



Software Engineering Report

YourBooks

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1.0 INTRODUCTION

1.1 PURPOSE OF DOCUMENT

The purpose of document is to give a detailed description of the requirements for the YourBooks(YB) web application . it will illustrate the purpose and features of the system . it will also explain system constraints ,interface and interactions with other external applications . This document is primarily intended to be proposed to the customer and a reference for developing the system for the development team .

1.2 SCOPE

The yourBooks is a web-based application which allows the user to reading His favorite Books ,Moreover ,the user can leave his own review about the content , As well as , communicating with admin and writers within website platforms .

The website will be moderated by admin , The main responsibilities of admin are to improve and provide new features and updates on regular basis .

1.3 GLOSSARY

Term	Definition
Normal Users	Regular users who can't chat with admin and Writers and can't comment on Book
Writers Users	users who con chat with admin and Writers and can comment on Book
Admin User	User can do add Category , edit Category , add Book , anddetailed in use cases

1.4 OVERVIEW OF DOCUMENT

The next chapter , the Overall Description section , of this document gives an overview of the functionality of the product . it describes product prospective.

As well as ,User characteristics , operating environment , and implementation of system

The third chapter , Requirements Specification section , of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product.

2.0 OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

It is web based system implementing client-server model . the project provides a very good user experience , allows the user to read their favorite books and share their opinions across the internet .

The following are the main features that are included in project :

- **Control Panel** : Website admin can manage website from this pane.
- **User account** : The system allows the users to create their accounts on the website and provides features of updating ,it depends on the user type
- **Search**: search is simply local search engine based on book keywords
- **Availability**: Website will be available for users for 24 hours per day. Also, exclusive book will be added once they are released.
- **Rating and Votes** :Users can rate the book they read it if they want . Also they can like or dislike the book .
- **Comments/Reviews** : Users can add their own opinion/review about the book if they wish.
- **Online users**: Users can see number of online users on website.
- **Messages** : Users can send a message to developers via website.

2.2 USER CHARACTERISTICS AND CASESS

The users should have the basic knowledge of operating the internet and to have access to it

The admin(developer) should have knowledge of internet, web development tools and scripting languages and designing tools.

2.3 OPERATING ENVIRONMENT :

There is no restriction on the environment that the system can work on it. The system can work in any browser without any problems.

2.4 DESIGN AND IMPLEMENTATION :

The programming language that will be used for front end is HTML, CSS and Bootstrap. And for back end, PHP, JS, Ajax and jQuery will be used for that purpose.

2.5 ASSUMPTION AND DEPENDENCIES:

Users are supposed to register on website, and have his/her own account, and then he can log in to the website and interact with the system to have full user experience. Unregistered users, won't have the features that registered user has.

3.0 REQUIREMENTS SPECIFICATION

3.1 SYSTEM AND USER REQUIREMENTS

3.1.1 Register

If users want to have full user experience on the website, they must create account.

3.1.1.1 To register on the website, users should navigate to registration page which can be access by navigation bar on the top of page.

3.1.1.2 Users shall fill several information in order to complete own account on the website, such as: User's first name, User's last name, User's password. Lastly, user must click on submit.

3.1.1.3 System automatically verify the inputs that been given by the user through form, and check them if they satisfied the predefined constraints. For example, user should not add number to his first or last name.

3.1.1.4 once system finishes from validation process, it automatically sends the information to the database, and database creates record for that user within users table.

3.1.2 Login

If users want to try features that website provides. They, must login by providing their email and password.

3.1.2.1 To login on the website, users should navigate to login tab which can be access by navigation bar

3.1.2.2 Users shall fill two inputs in order to login, one for their email, and one for their password

3.1.2.3 on submit, system automatically stores the inputs into variables, then it sends them to the database, and predefined function in the database receive these details, and verify if they exist in the database or not. If they exist in the database. The function, should update users' status to Online as well as users' session. Then it returns users' username and role

3.1.3 Update profile

If users' want to update their details on website. They, should navigate to their profile. And, update their information

3.1.3.1 Users' navigate to their profile by clicking on profile button on navigation bar

3.1.3.2 System retrieve user's information and display it on the form. Then, users can update the required information and submit.

3.1.3.3 After submitting, the system detects what user has changed and update it in the database.

3.1.4 Search

If users want to search for specific movie. They, should navigate to movie list and enter movie's name or part of its name.

3.1.4.1 System matches the input that been given from user with current books which stored in the database and returns it

3.1.5 Chat

If writers users want to contact admin or other writers . They, can visit their profile and click on chat tab, choose contact, start messaging.

3.1.5.1 Once chat window is loaded user should click on contact button, then choose from list Writers and admin they want to talk with.

3.1.5.2 After users choose the developer. Conversation will be established and retrieve if there are messages already exists in the conversation.

3.1.5.3 User sends the message by filling input and submit it.

3.1.5.3 System stores the message into database and displays it in the conversation.

3.1.6 View profile

If users want to view their information or their statistics on the website then can visit their profile.

3.1.6.1 Once user visit his profile. Two lists will be loaded which contain users' statistics and information

3.1.7 View Books menu

If users want to read Books. They can navigate to Books list in home page. Choose, the category they want, and click on Book to visit Book's page and read Books details and read it.

3.1.8 Comment on Book

If Writer users want to comment on a Book when they finish reading it by filling form and submit it.

3.1.8.1 user shall scroll down to the comment section. Then, he should provide his comment in on the input. And, submit it.

3.1.8.2 System receive the input from users and verify it. Once this process finishes, the system sends query to the database to create record for this comment. And, displays it in the comment section.

3.1.9 Rate a Book

If users want to rate book from 1 to 5. They should click on the number of stars they want.

3.1.9.1 System detects the number of stars that user have to the movie. Then, it sends query to database to create record for this rate.

3.1.10 Like /Dislike Book (Review)

If users want to like or dislike Book after reading it, users can add one review only.

3.1.10.1 Users click on Thumbs up button or Thumbs down button.

3.1.10.2 System automatically detects users' choice and sends a query to database contains users' choice and database creates record.

