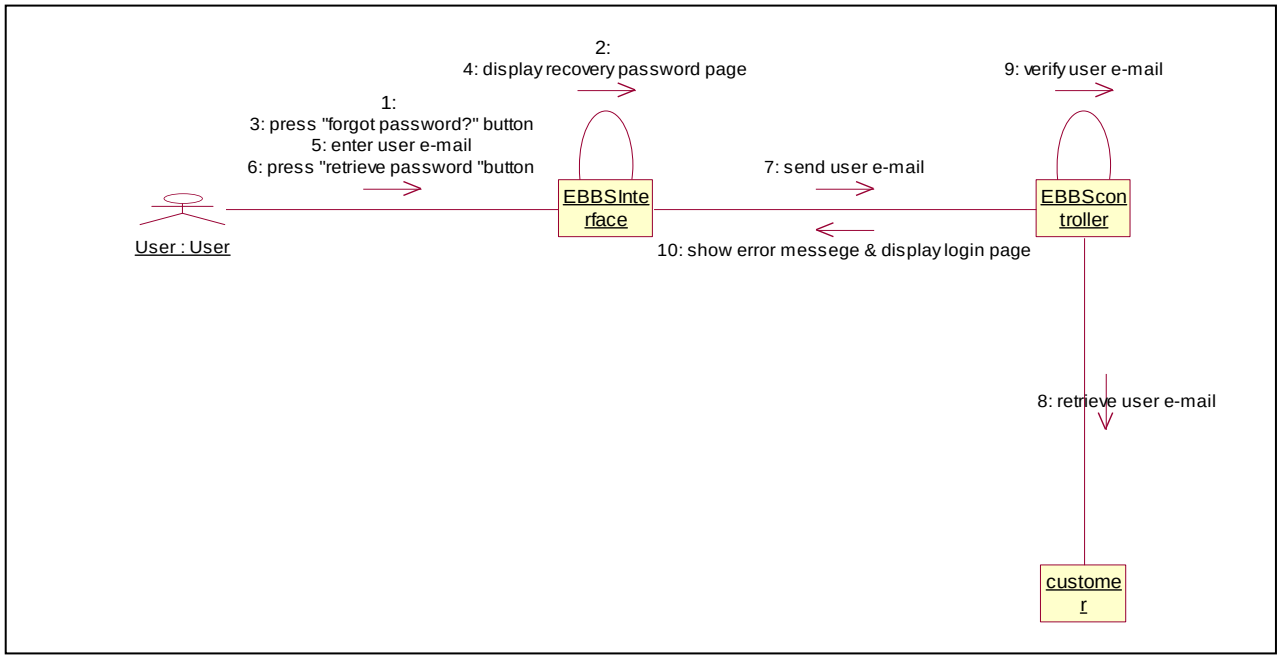
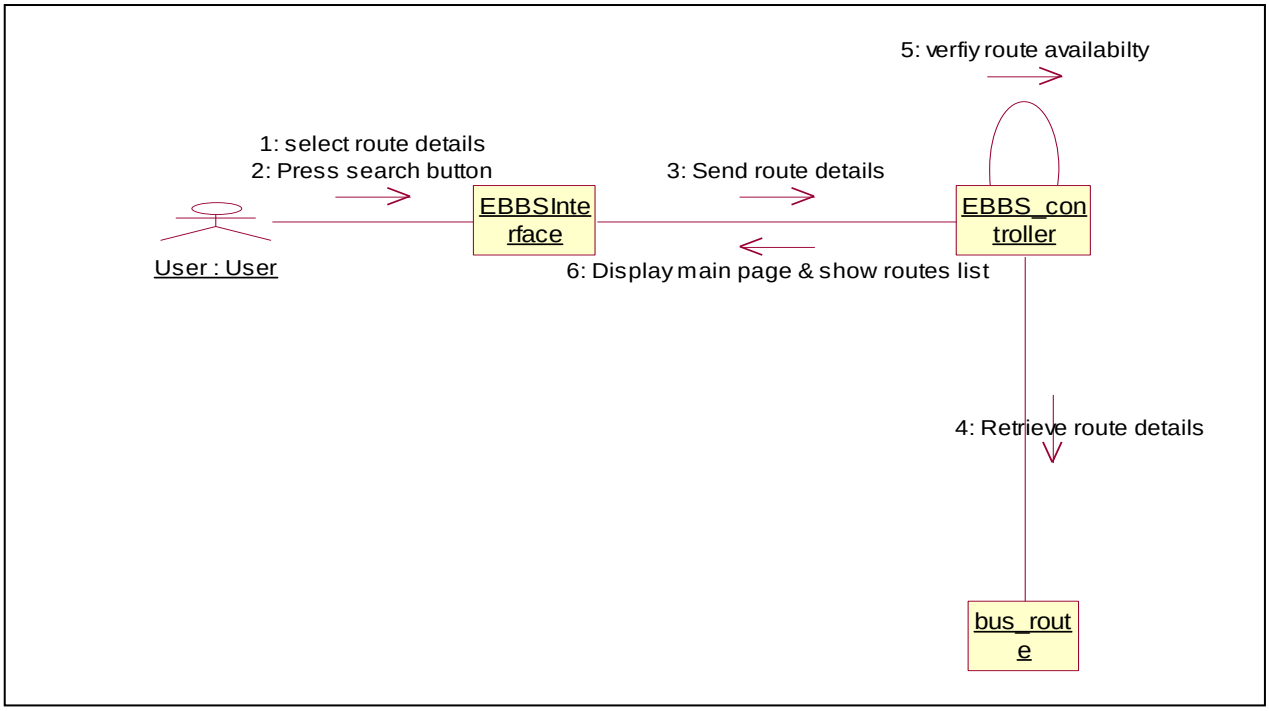
16.2.3-COLLABORATION DIAGRAM FOR USE CASE LOGIN : EXCEPTIONAL FLOW A-1:E-1



16.3-COLLABORATION DIAGRAM FOR USE CASE SEARCH DESTINATION : BASIC FLOW



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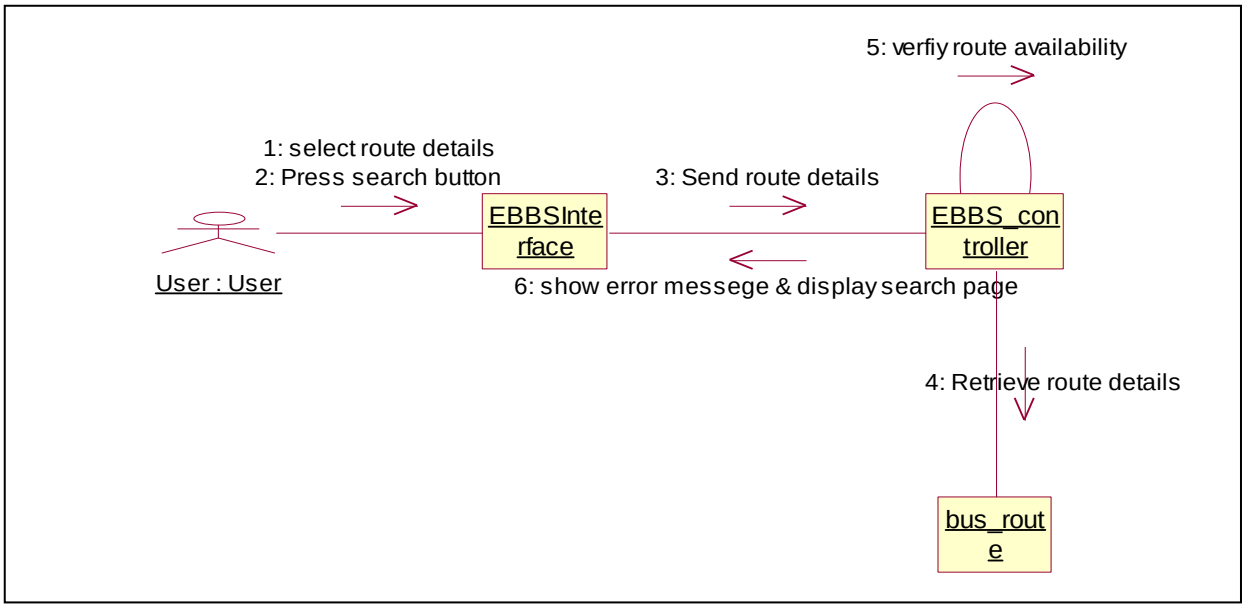
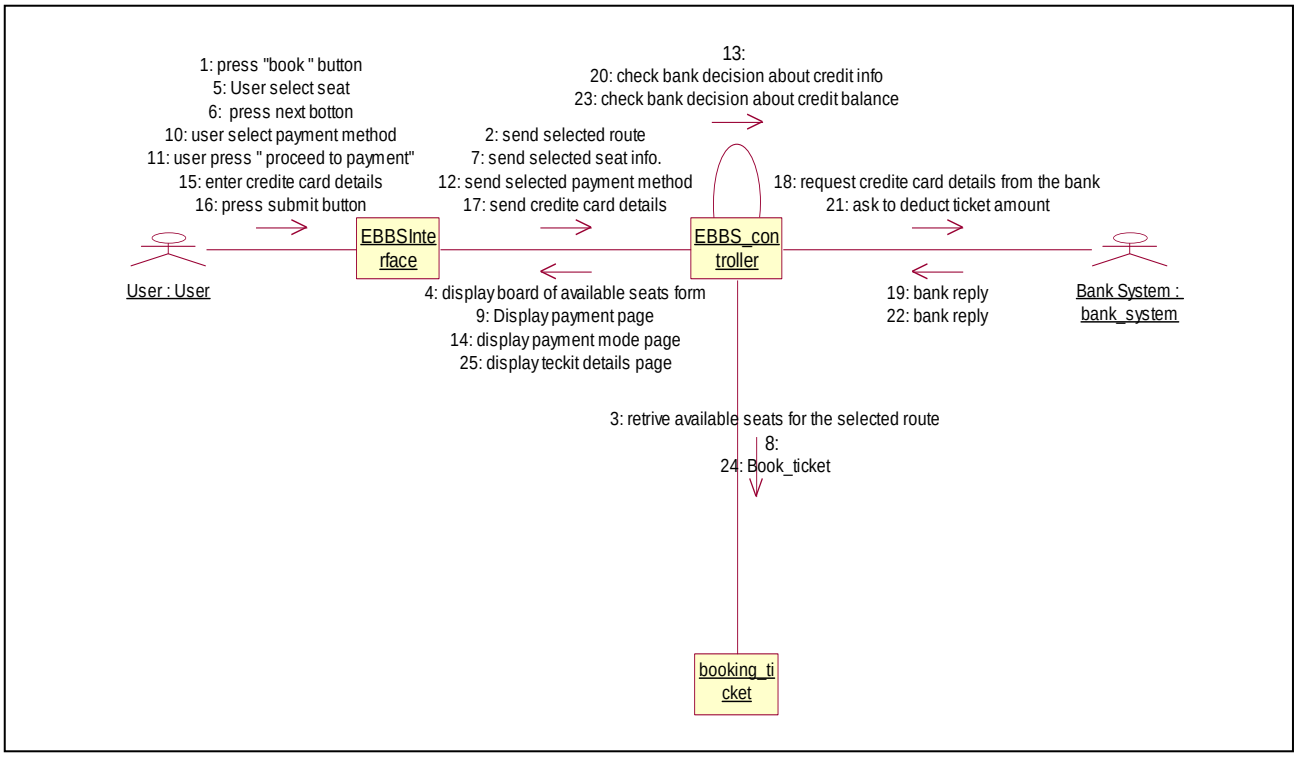
16.3.1-COLLABORATION DIAGRAM FOR USE CASE SEARCH DESTINATION: EXCEPTIONAL FLOW E-1



