American International University-Bangladesh (AIUB)

Department of Computer Science and Engineering

Faculty of Science &Technology (FST)

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CSC 00191- Object Oriented Analysis And Design (OOAD)

Section: H

Project Title: Online Bookshop Management System

Submitted by:

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1. Project Title: Online Bookshop Management System

2. Project Overview: Online Bookshop is a platform where sellers can sell their new books and used books and buyers can buy those at cheaper price. The seller and buyer both will register to the system. He/she then can upload books and set their prices. The buyer can view details of the books and buy or reserve book by half payment. He/she can also request for unavailable books. Both buyer and seller can give feedbacks or report problem which will be handled by Client. The Client will be the medium of communication between buyer and seller through chatting on the website. He can mail registered users on frequent updates and information. The Manager will manage registered users and approve books before uploading it. He can also view sales history to plan out further updates for the web portal. Thus the Manager can control the whole system. Four kinds of user use this system-Seller, Buyer, Manager, Client

3. Justification: Online Bookshop is a platform is a platform where sellers can sell their new books and used books and buyers can buy those at cheaper price. The seller will register to the system. He/she then can upload books and set their prices. The buyer can view details of the books and buy or reserve book by half payment. He/she can also request for unavailable books. Both buyer and seller can give feedbacks or report problem which will be handled by Client. The Client will be the medium of communication between buyer and seller through chatting on the website. He can mail registered users on frequent updates and information. The Manager will manage registered users and approve books before uploading it. He can also view sales history to plan out further updates for the web portal. Thus the Manager can control the whole system.

- ❖ Our system will help people to sell their new books and used books instead of keeping them idle for years.
- ❖ Others can buy the books that they need at a lower price.

- ❖ This will be a great way to obtain textbooks. Especially for students, obtaining books at second hand prices is a great money saver.
- ❖ Not only students can purchase books by this system but when they are finished, they can also become a seller of used books.
- ❖ Old books will be utilized rather than thrown away. They will no more be destroyed gradually.
- ❖ Purchasing used books will offload the burden of high tuition fees and other expenses from a student's shoulder.
- ❖ The platform will allow sellers and buyers to contact each other directly without a middleman, thereby streamlining the process.

4. Overall Use case diagram of the system

There are four types of users that interact with the system: sellers, buyers, Manager and Client. Each of these four types of users has different use of the system, so each of them has their own requirements.

Seller:
The sellers are registered members of the system and have their own profile. They can upload books with detailed information that they want to sell. There are also options like reporting problems and giving feedback for the sellers.

Buyer:
The buyers can visit and purchase new and used books from the website. Since all the details of the books are public, buyers can see them by simply entering into the web portal using their username and password. They can also request for unavailable books and can reserve books by paying advance. They can give feedback for the purchased book. There is also a search option for them to find out any book more easily. The buyers can report any problem about the system or seller as well.