3.1.11 Add/Edit/Delete Books

If staff want to add new movie or edit current movie or delete movie. They should, navigate to movies table in control panel.

3.1.11.1 Staff access control panel by clicking on Control Panel button in the navigation bar.

3.1.11.2 Once they in control panel, they should navigate to books table by button on the side navigation bar.

3.1.11.3 System display table contains all current books that stored in the database, from this table. Admin can, perform several actions, such as delete a movie in this case, the system sends request to the database to delete that Book. Or to edit Book, in this case, the system sends request to database to retrieve all details related to the book and it loads them into form, where user can edit the detail he wants. And, submit.

3.1.11.4 System automatically send request to the database to perform the update that applied.

3.1.12 Edit/Delete users

If admin want to edit user or remove user. They should, navigate to users table in control panel.

3.1.12.1 admin access control panel by clicking on Control Panel button in the navigation bar. Then, System verify them by comparing their roles with admin role. Else, they will be rejected and redirected to home page.

3.1.12.2 Then, admin navigate to users table, and system automatically loads all existing users by sending request to database to retrieve all records of users.

3.1.12.3 Also, system adds several additional buttons beside users' details, such as active or inactive, this is used to shutdown user's account or activating it, this is edited in case of user broke website policy. Moreover, they can update users' roles from the table as well as deleting them.

3.1.12.4 If admin want to edit users, they should click on users' username. Then, the system redirects admin to another page, and in same moment, it retrieves details of the user they want to edit. And, loads them into form. So, admin can edit what they want.

3.1.12.5 When user clicks on submit, system sends request to the database to update the details that changed.

3.1.13 Add /Edit /Delete categories

If Admin want to add new category, edit category, or remove category. They should, navigate to categories table in control panel.

3.1.13.1 Admin access control panel by clicking on Control Panel button in the navigation bar. Then, System verify them by comparing their roles with Admin role. Else, they will be rejected and redirected to home page.

3.1.13.2 Then, Admin navigate to categories table, and system automatically loads all existing categories by sending request to database to retrieve all records of categories.

3.1.13.3 If Admin want to delete category, they should click on delete button from table, and system automatically sends request to database to delete the record. Also, in same moment, category will disappear from the table.

3.1.13.4 If Admin want to add category, they scroll down and fill small form which asks for category name, then submit it, after that, system validation category name, for example, category name should not have any numbers. Then, after validating process is done, it sends request to the database to add the category.

3.1.13.5 If Admin want to edit category, they should click on edit button from the table, and system will automatically loads the category details into form. So, user can update category name. And, validate the name then sends request to the database to update the record.

3.1.14 View/Delete comments

If Admin want to view or delete comment, they should navigate to comments table in the control panel.

3.1.14.1 Once Admin visits the comments table. System automatically, loads all comments from the database. And, displays them into table

3.1.14.2 From this table users can view comment or delete comment by clicking on delete button.

3.1.14.3 Once delete button is clicked, system sends request to the database to delete that comment, and system removes it from the table as well.

3.1.15 View/Delete reviews

If Admin want to view or delete reviews, they should navigate to reviews table in the control panel.

3.1.15.1 Once Admin visits the reviews table. System automatically, loads all reviews from the database. And, displays them into table.

3.1.15.2 From this table users can view review or delete review by clicking on delete button.

3.1.15.3 Once delete button is clicked, system sends request to the database to

1.1 3.2 DETAILED NON-FUNCTIONAL REQUIREMENTS

1- Speed: The transactions and querying between Server and Database is very fast. This is achieved by, designing relational database, and using schema objects to reduce the time that server needs to perform process.

2- Availability: The website will be available for 24 hours per day. This is achieved by configuration the server in efficient way.

3- Portability: The website can be access by any device and any operating system. This is achieved by, using responsive design that it's compatible with any device.