16.4-COLLABORATION DIAGRAM FOR USE CASE BOOKING TICKET : BASIC FLOW



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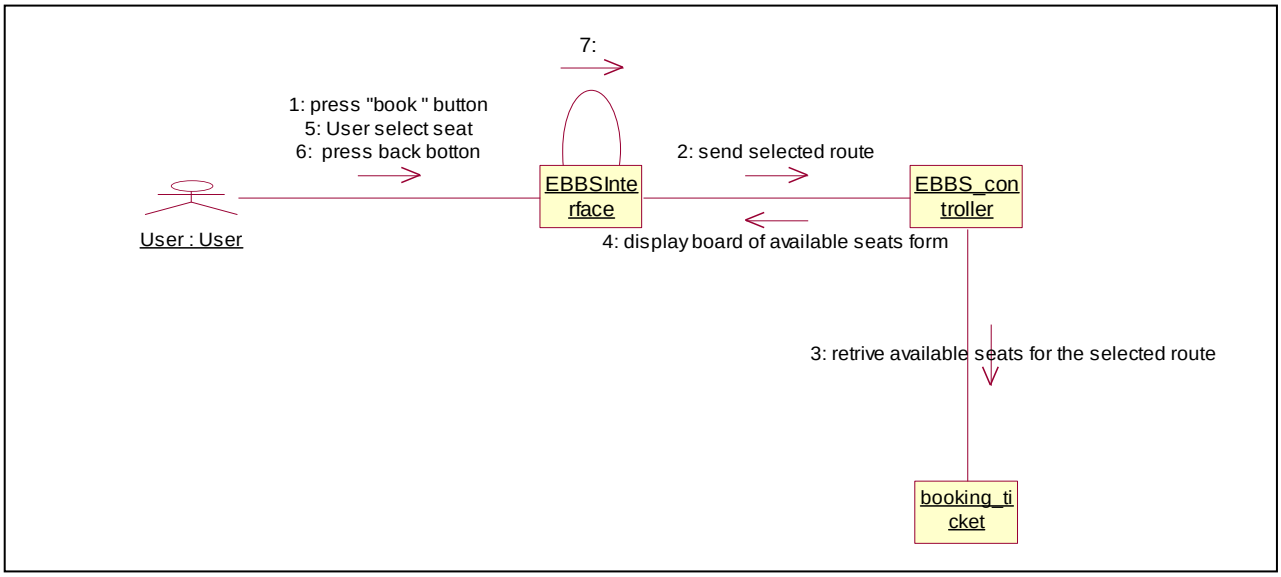
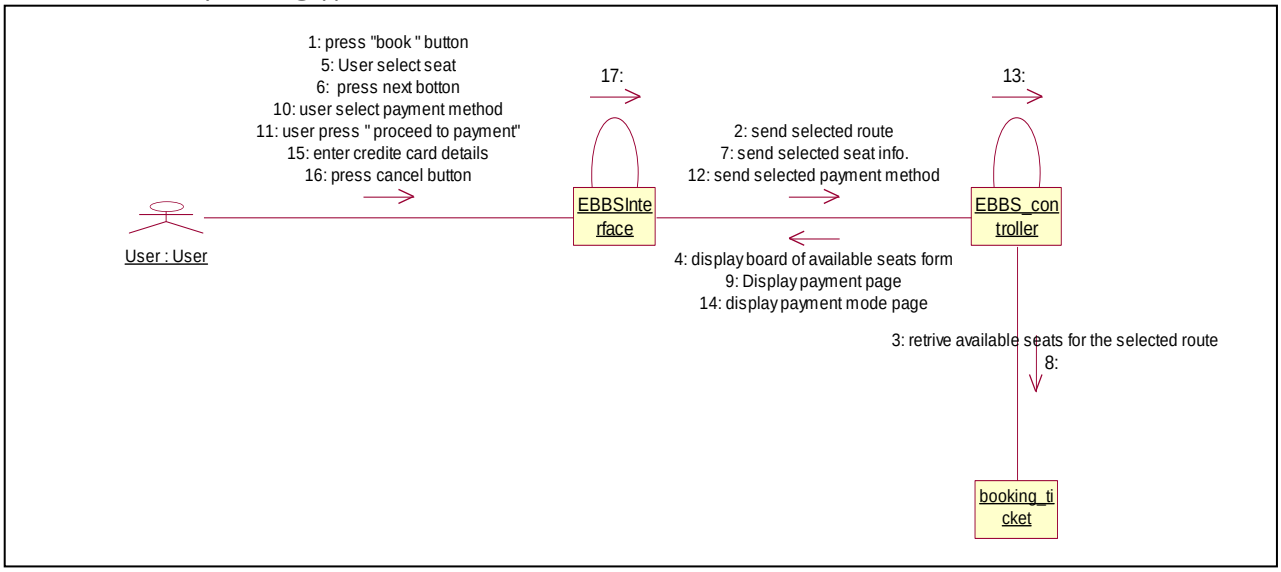
16.4.1-COLLABORATION DIAGRAM FOR USE CASE BOOKING TICKET : ALTERNATIVE FLOW A-1



16.4.2-COLLABORATION DIAGRAM FOR USE CASE BOOKING TICKET : ALTERNATIVE FLOW A-2



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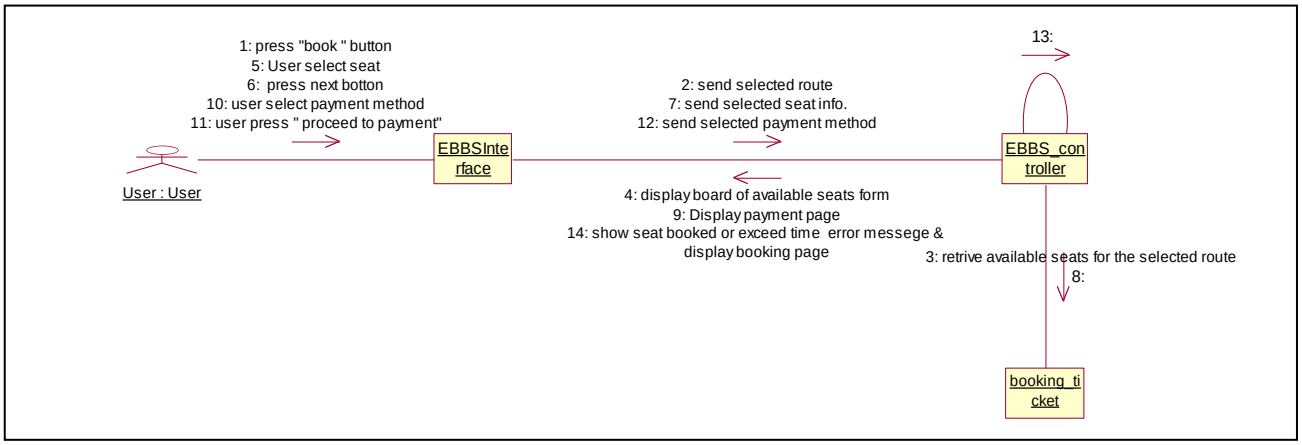
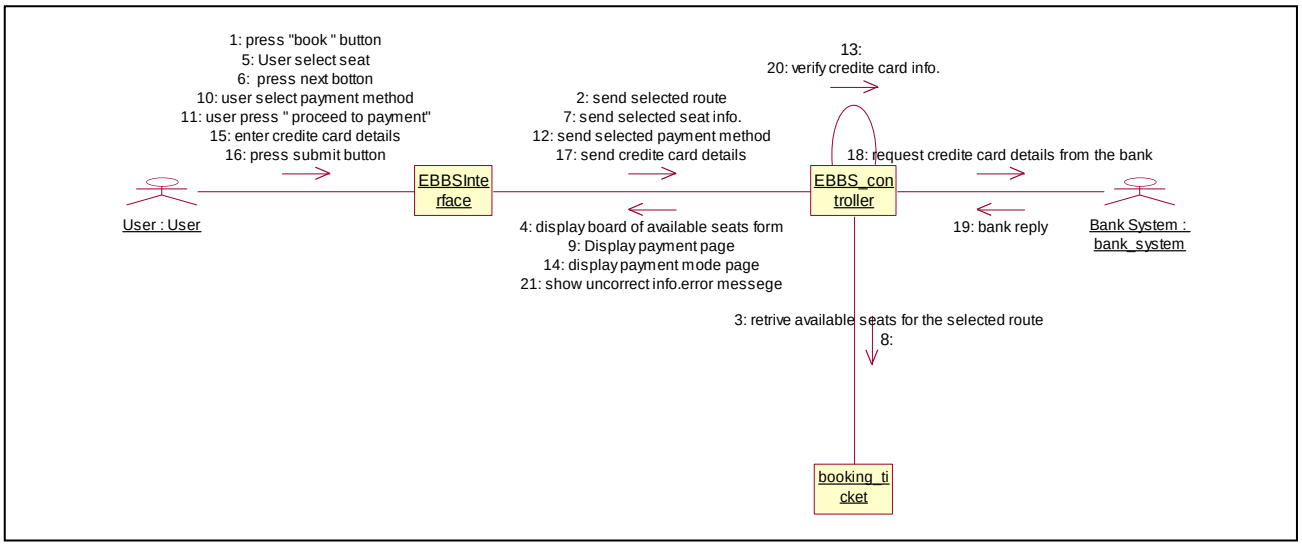
16.4.3-COLLABORATION DIAGRAM FOR USE CASE BOOKING TICKET : EXCEPTIONAL FLOW E-1



16.4.4-COLLABORATION DIAGRAM FOR USE CASE BOOKING TICKET : EXCEPTIONAL FLOW E-2



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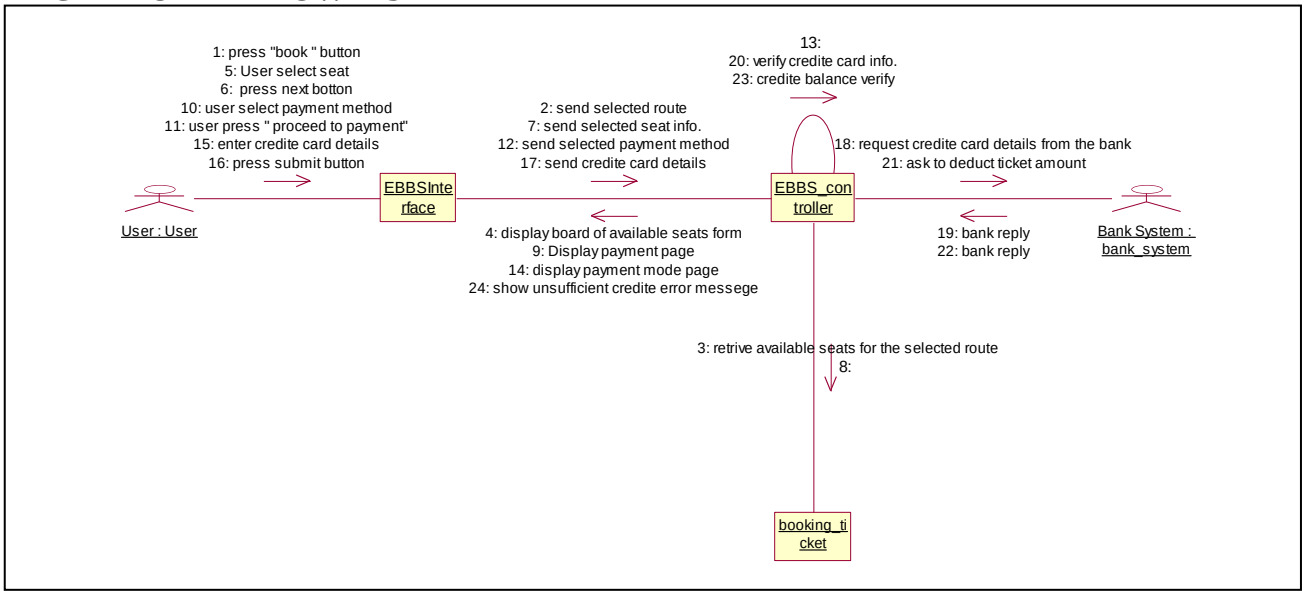
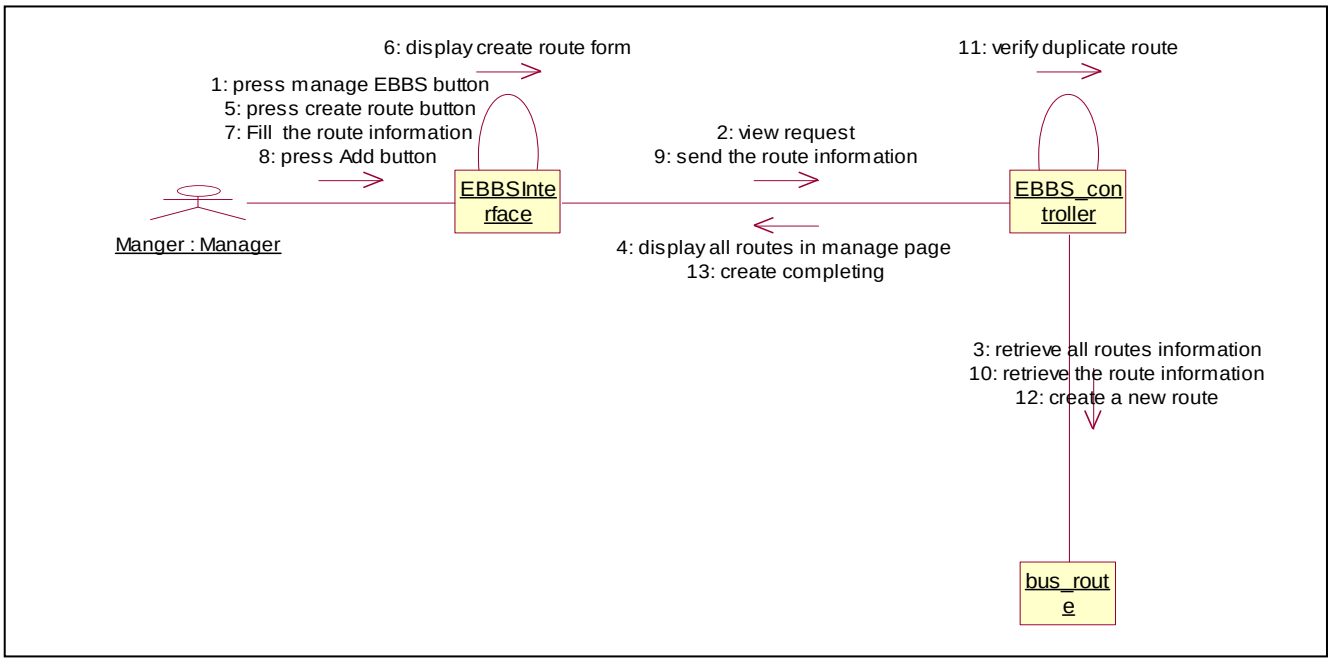
16.4.5-COLLABORATION DIAGRAM FOR USE CASE BOOKING TICKET : EXCEPTIONAL FLOW E-3