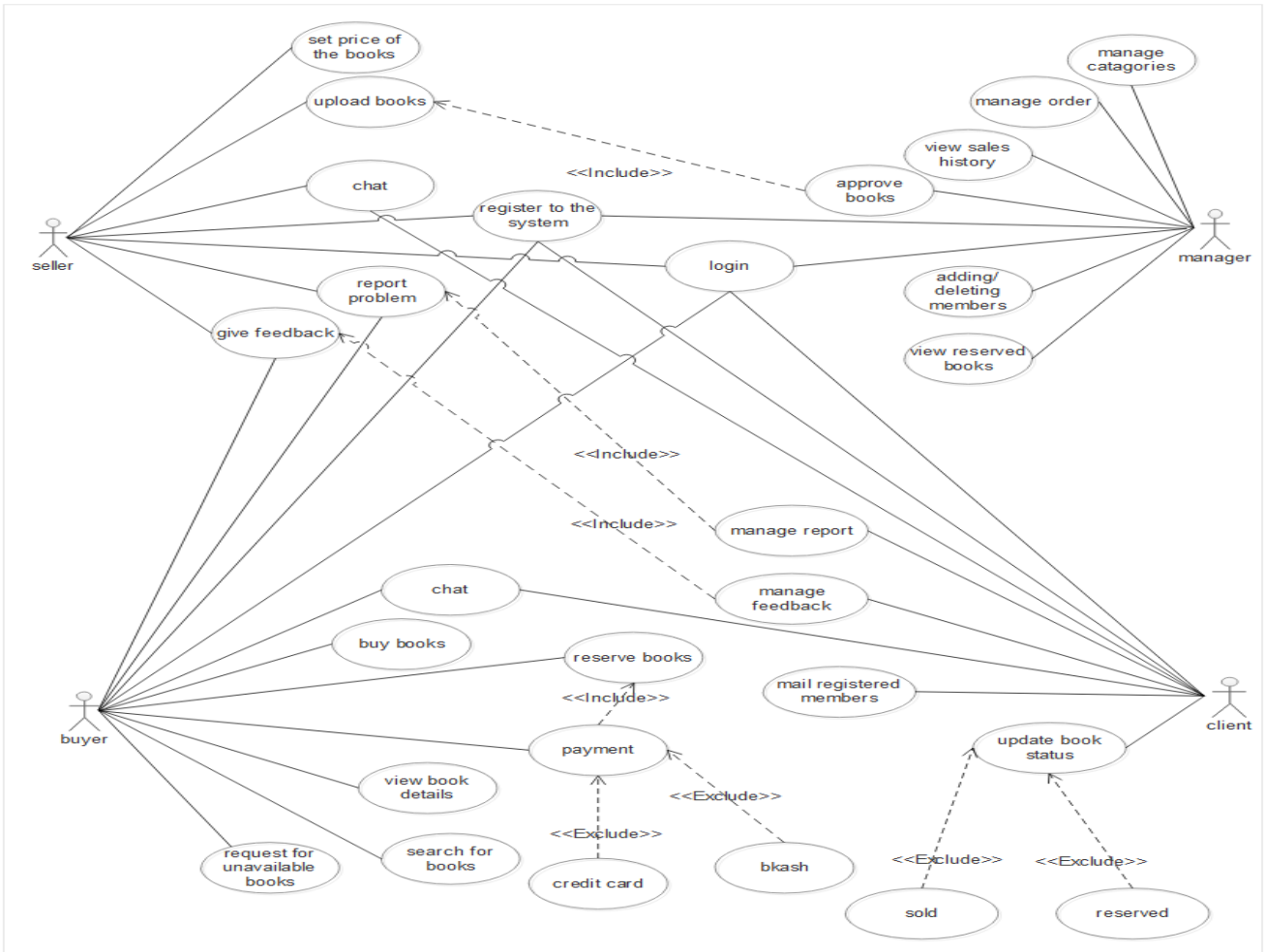
Manager:
The manager also interact with the web portal. They are managing the overall system so there is no incorrect information within it. The manager can manage orders and categories, view sales history and list

of reserved book, add or delete members from the system and approve books before uploading on the website.

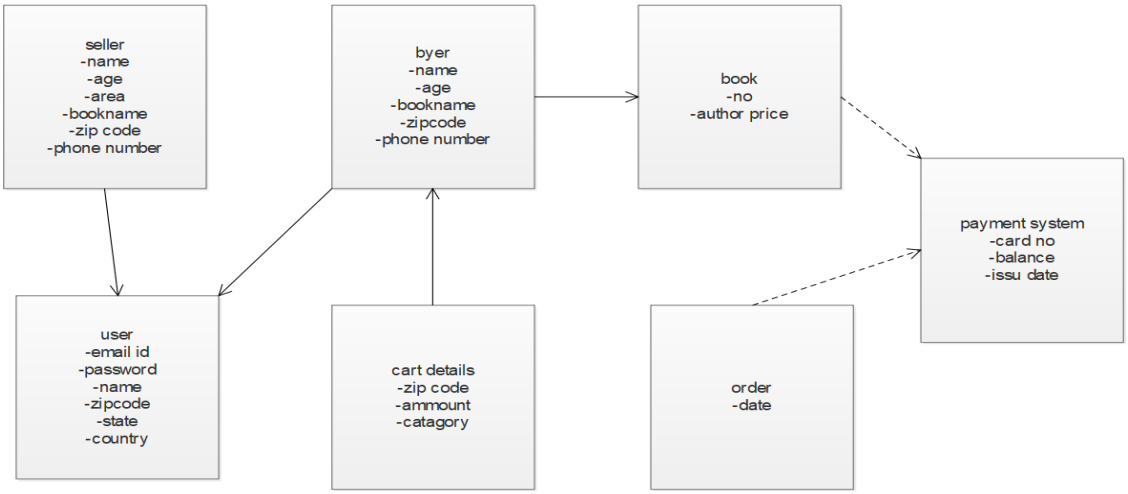
Client:

The Client work as the communication medium between the buyers and sellers. They have their own profiles. They also handle problems reported by the users. Receiving feedback from both buyer and seller and making them visible on the website is also another important characteristic of the client

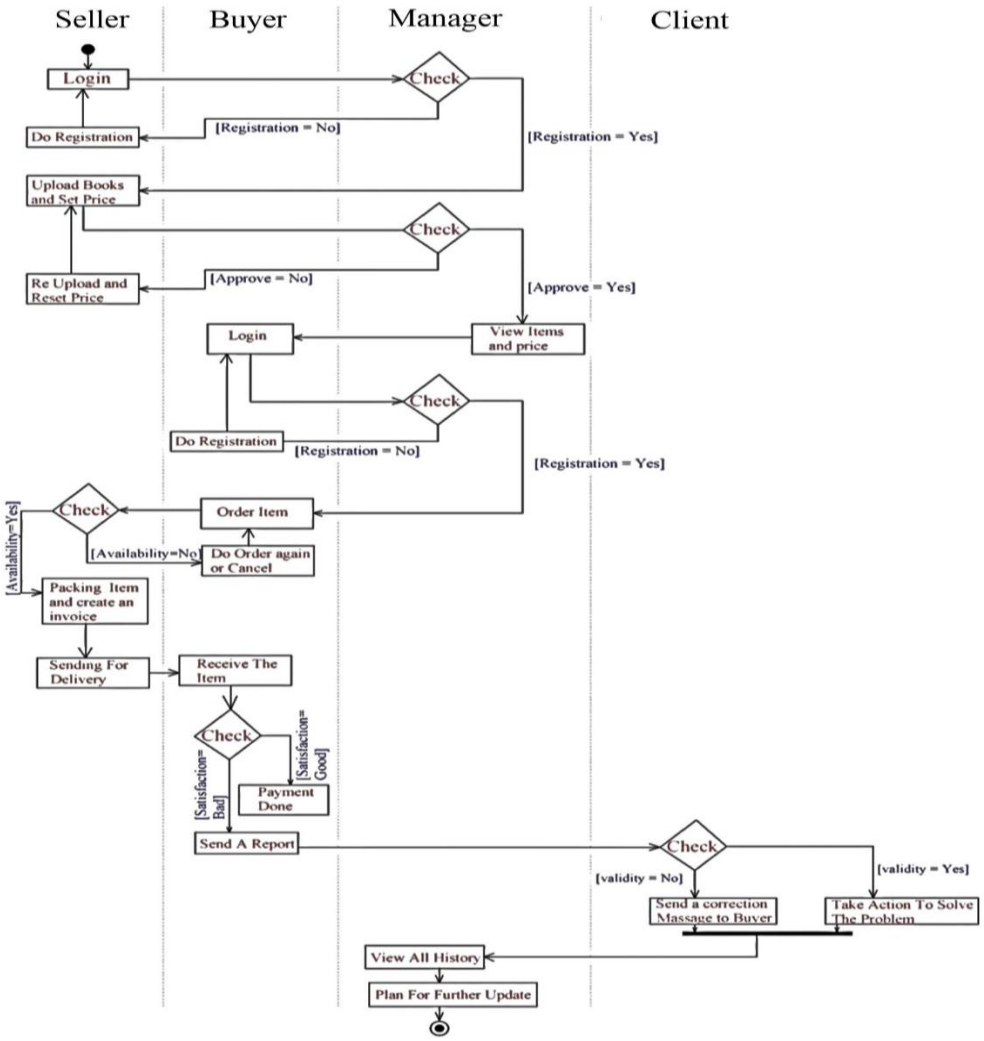
Use Case Diagram:



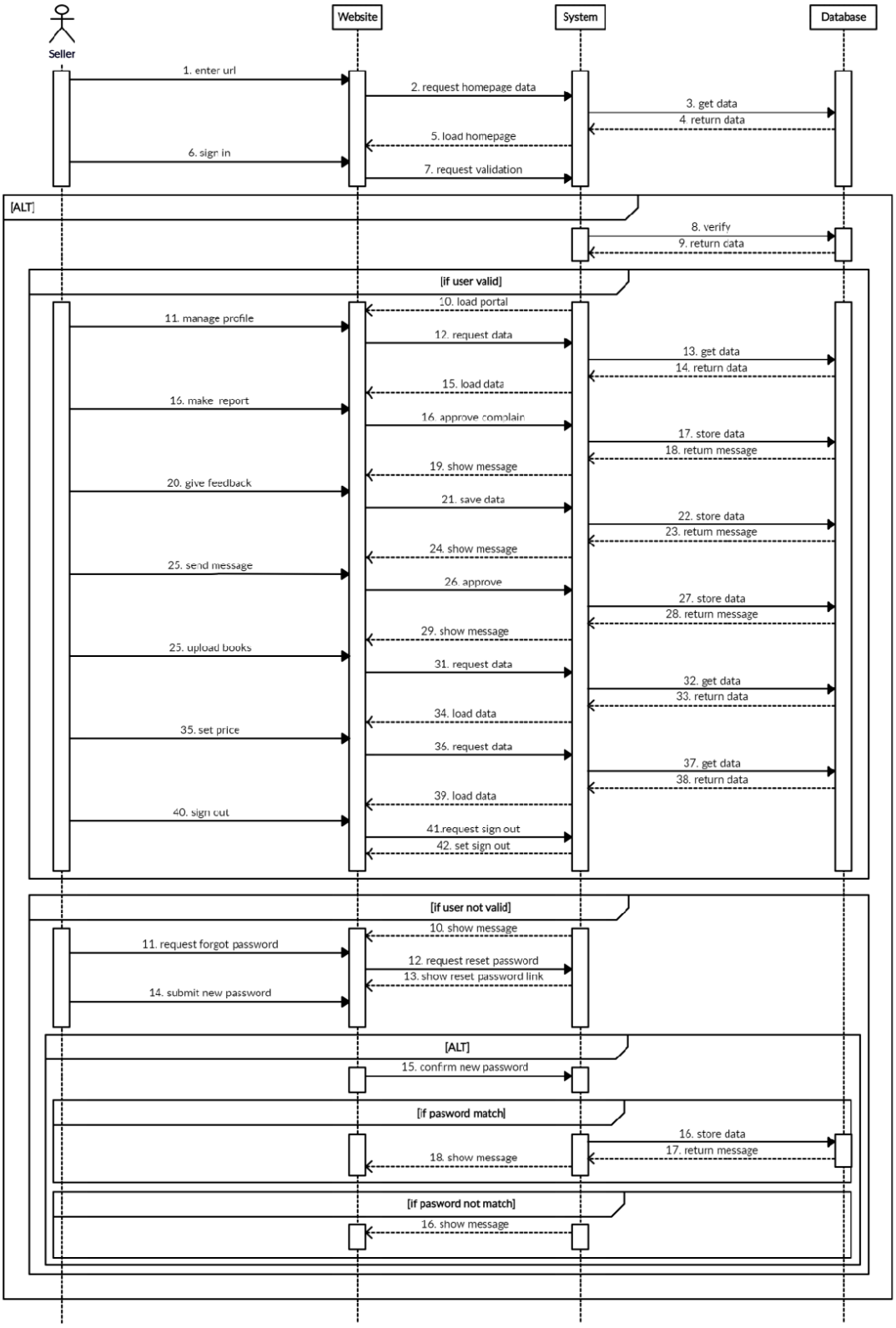
Case Diagram:

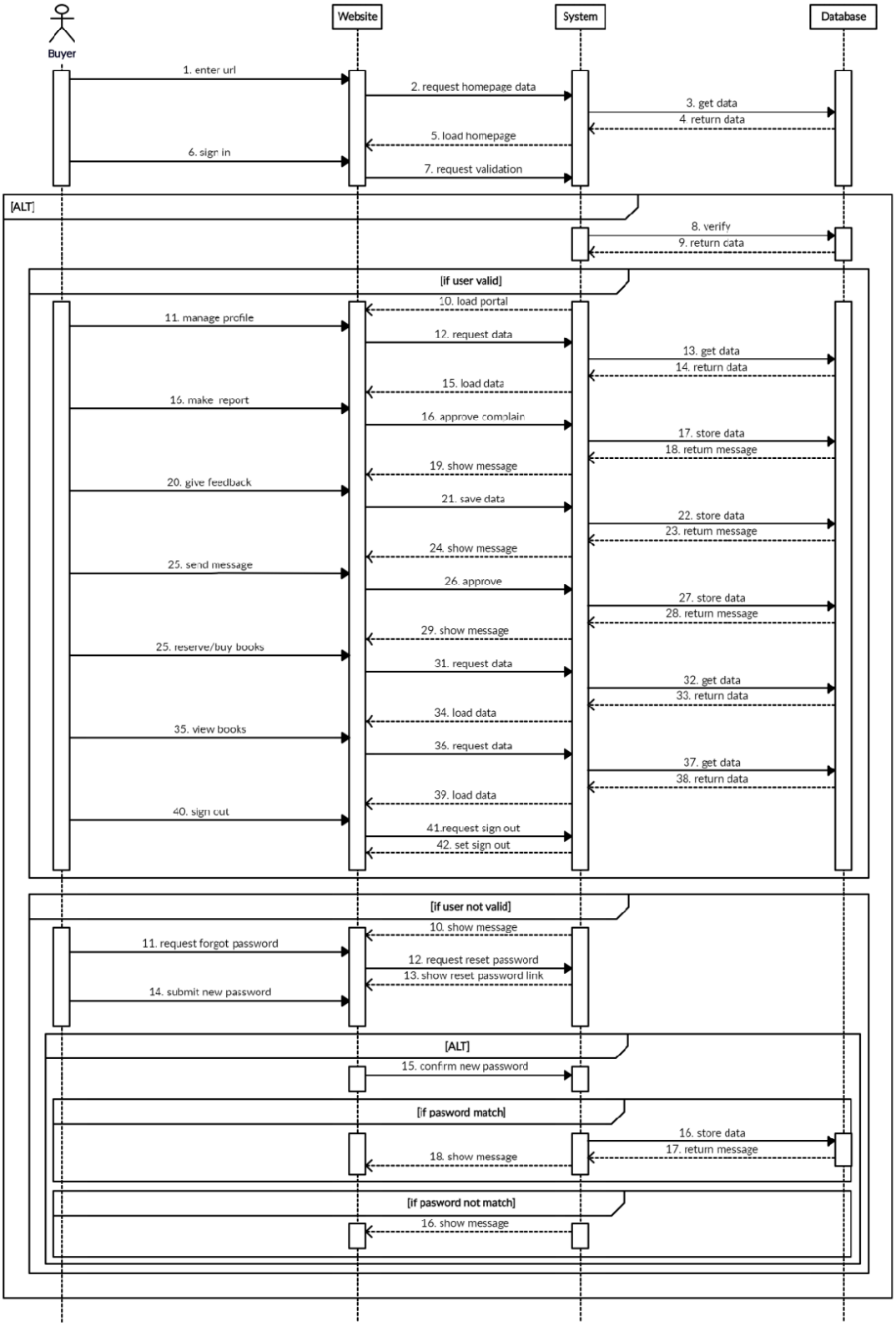