4.0 SYSTEM MODELS

4.1 USE CASES:

4.1.1 Use case: Registration

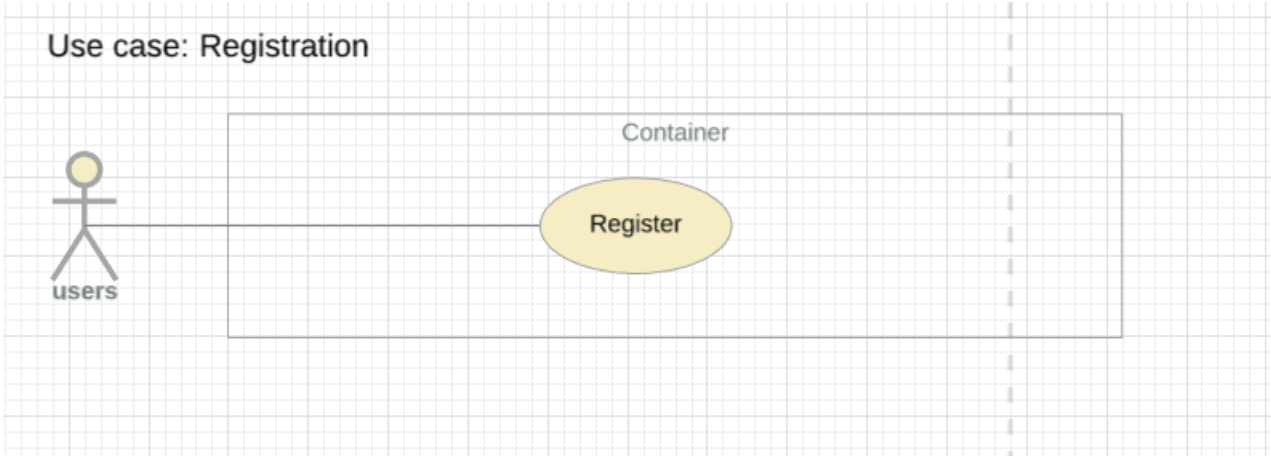


Figure 1 use case Registration

4.1.2 Use case : Login

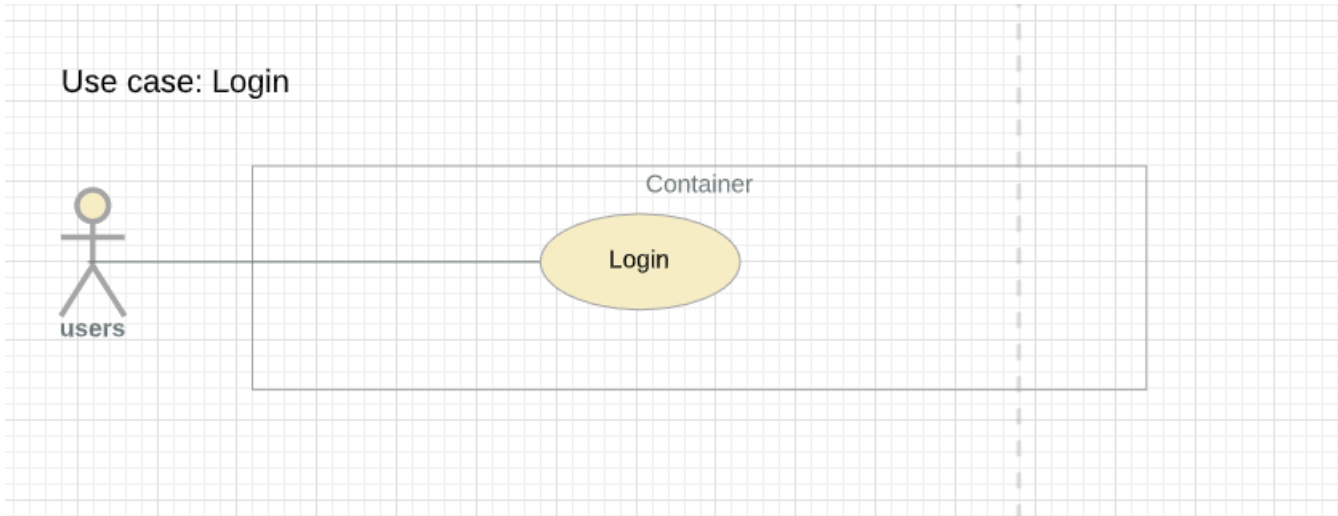