16.5-COLLABORATION DIAGRAM FOR USE CASE PRINT RECIEPT : BASIC FLOW(CREATE)



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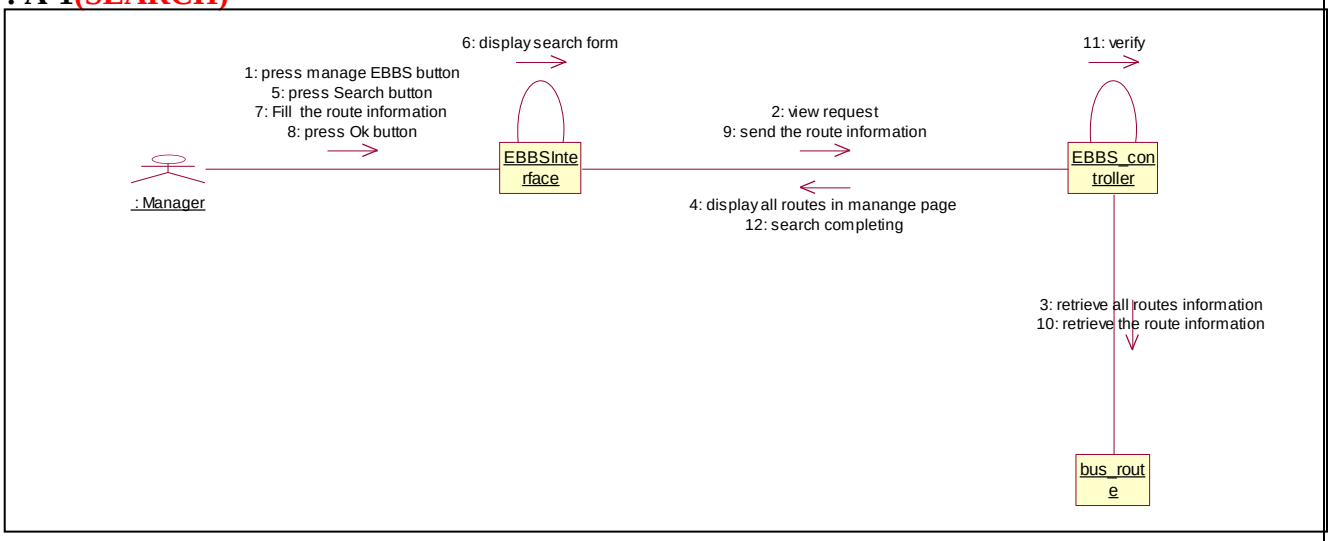
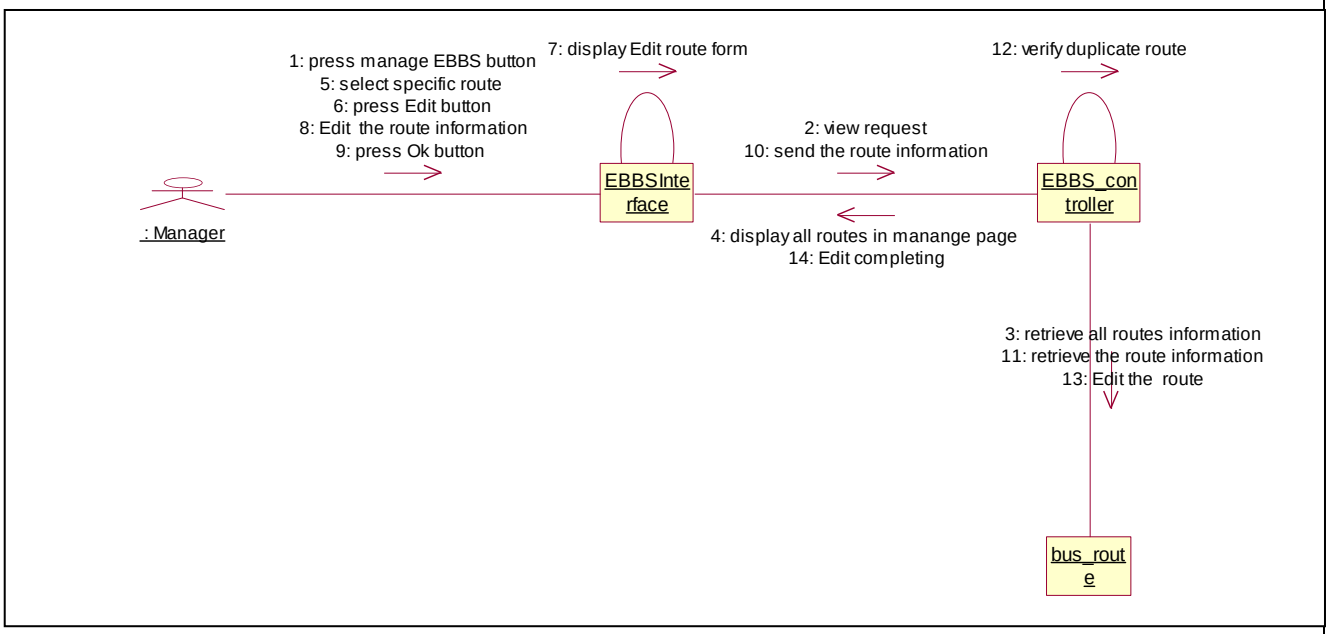
16.6.1-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-1(SEARCH)



16.6.2-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-2(EDIT)



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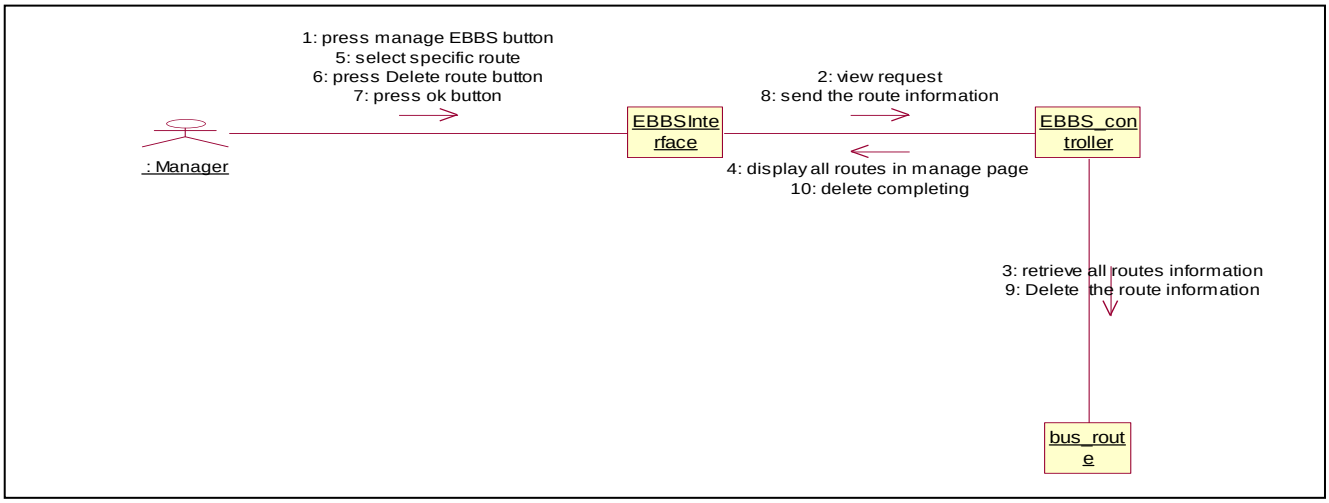
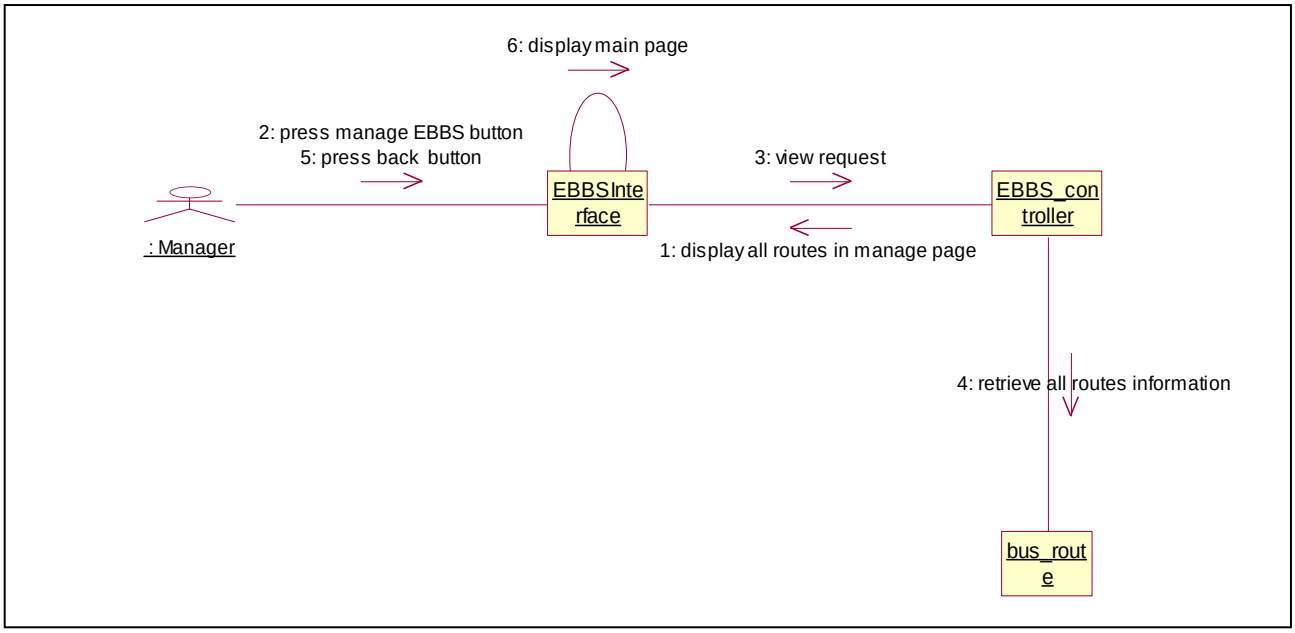
16.6.3-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-3(DELETE)