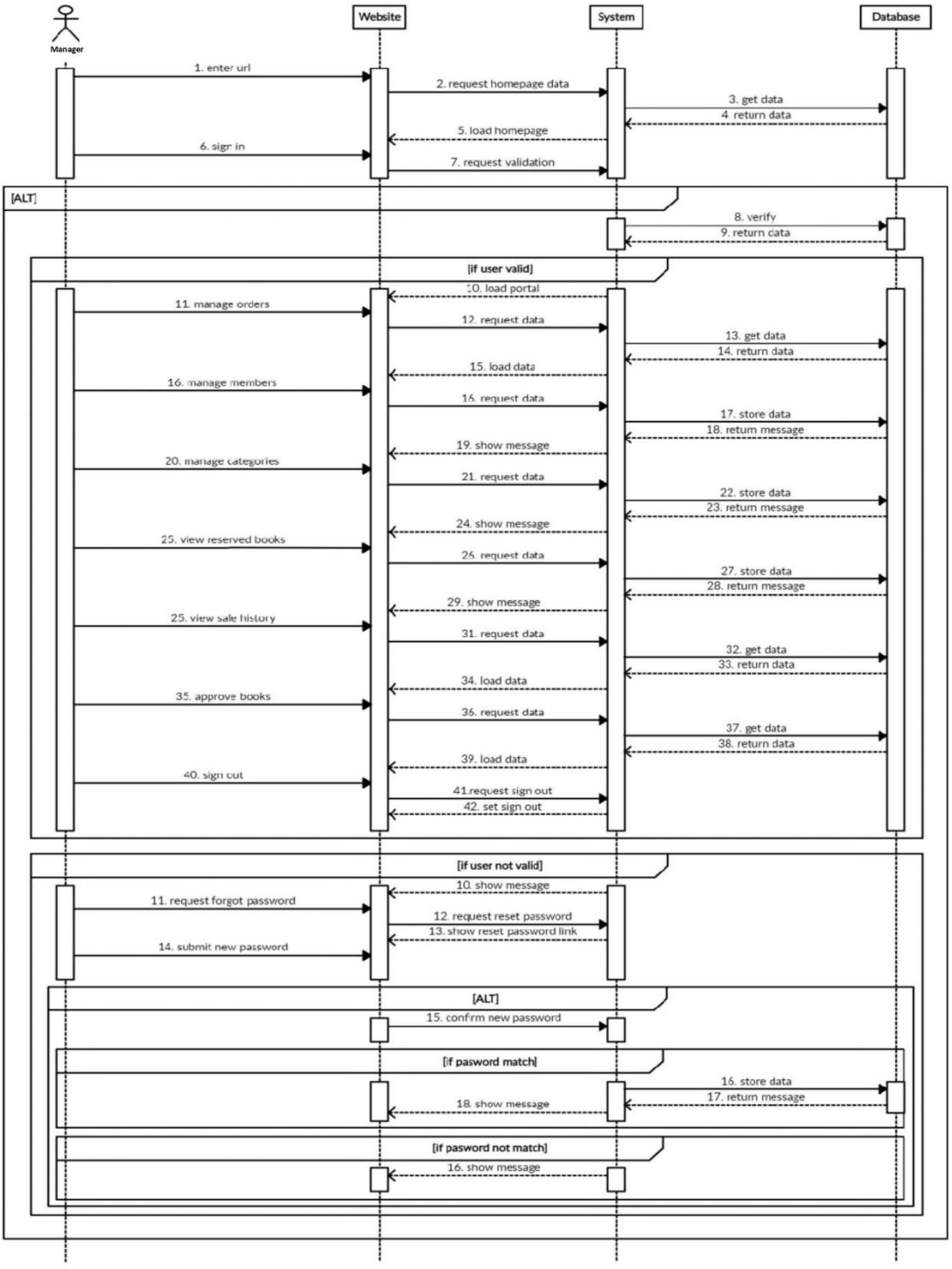
Activity Diagram:

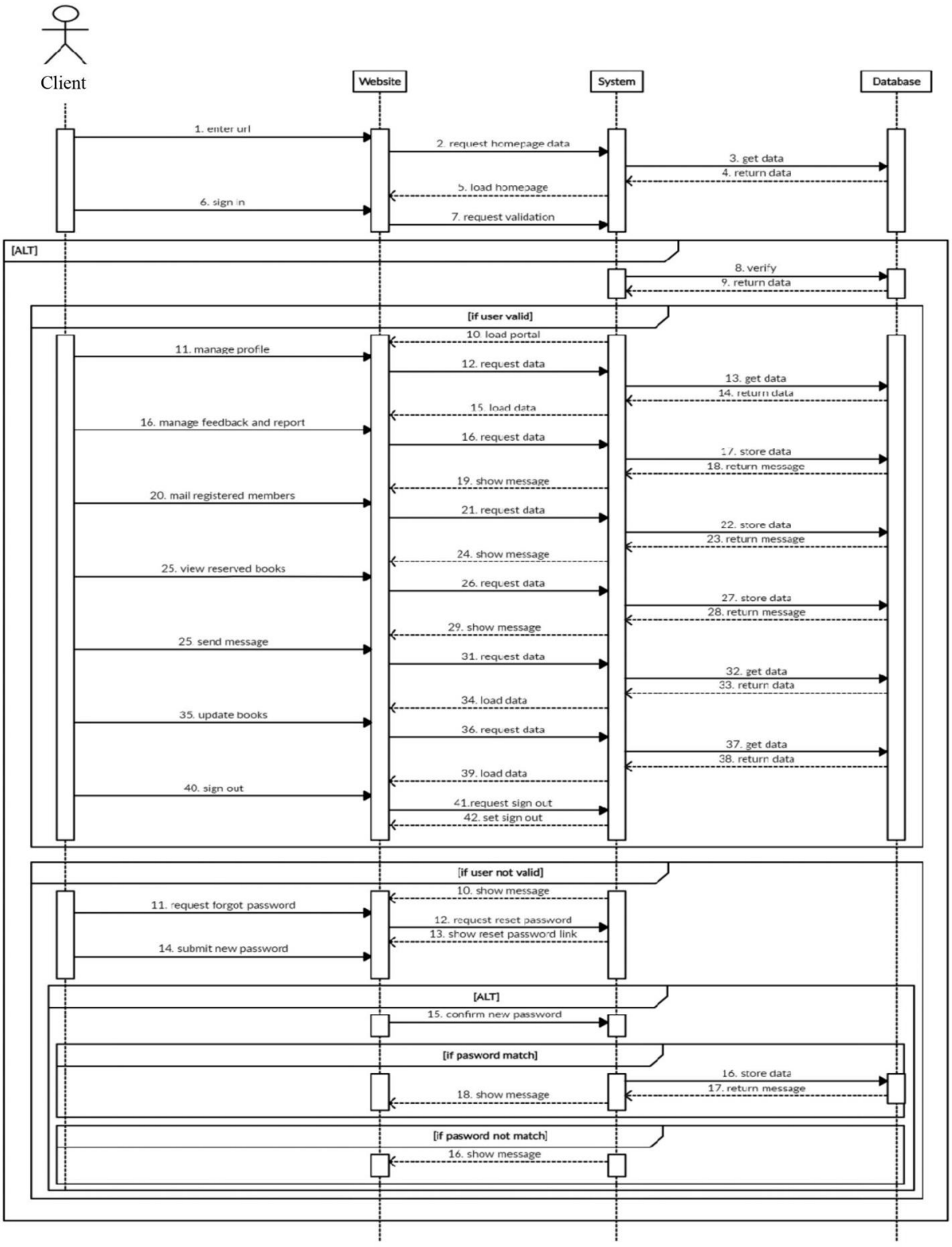


Sequence Diagram:

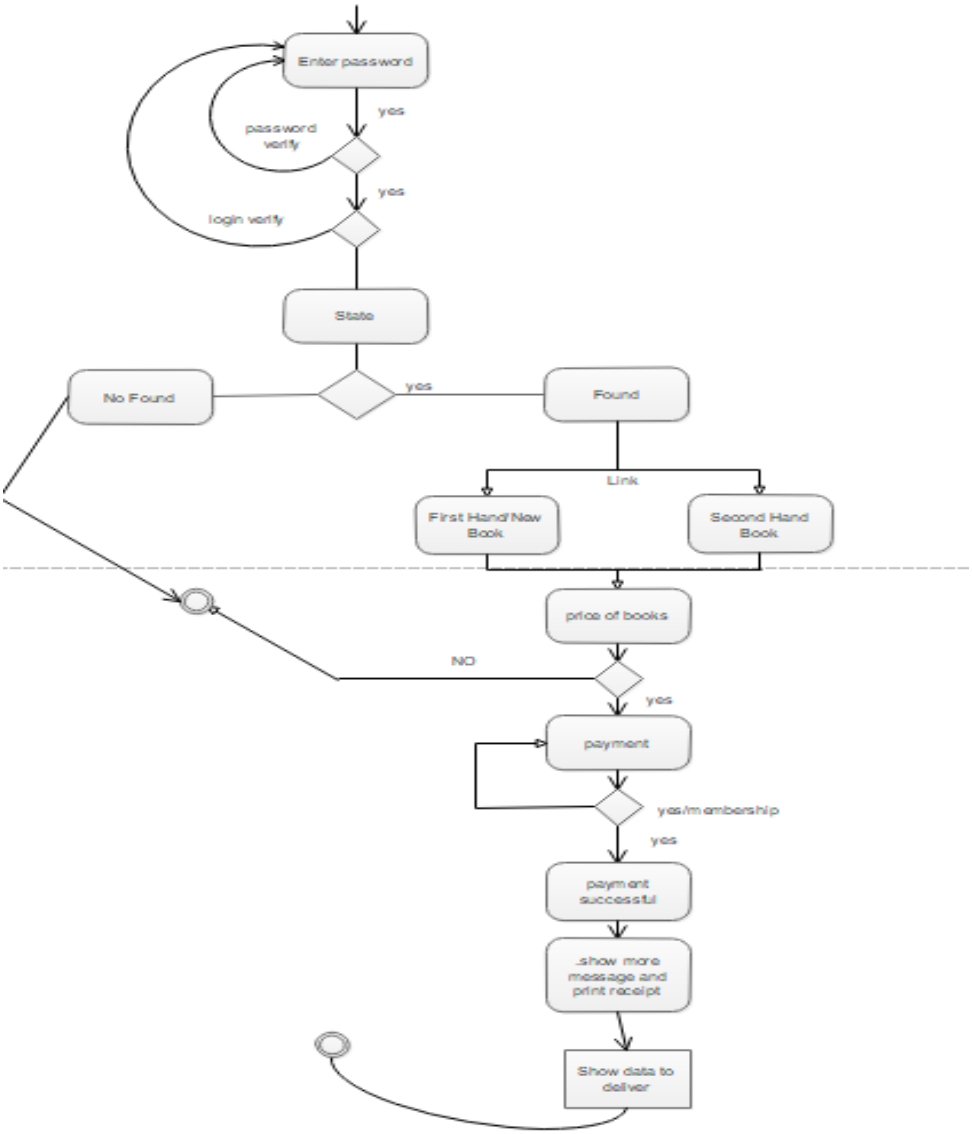



Buyer
Website
System
Database
1. enter url
2. request homepage data
3. get data
4. return data
5. load homepage
6. sign in
7. request validation
[ALT]
8. verify
9. return data
[if user valid]
10. load portal
11. manage profile
12. request data
13. get data
14. return data
15. load data
16. make report
16. approve complain
17. store data
18. return message
19. show message
20. give feedback
21. save data
22. store data
23. return message
24. show message
25. send message
26. approve
27. store data
28. return message
29. show message
25. reserve/buy books
31. request data
32. get data
33. return data
34. load data
35. view books
36. request data
37. get data
38. return data
39. load data
40. sign out
41.request sign out
42. set sign out
[if user not valid]
10. show message
11. request forgot password
12. request reset password
13. show reset password link
14. submit new password
[ALT]
15. confirm new password
[if pasword match]
16. store data
17. return message
18. show message
[if pasword not match]
16. show message


Manager
Website
System
Database
1. enter url
2. request homepage data
3. get data
4. return data
5. load homepage
6. sign in
7. request validation
[ALT]
8. verify
9. return data
[if user valid]
10. load portal
11. manage orders
12. request data
13. get data
14. return data
15. load data
16. manage members
16. request data
17. store data
18. return message
19. show message
20. manage categories
21. request data
22. store data
23. return message
24. show message
25. view reserved books
26. request data
27. store data
28. return message
29. show message
25. view sale history
31. request data
32. get data
33. return data
34. load data
35. approve books
36. request data
37. get data
38. return data
39. load data
40. sign out
41.request sign out
42. set sign out
[if user not valid]
10. show message
11. request forgot password
12. request reset password
13. show reset password link
14. submit new password
[ALT]
15. confirm new password
[if pasword match]
16. store data
17. return message
18. show message
[if pasword not match]
16. show message


Client
Website
System
Database
1. enter url
2. request homepage data
3. get data
4. return data
5. load homepage
6. sign in
7. request validation
[ALT]
8. verify
9. return data
[if user valid]
10. load portal
11. manage profile
12. request data
13. get data
14. return data
15. load data
16. manage feedback and report
16. request data
17. store data
18. return message
19. show message
20. mail registered members
21. request data
22. store data
23. return message
24. show message
25. view reserved books
26. request data
27. store data
28. return message
29. show message
25. send message
31. request data
32. get data
33. return data
34. load data
35. update books
36. request data
37. get data
38. return data
39. load data
40. sign out
41.request sign out
42. set sign out
[if user not valid]
10. show message
11. request forgot password
12. request reset password
13. show reset password link
14. submit new password
[ALT]
15. confirm new password
[if pasword match]
16. store data
17. return message
18. show message
[if pasword not match]
16. show message

State Chart Diagram:



Conclusion: Diagram is a symbolic representation of information using visualization techniques. Diagram is a graphic designed to communicate information. A diagram is essentially a picture that communicates information. You can often explain statistical data and other important information, like how a particular system functions, quickly and with less of a strain on resources. In our project we did 5 type of diagram to show the process of Online Bookshop Management System. We get a great experience by doing this project together .We increase our knowledge deeply on this topic. We also enjoy a lot by working on this project.