Figure 2 use case Login

4.1.3 Use case : normal users

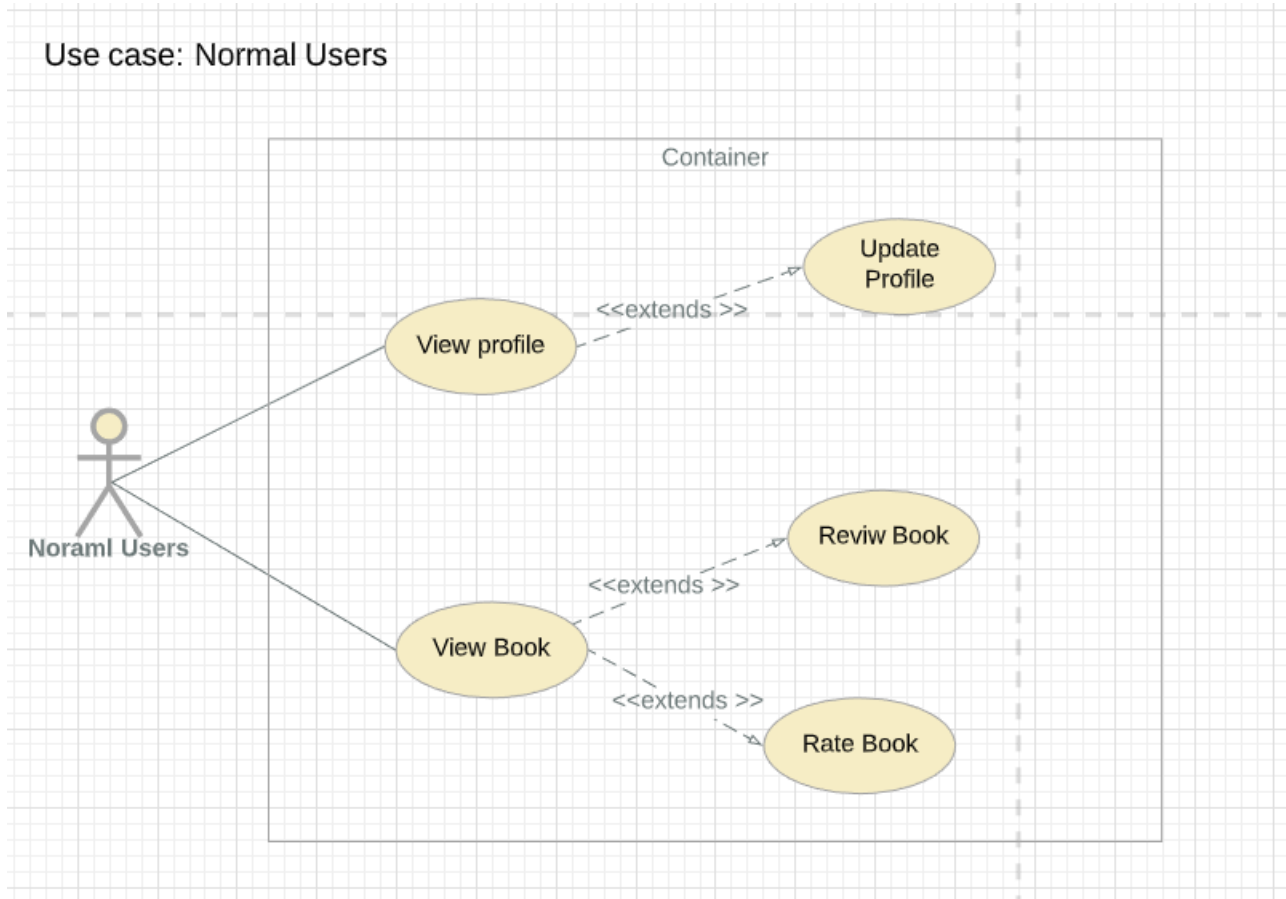


Figure 3 use case for Normal Users

4.1.4 Use case : writers users

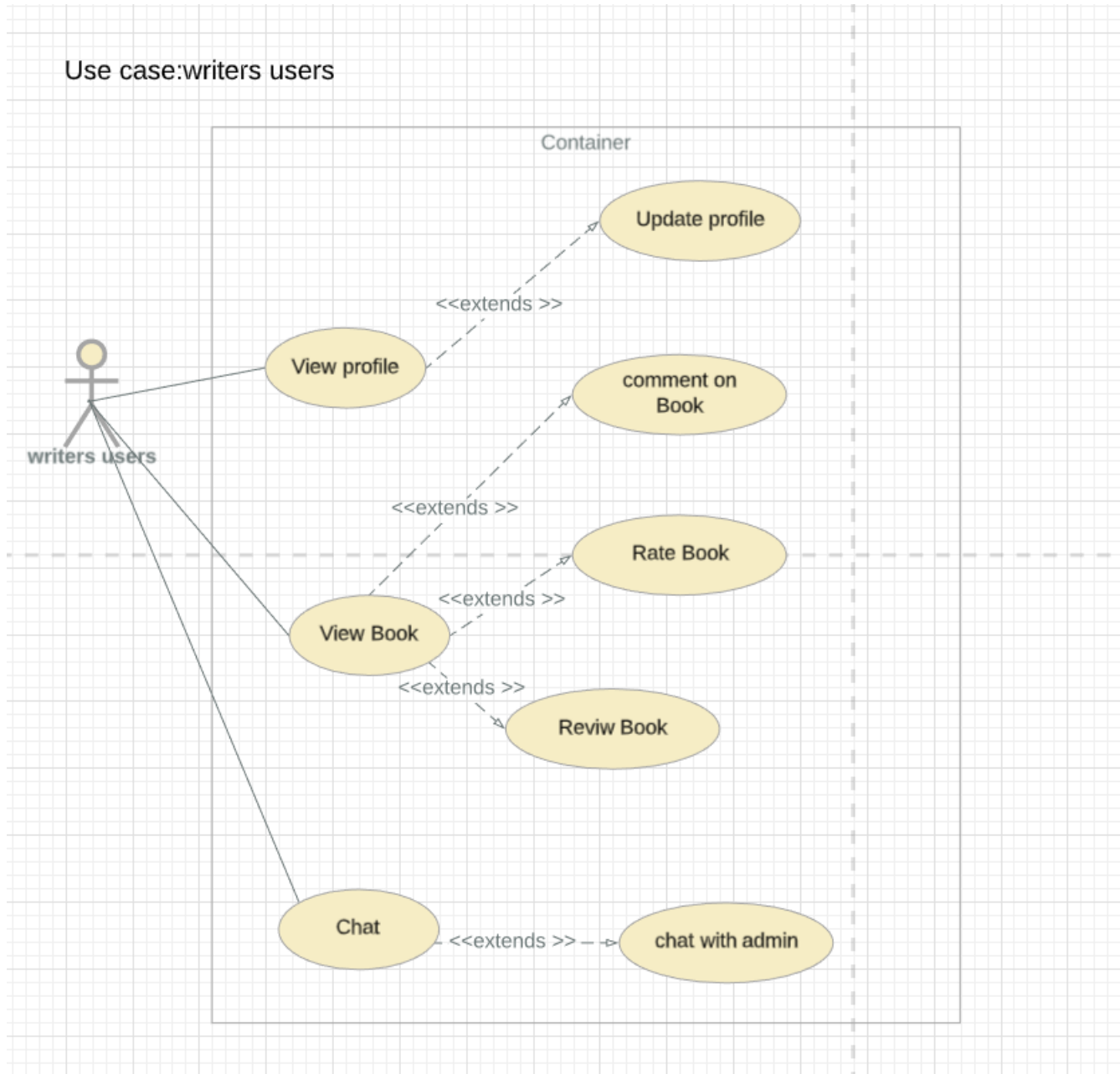