16.6.4-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-4(BACK)



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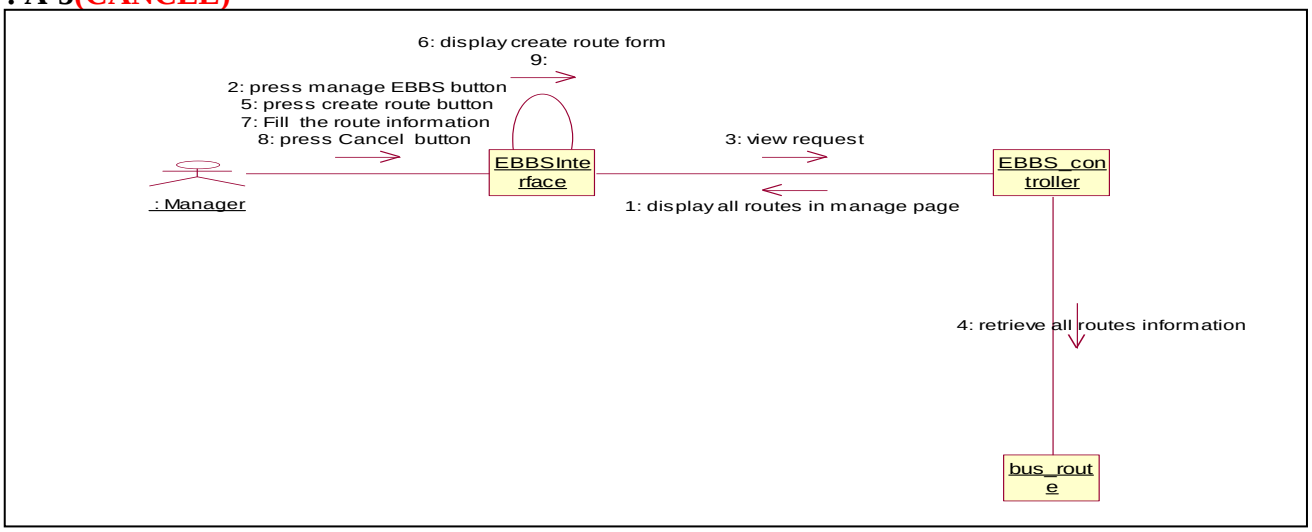
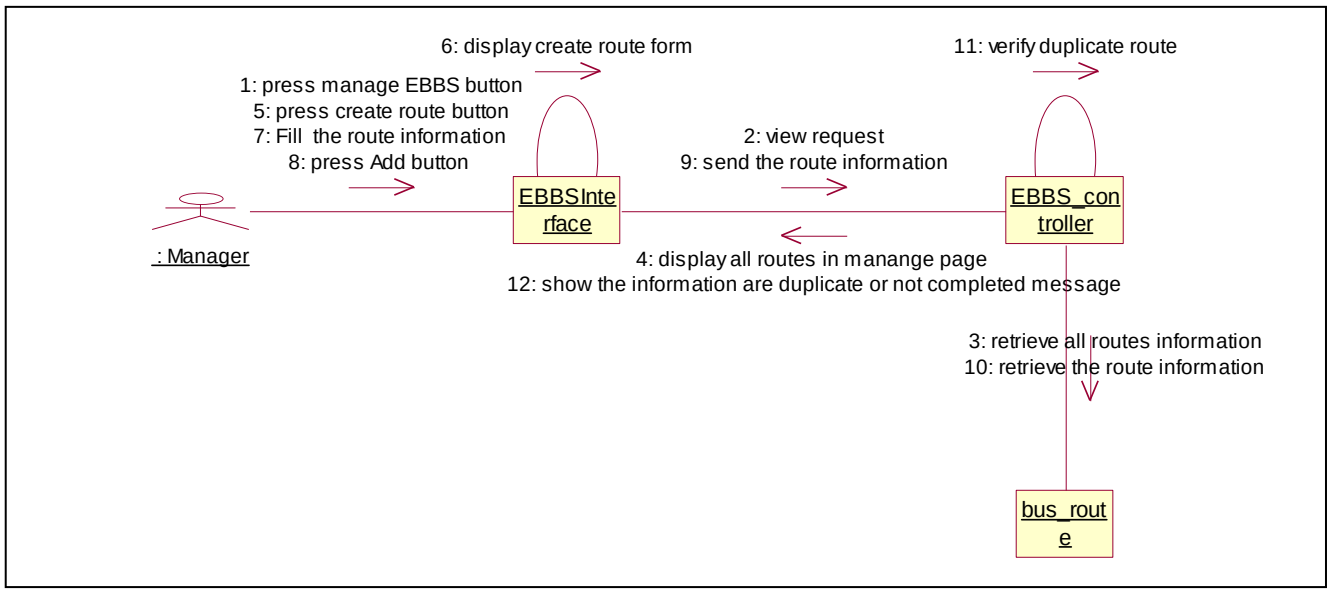
16.6.5-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : ALTERNATIVE FLOW : A-5(CANCEL)



16.6.6-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-1(CREATE)



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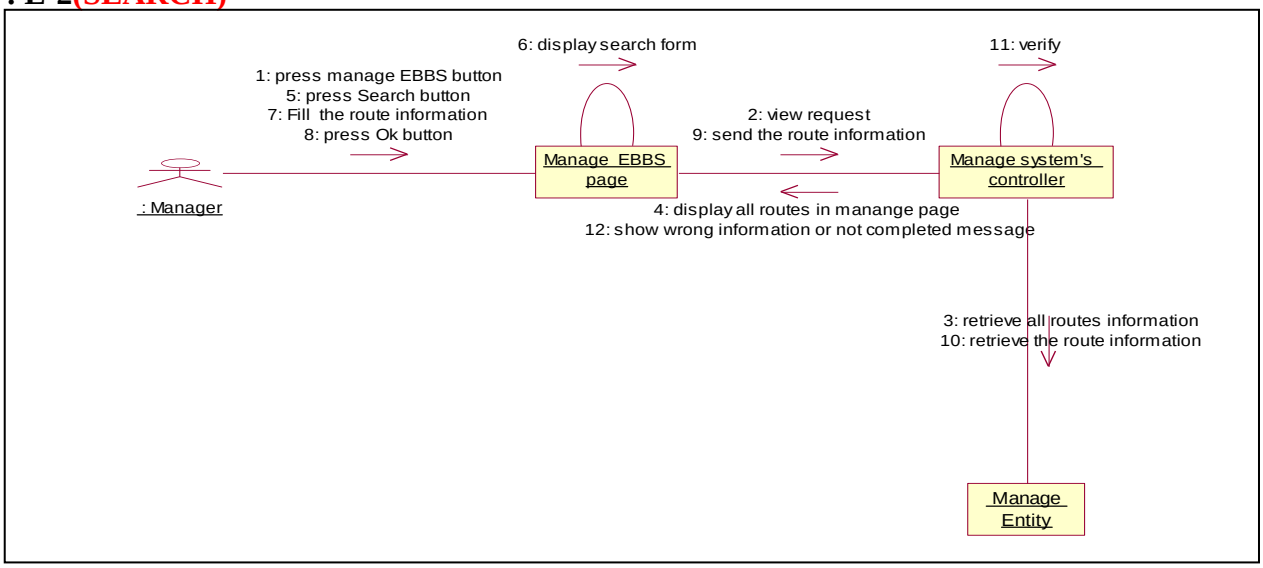
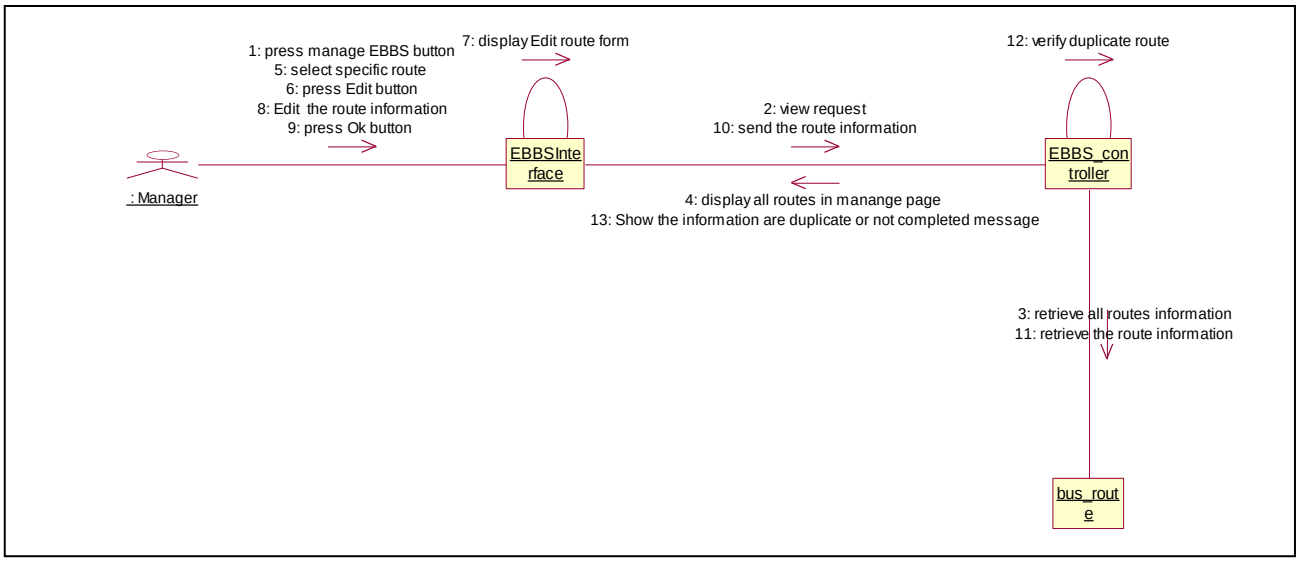
16.6.7-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-2(SEARCH)



16.6.8-SEQUENCE DIAGRAM FOR USE CASE MANAGE EBBS : EXCEPTIONAL FLOW : E-3(EDIT)



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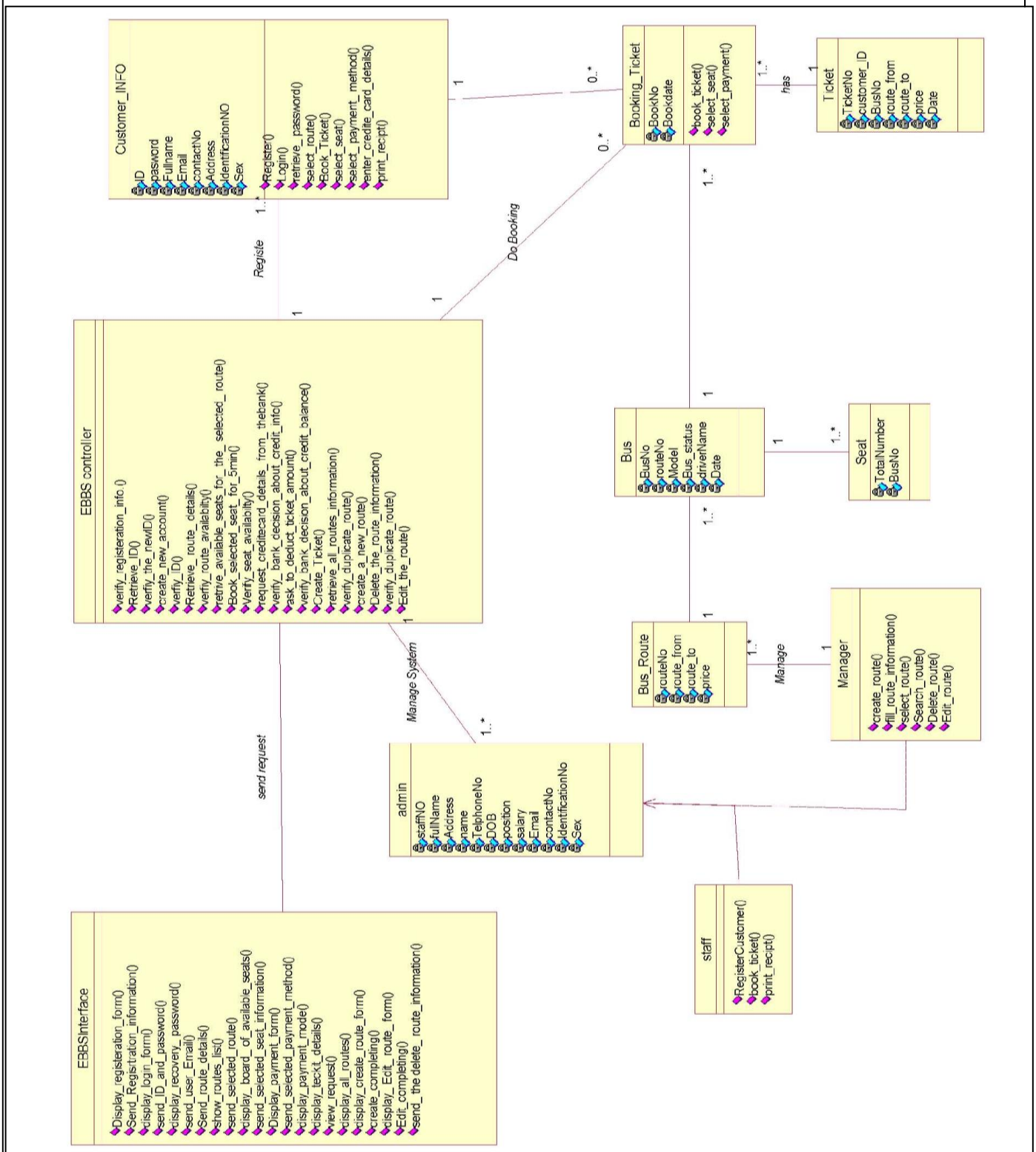
Ayad Hameed Mousa 94183

17.0 CLASS DIAGRAM FOR EBBS



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18.0 –INTERFACES
18.1- User Interfaces

The system begins with the main interface which is containing from the main operations:

1. Register
2. Login
3. Search
4. Booking
5. Manage EBBS

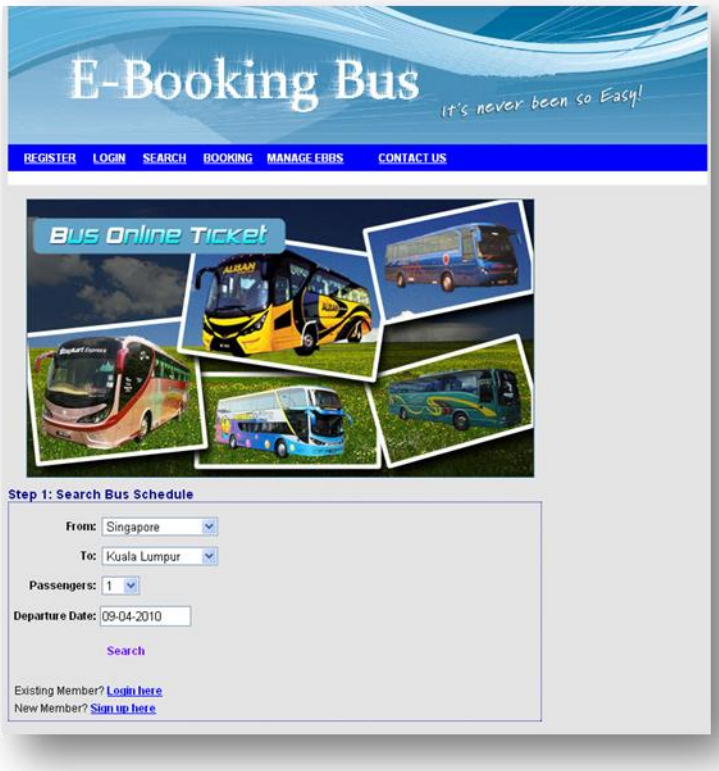

Figure-1 Main page

Any registered user can do any of the above operations (except the "Manage EBBS" operation which is runs by the manager only) just by click and track the information.

Each user enters the system will treated as a guest unless he registers by clicking the register button in the main page so the registration page will shows as bellow:

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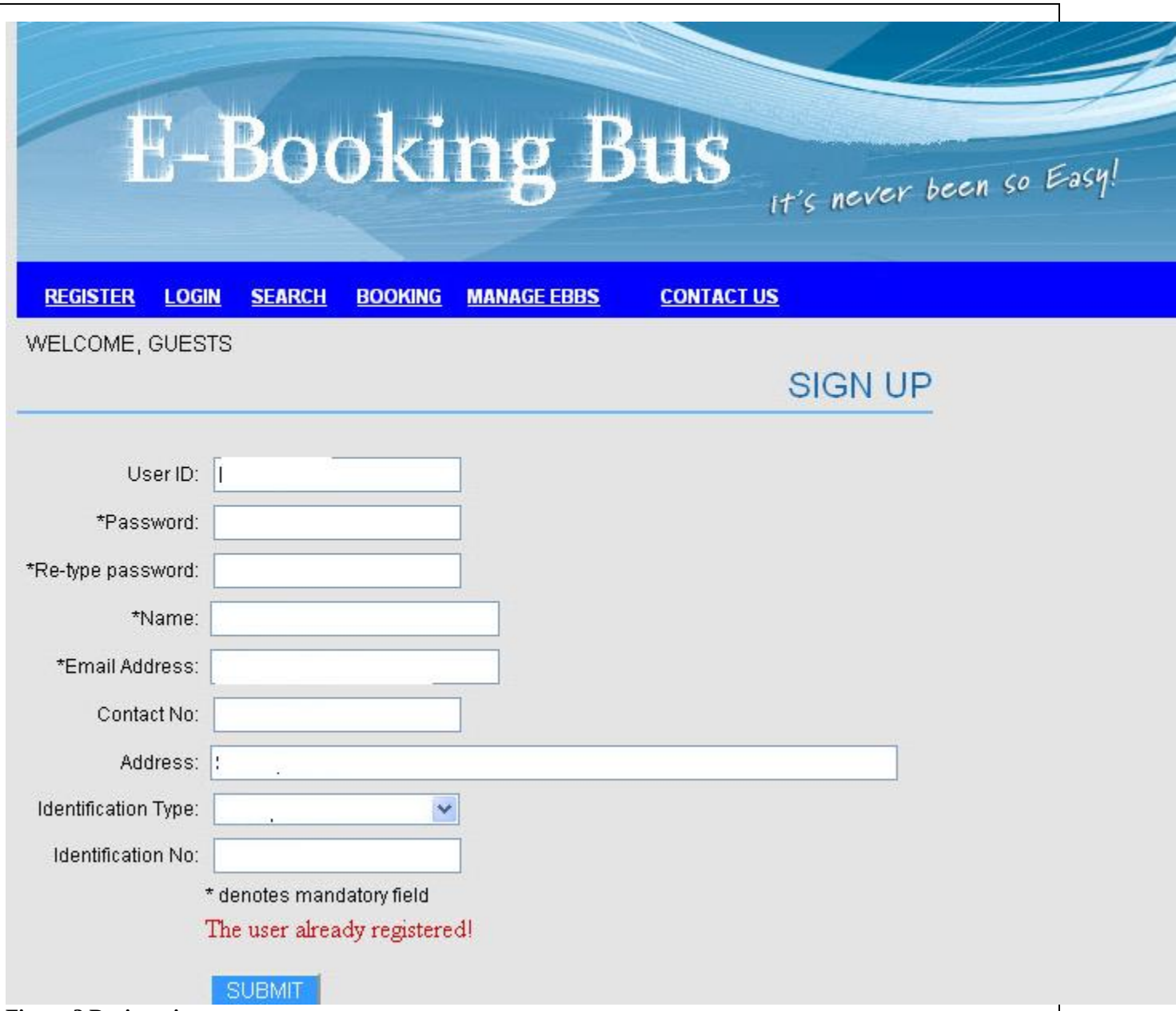

Figure-2 Registration page

After the user fill the required information and press "Submit" the system will response according that to show one of the following interfaces:

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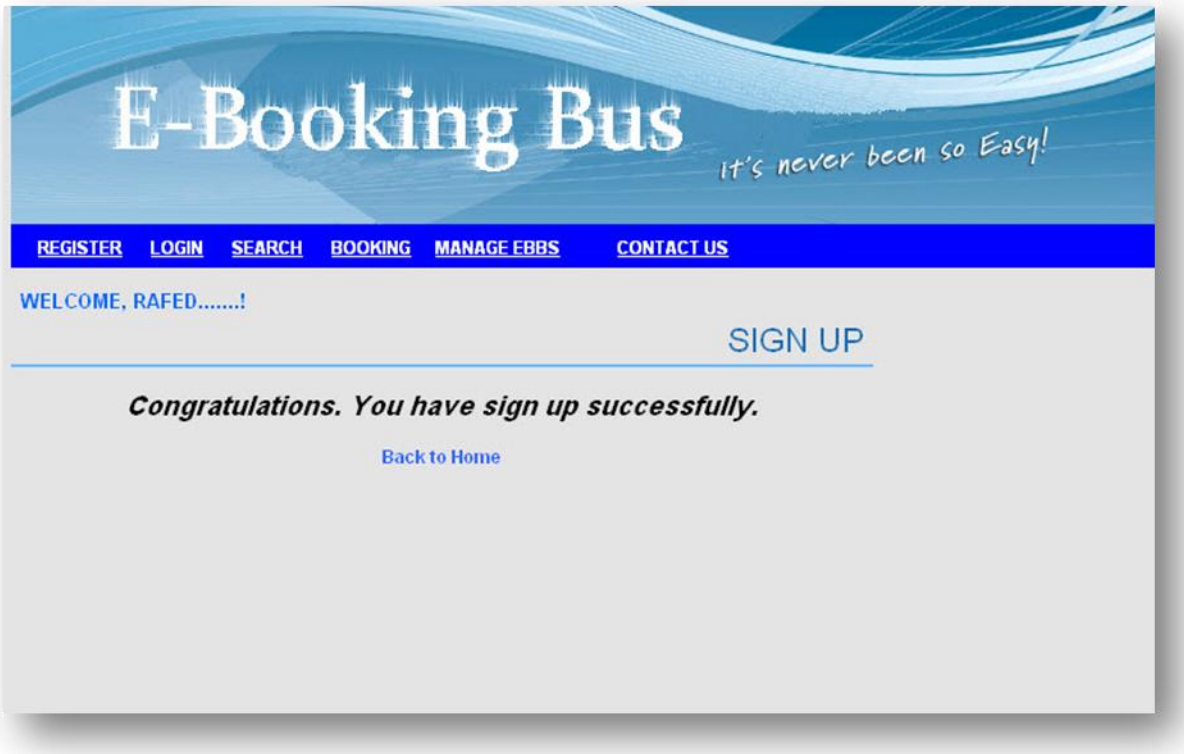

Figure-3 Registration Success

If there is any missed info the system will show the following page:

Figure-4 Registration Error

In the other hand, if any registered user tries to register using the same e-mail, the system will show duplicated message as illustrated below:

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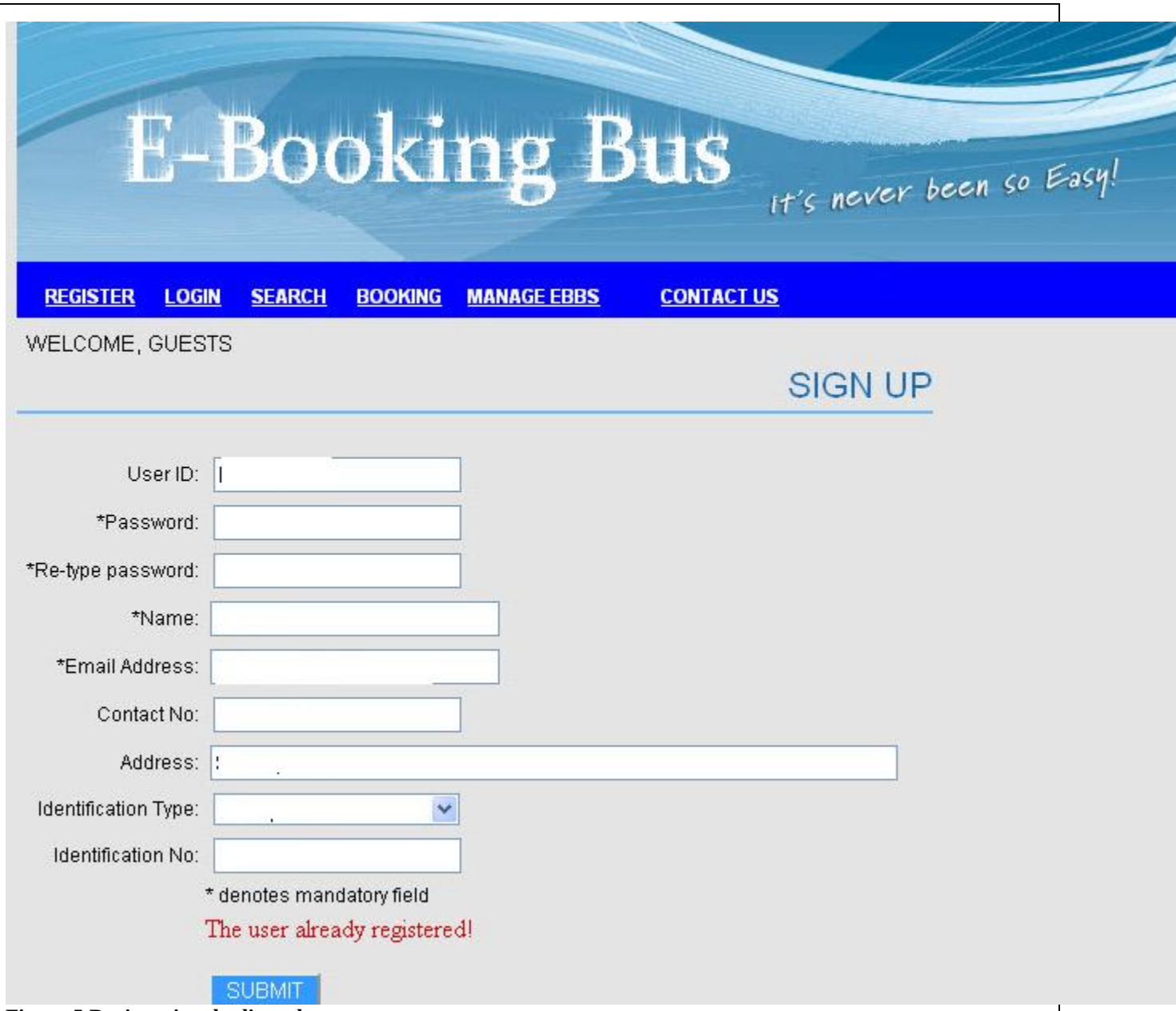

Figure-5 Registration duplicated

Then, the registered user can login to the system by pressing "login" button, the system will ask the user id and password which required in login page as illustrated in Figure.6 :

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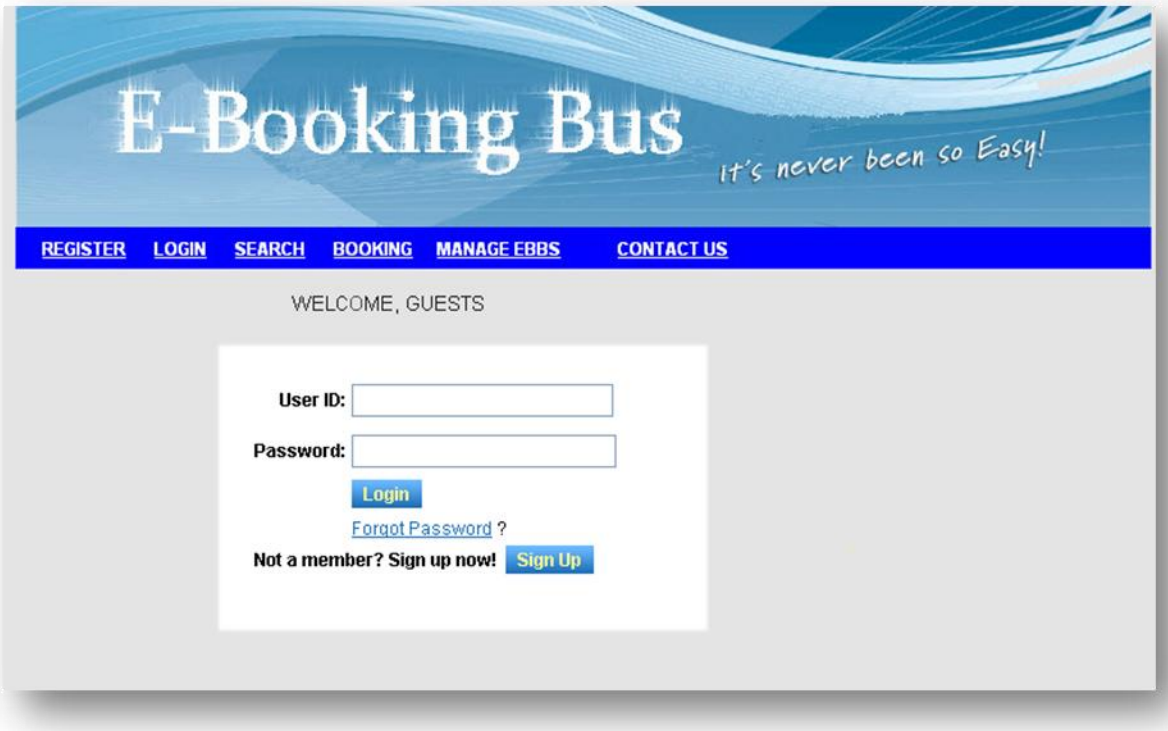

Figure-6 login

If the user forgot his password he just needs to press "Forget password?" , show this will help in retrieve forgotten password as shown in Figure.7:

Figure-7 Retrieve Password

After the user enter his e-mail and press retrieve the system will send the password by e-mail and display the following page:

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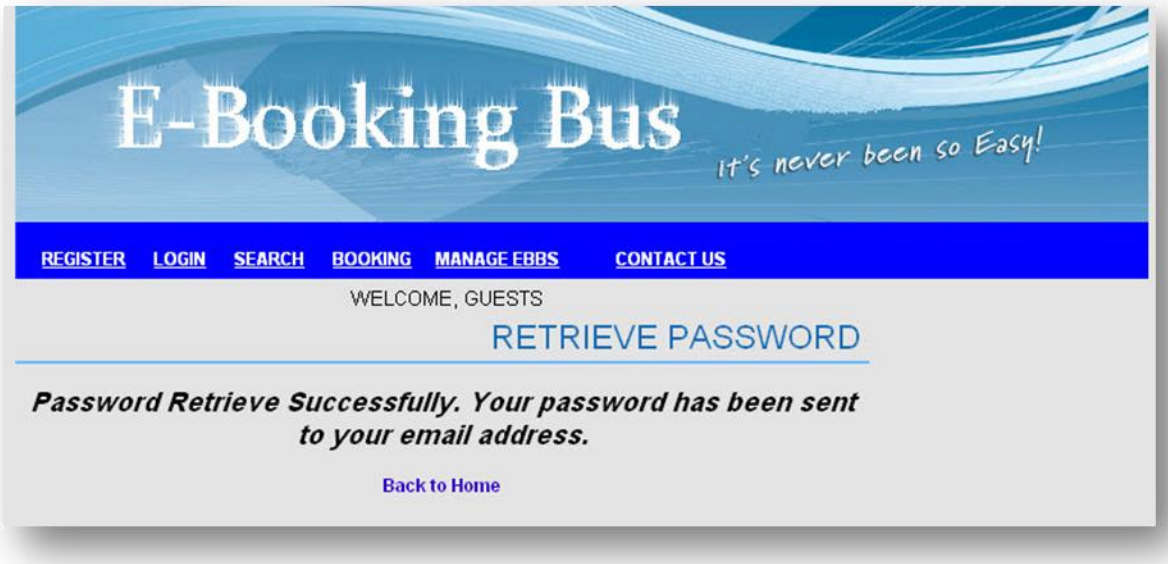

Figure-8 Retrieve Success

If the e-mail not registered in the database the system will show this message:

Figure-9 Retrieve Fails

The third operation in our system is "Search" operation which is used to show all the listed distensions, this interface run when the user press "Search" button so the system will show the following interface :

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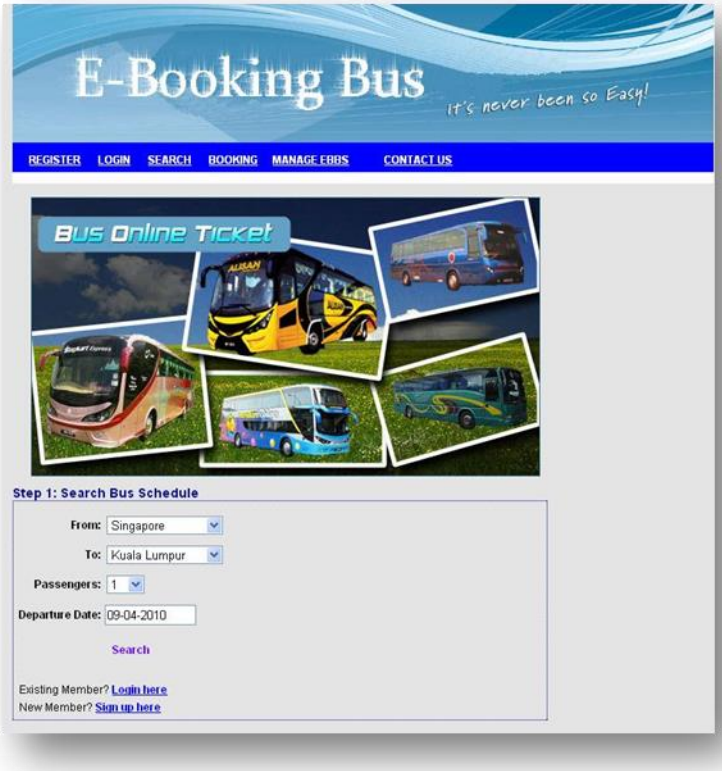

Figure-10 Search

As illustrated in Figure.10 the user should select his destination and press "search" button, so the system will list the required routes in the following interface:

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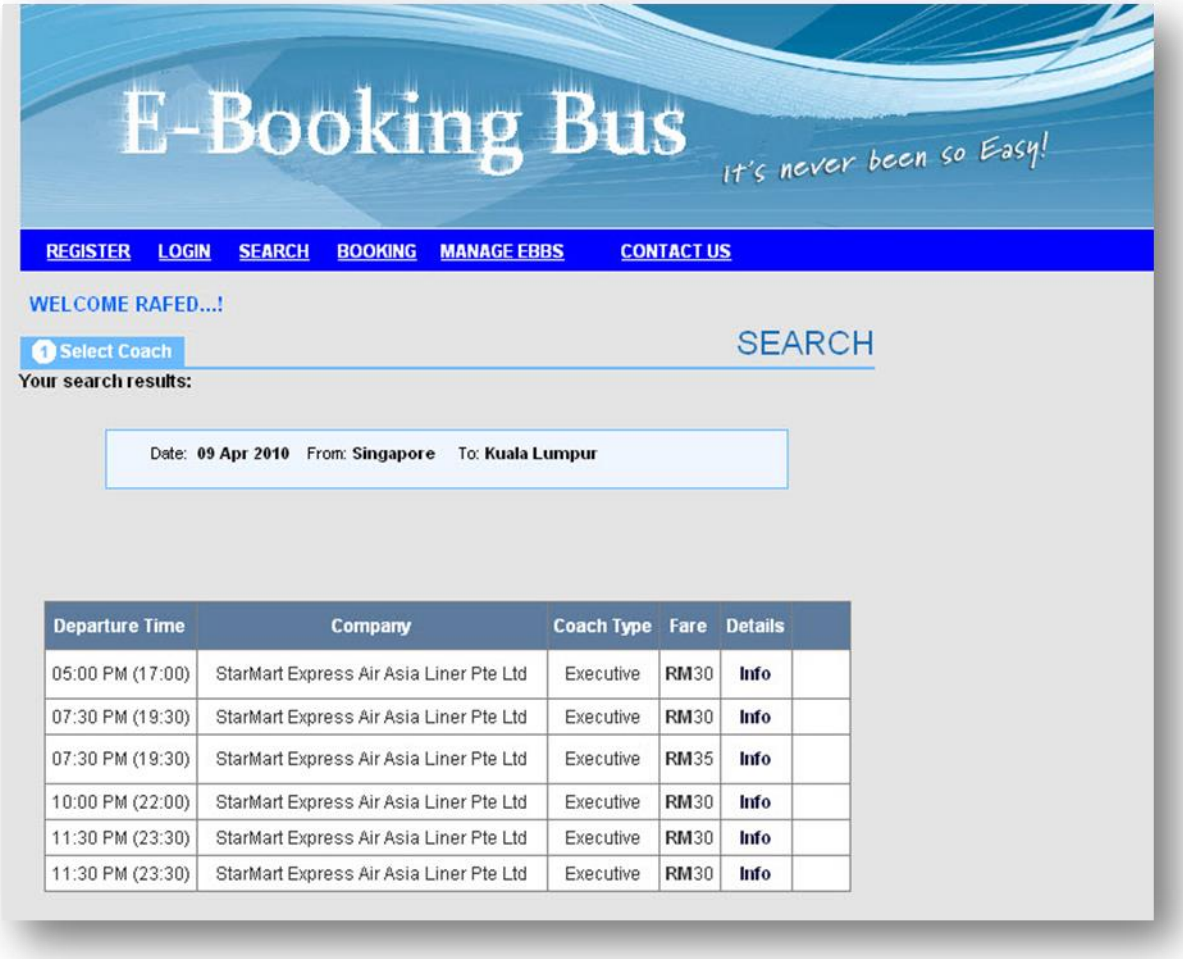