Figure 4use case for Writers Users

4.1.5 Use case : admin user

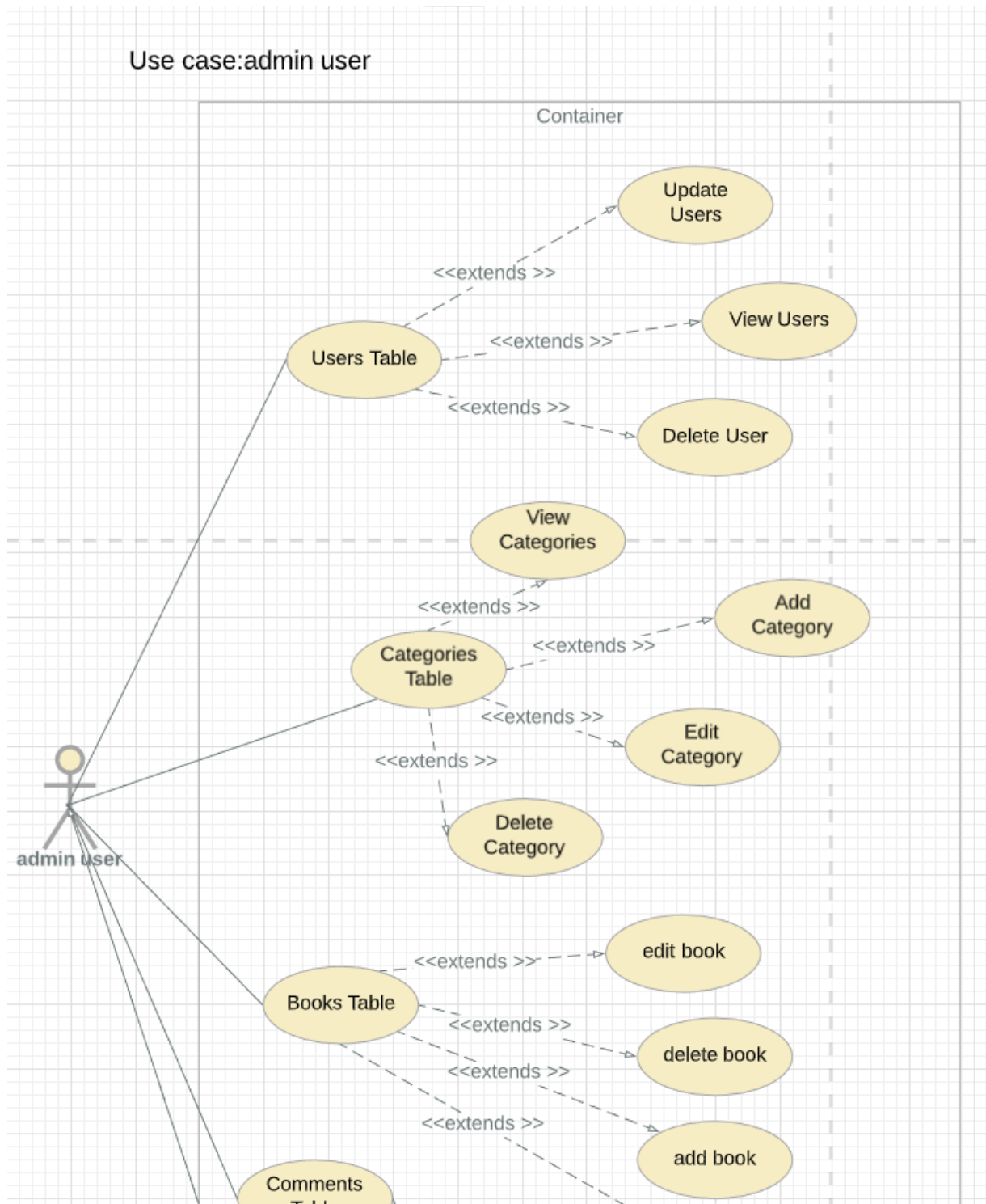


Figure 5 use case for admin user (1)

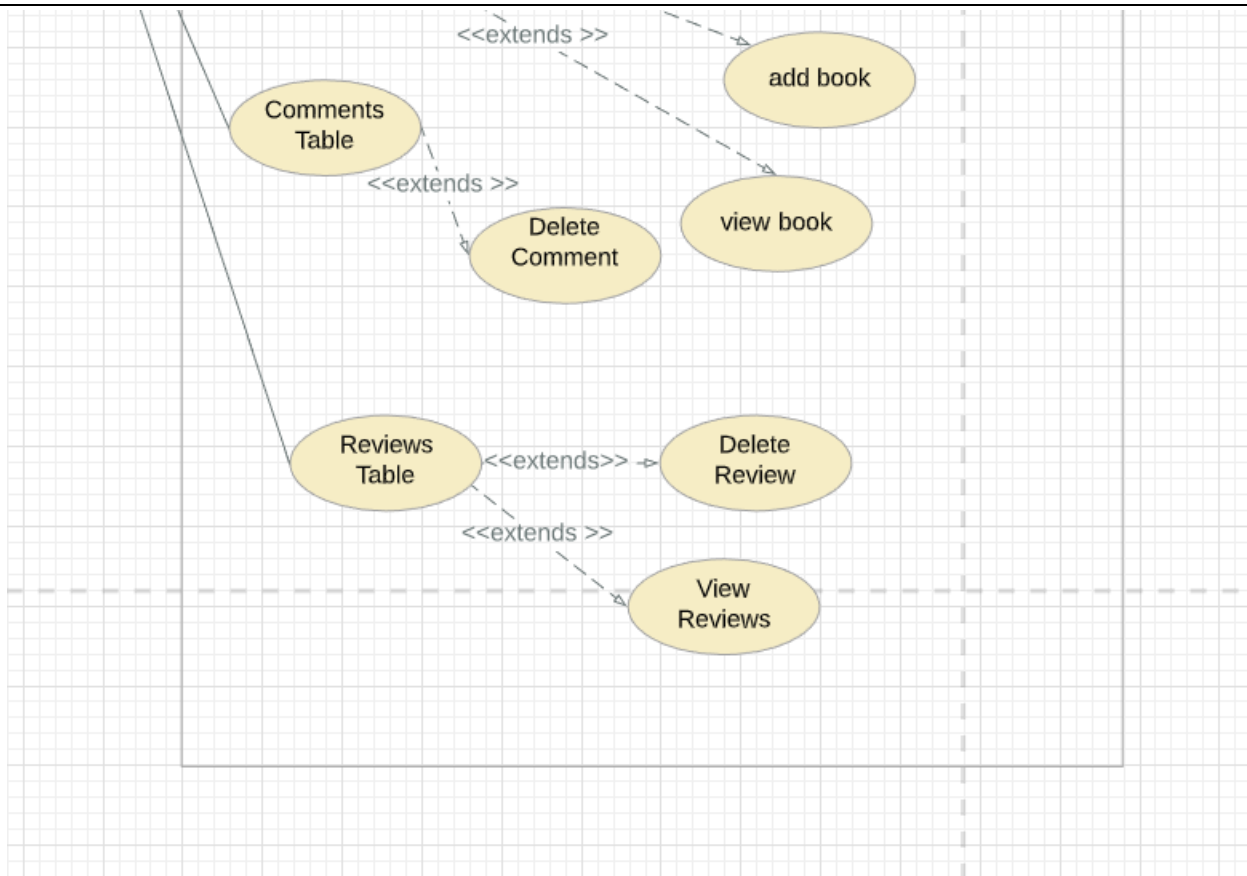


Figure 6 use case for admin user (2)

4.2 SEQUENCE DIAGRAMS:

4.2.1 LOGIN

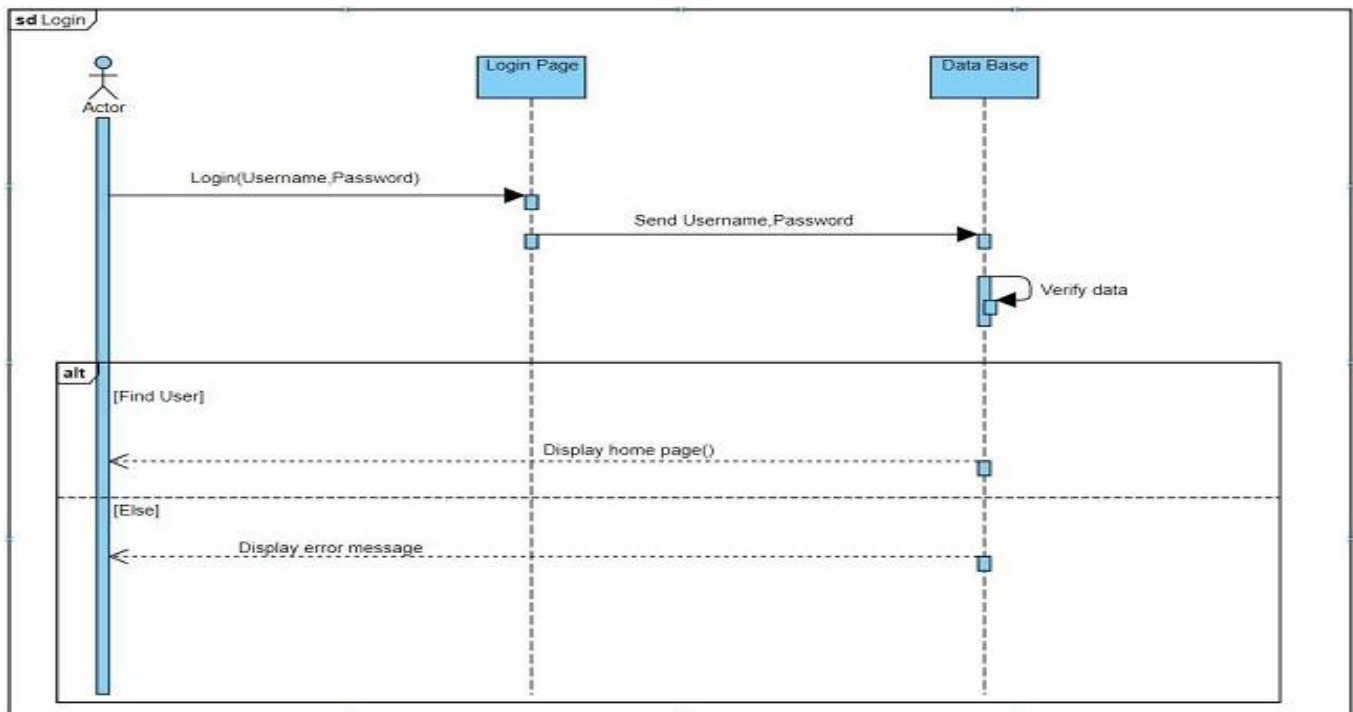


Figure 7 sequence diagram login

4.2.2 Registration

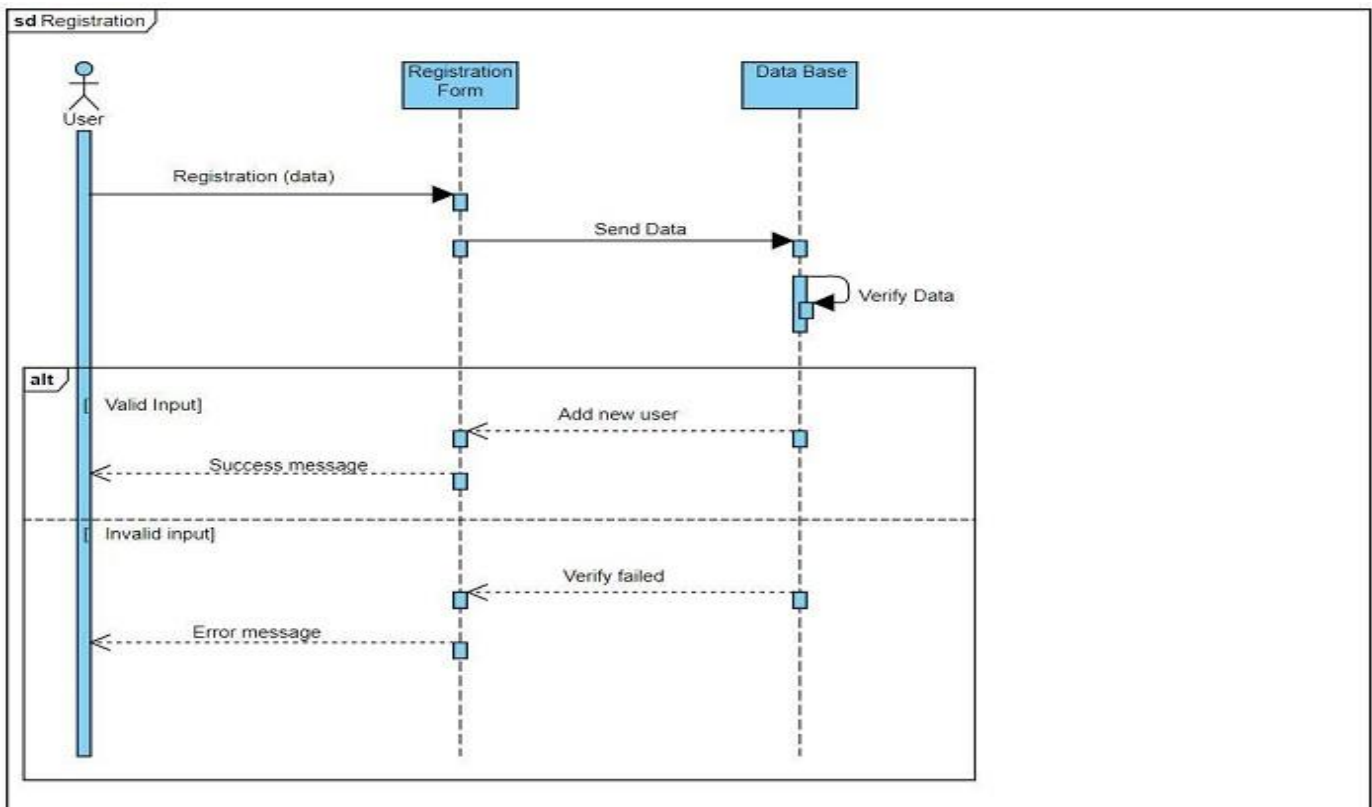


Figure 8 sequence diagram registration

4.2.3 View Book

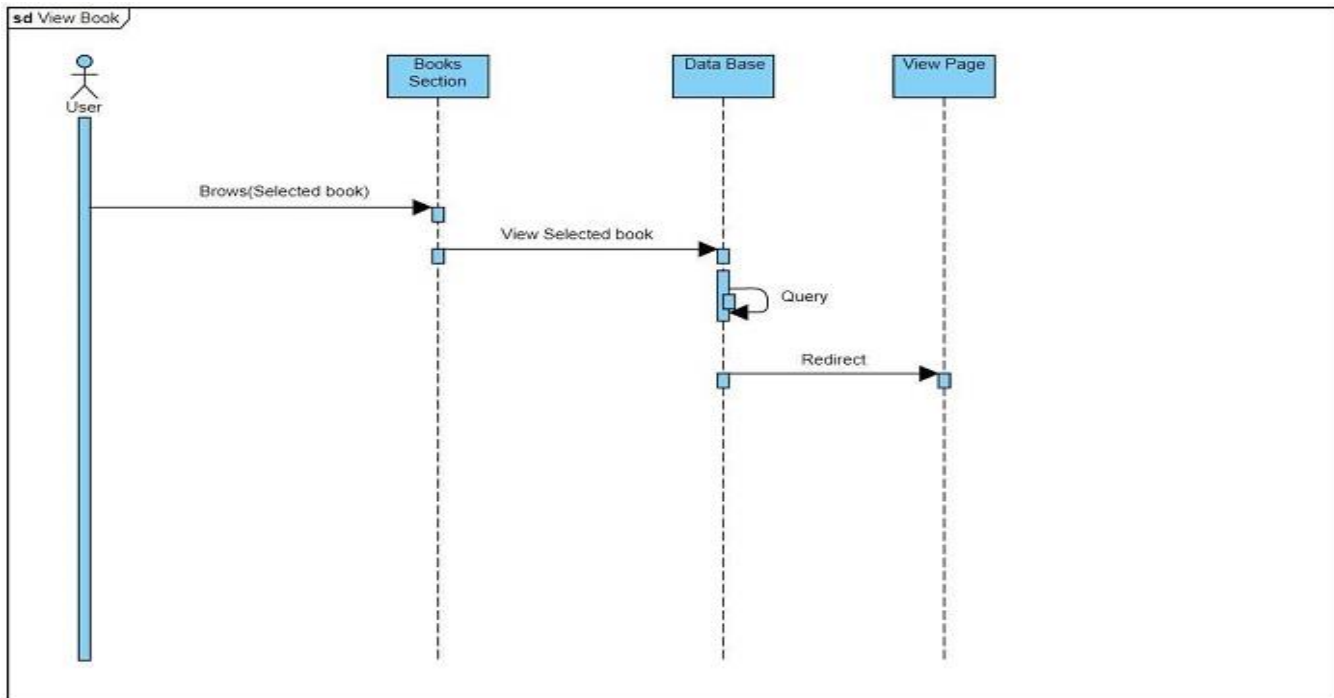


Figure 9sequence diagram View Book

Use Case ID	1
Use Case Name	View Book
Actor	Regular or Admin or Writer
Use Case Description	View any book you want that exists in the database
Precondition And	With no condition
Normal Flow	View book if the user logged in
Alternative Flow	Dose not let user to view the book if not logged in
Post Condition	Redirect to view page