Figure-11 Search List

If there is no routes matched user's search criteria so the system will show the following message:

Figure-12 Search Error

The forth operation is booking which is begin when the user press "booking" button and waiting the system to show the following interface :

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Figure-13 Booking

After the user press "search" button, the system will display the available routes details :

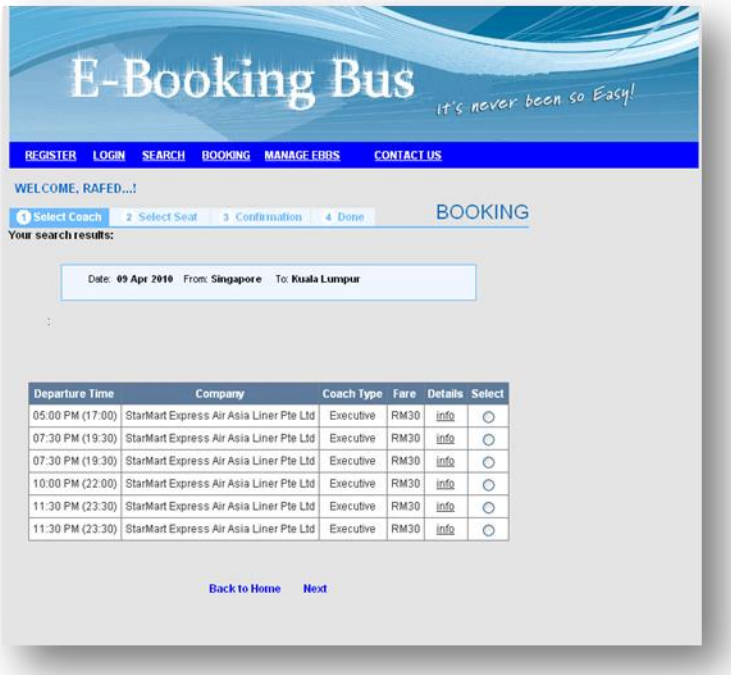

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Figure-14 Booking step1

After select one of the listed routes and press "next" the following interface will appear as shown in Figure.15 which contain all couch details with full information about the available seats:

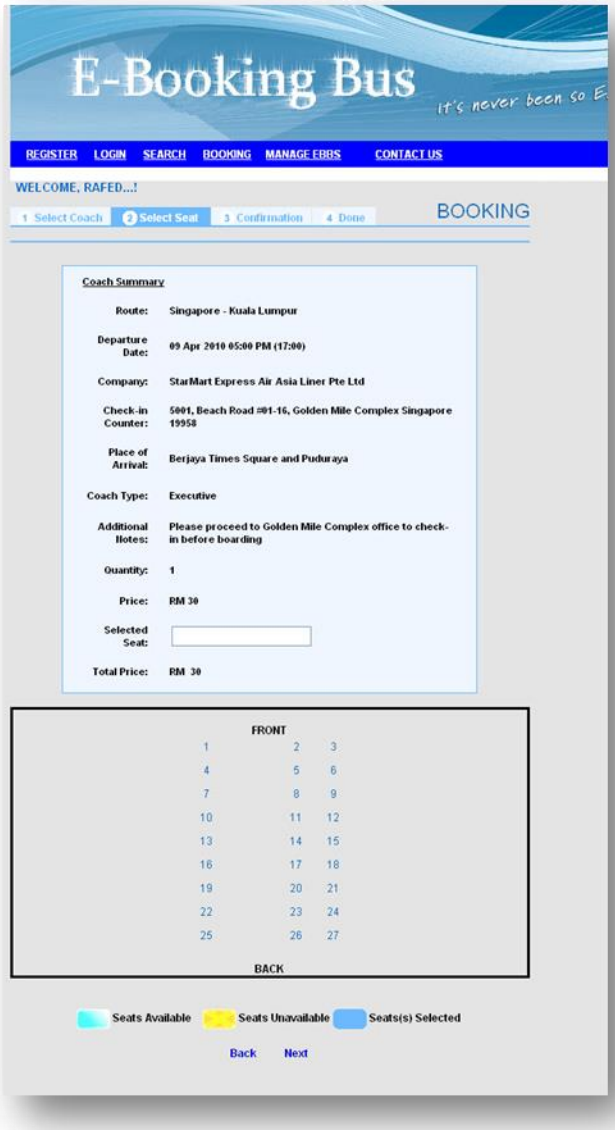

Figure-15 Booking step 2

The user should select a seat from the seat board and then press "next' button to be transformed by the system to the following interface which allow to the user to pay his ticket :

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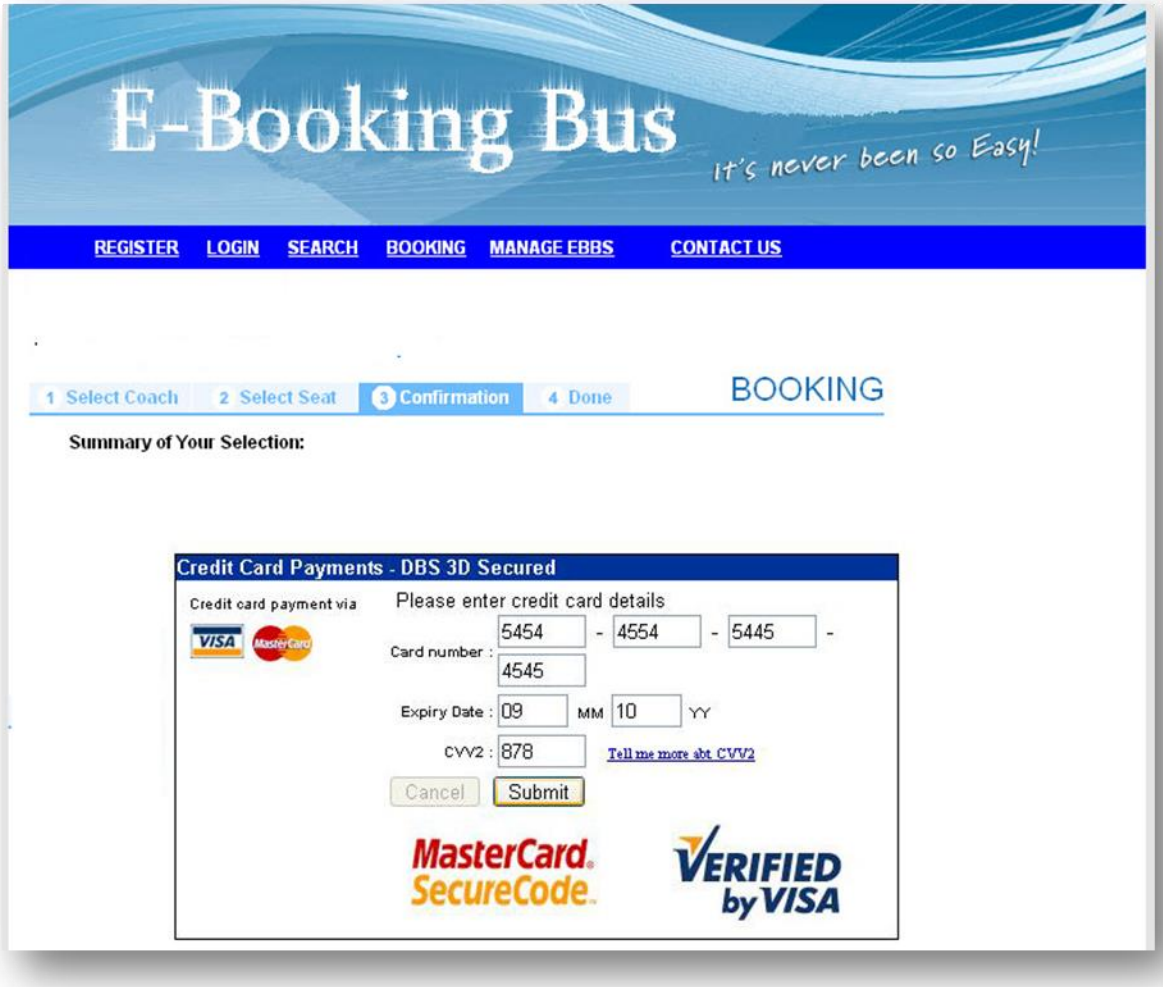

Figure-16 Booking step 3

The user should fill the correct credit card info. And then press "submit" , after that the system will connect with the remote bank system to check credit card information if the process successes the interface in Figure.17 will appear which allow to user to print his ticket if any problems occurred with the bank system, so the error message in Figure.18 will appear.

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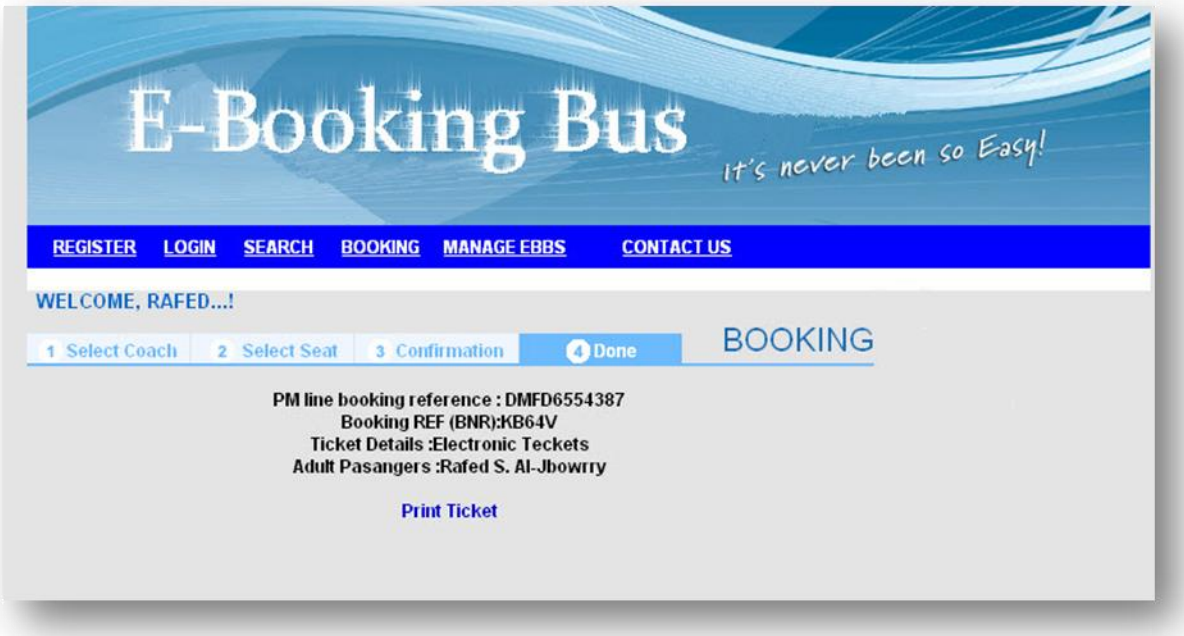

Figure-17 Booking step 4

Figure-18 Booking error

Pressing "ok" will redirect the user to the main page in Figure.1

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18.1- Manager Interfaces

The manager of the EBBS system can do a special operations on the routes like :
1-Create
2-Edite
3-Search
4-Delete
When the manger press ”Manage EBBS” button the following interface will shown :

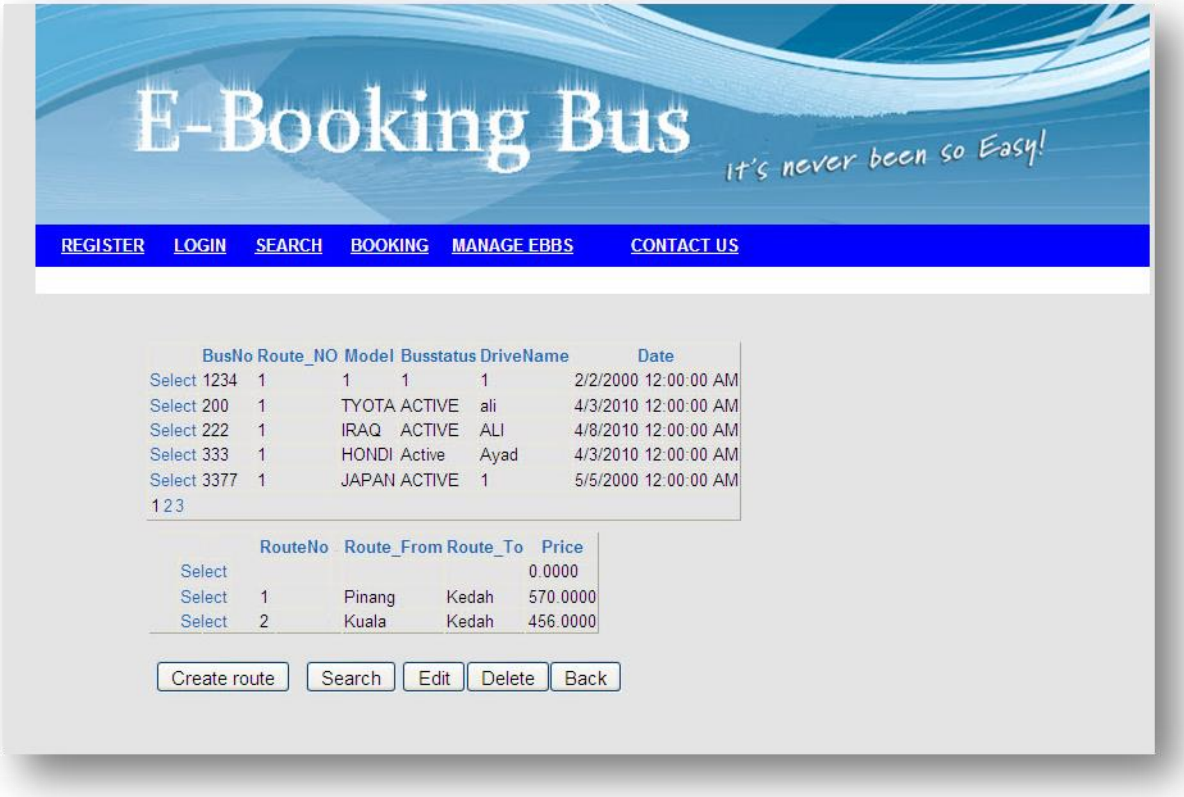

Figure-19 Mange page
By press “ Create route” the following interface will show :

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Figure-20 Create Route/Bus

The previous interface in Figure.20 contain two kind of adding can the manager do it :
1-Add route
2-Add Bus
He/she can moved by using one of the checks and then fill new information after that the manager will press 'Add" button.
If the adding successes the system will show the success message as in Figure.21:
Else, error message will appeared like in Figure.22

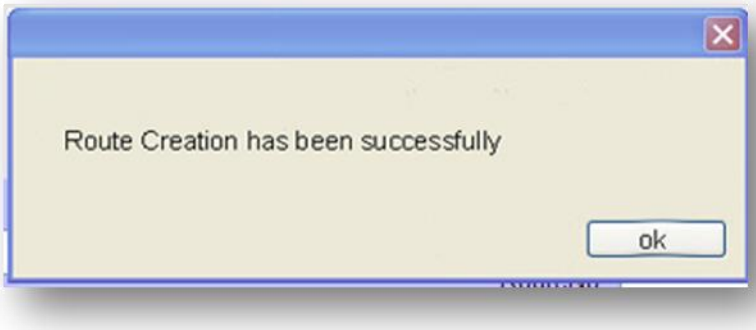

Figure-21 Create Route Success message

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Figure-22 Create Route Error Message

The second process is run by pressing "Search" button in manage page which shown in Figure.19 after press this button the search page will shown as the following:

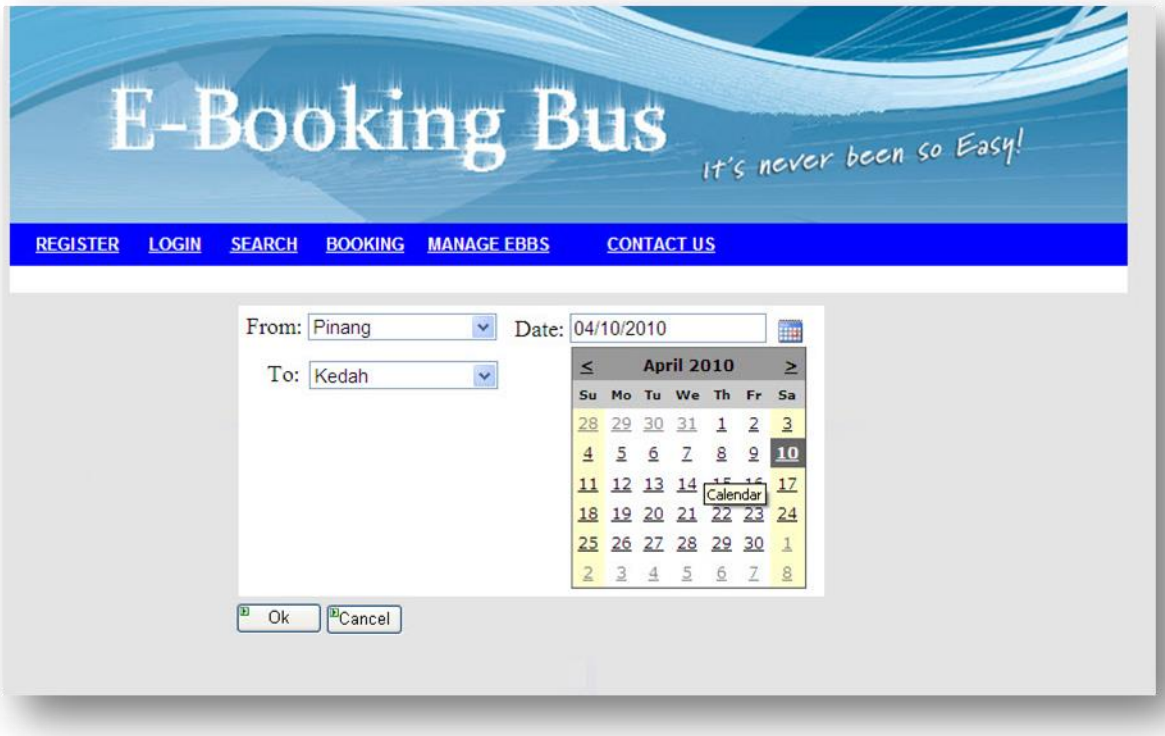

Figure-23 Search-Manage

By press "ok" the system will show the required routes as in the Figure.19 the will allow to the manager of the system to select and modify the particular routes that matched the search criteria.

The other important interface is the editing interface Figure.24 , by this interface the manager can edit any route by select the route from interface in Figure.19 then press "Edit" button, so that the system will show the following interface:

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Figure-24 Edit Route

This page allows the manager to edit the route information and press ”ok” to update the database and show a success message like which in Figure.25 or press “back” to return Manage page!, also if the information is duplicated , the system will show error like in Figure.26

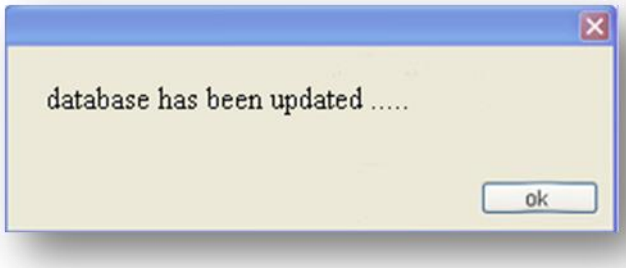

Figure-25 Edit Route success message

Figure-26 Edit Route error message

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Finally, the manager can delete any route from the system by delete interface which illustrate in Figure.27 which appear when the manager select the route directly or by doing search operation, then press “delete” button in the main manage interface in Figure.19:

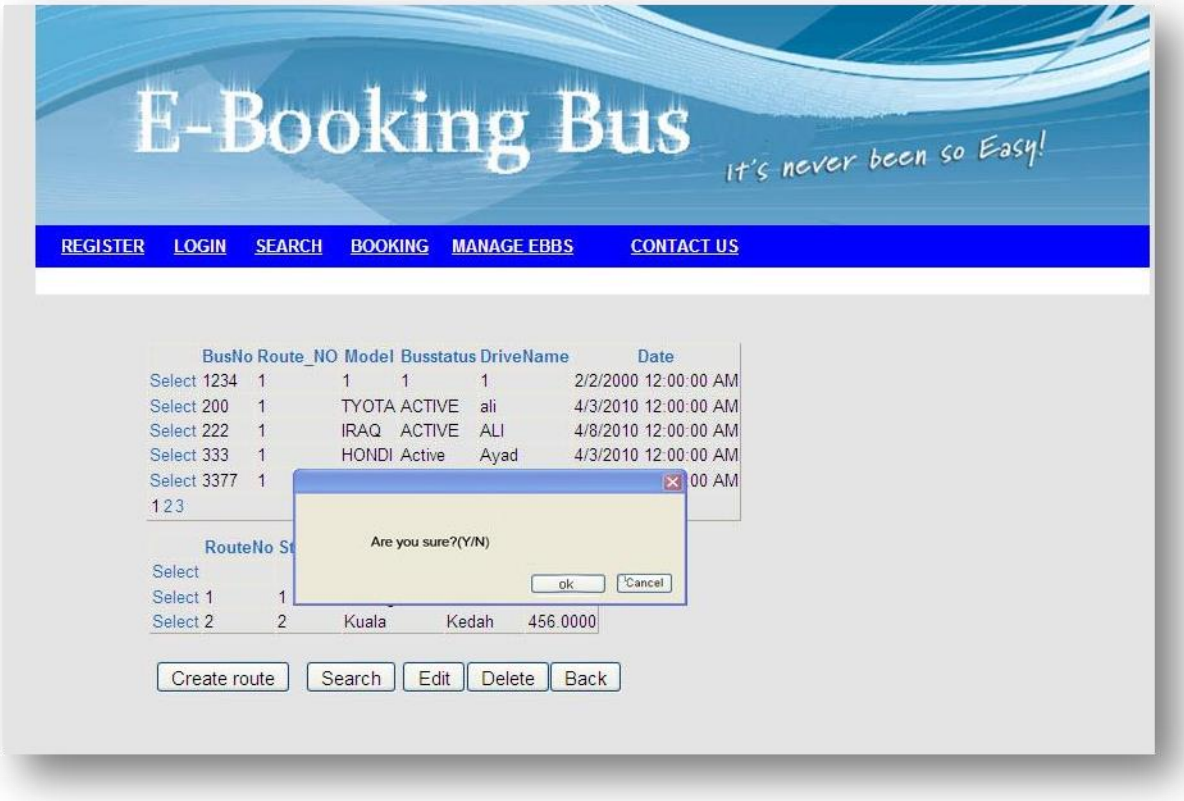

Figure-27 Delete Route

Confirmation message will appear to confirm delete operation!!

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