Table 1 use case View Book

4.2.4 Search Book

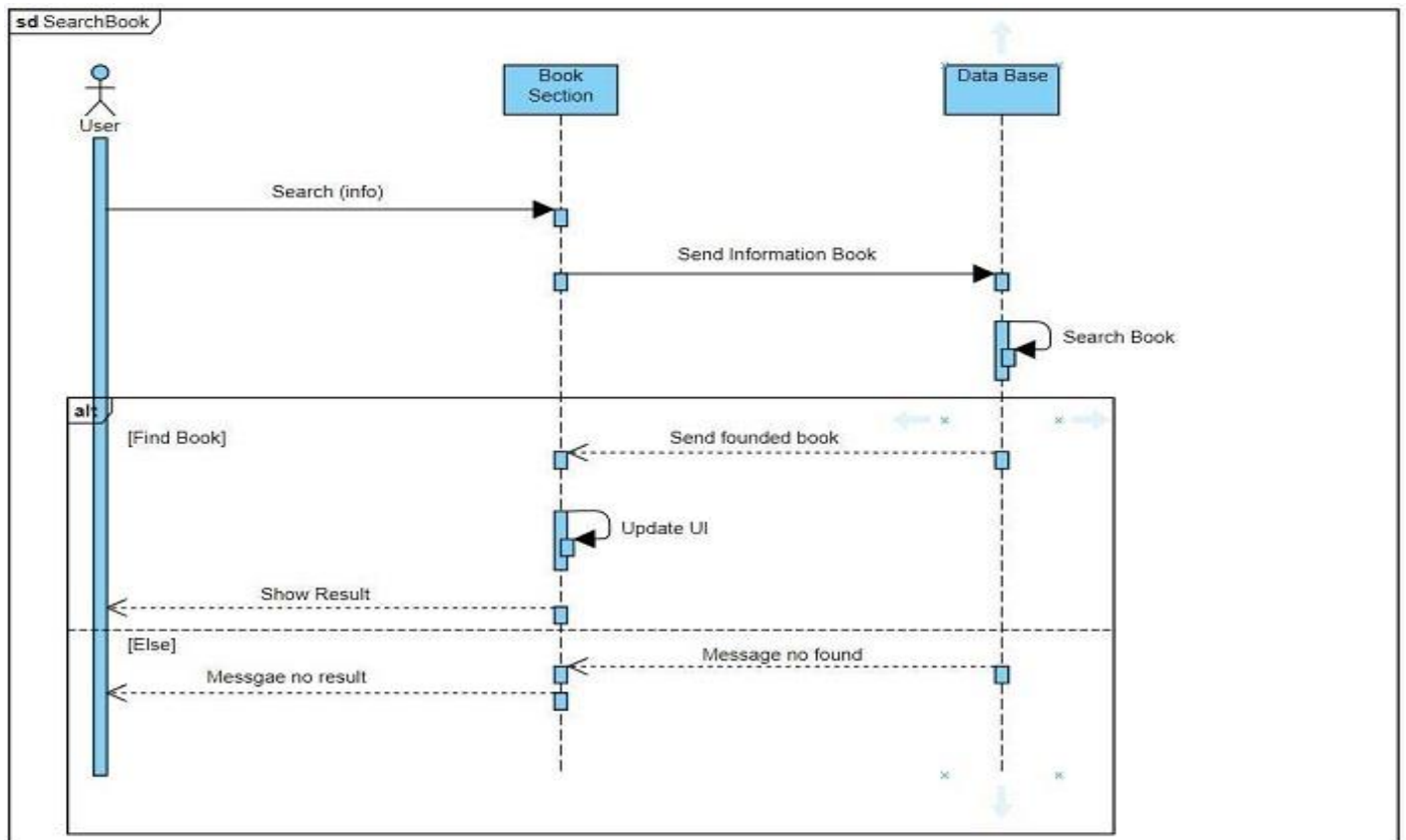


Figure 10 sequence diagram search Book

Use Case ID	2
Use Case Name	Search Book
Actor	Regular or Admin or Writer
Use Case Description	Search about books
Precondition And	Search about book via its name
Normal Flow	if book name is founded in data base, And if not nothing will be appeared
Alternative Flow	
Post Condition	section will be updated with the needed one

Table 2 Table 1 use case search Book

4.2.5 Update profile:

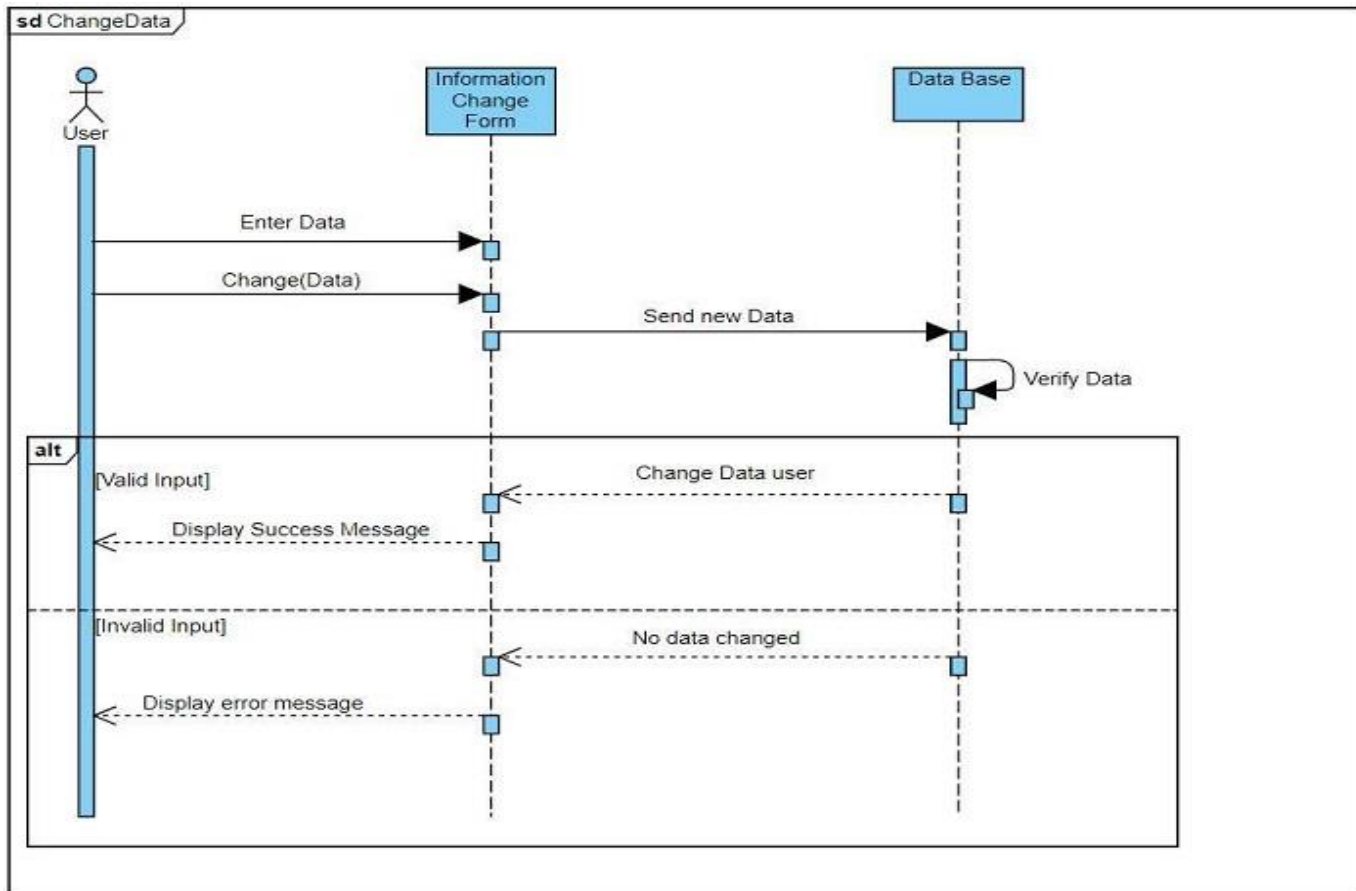
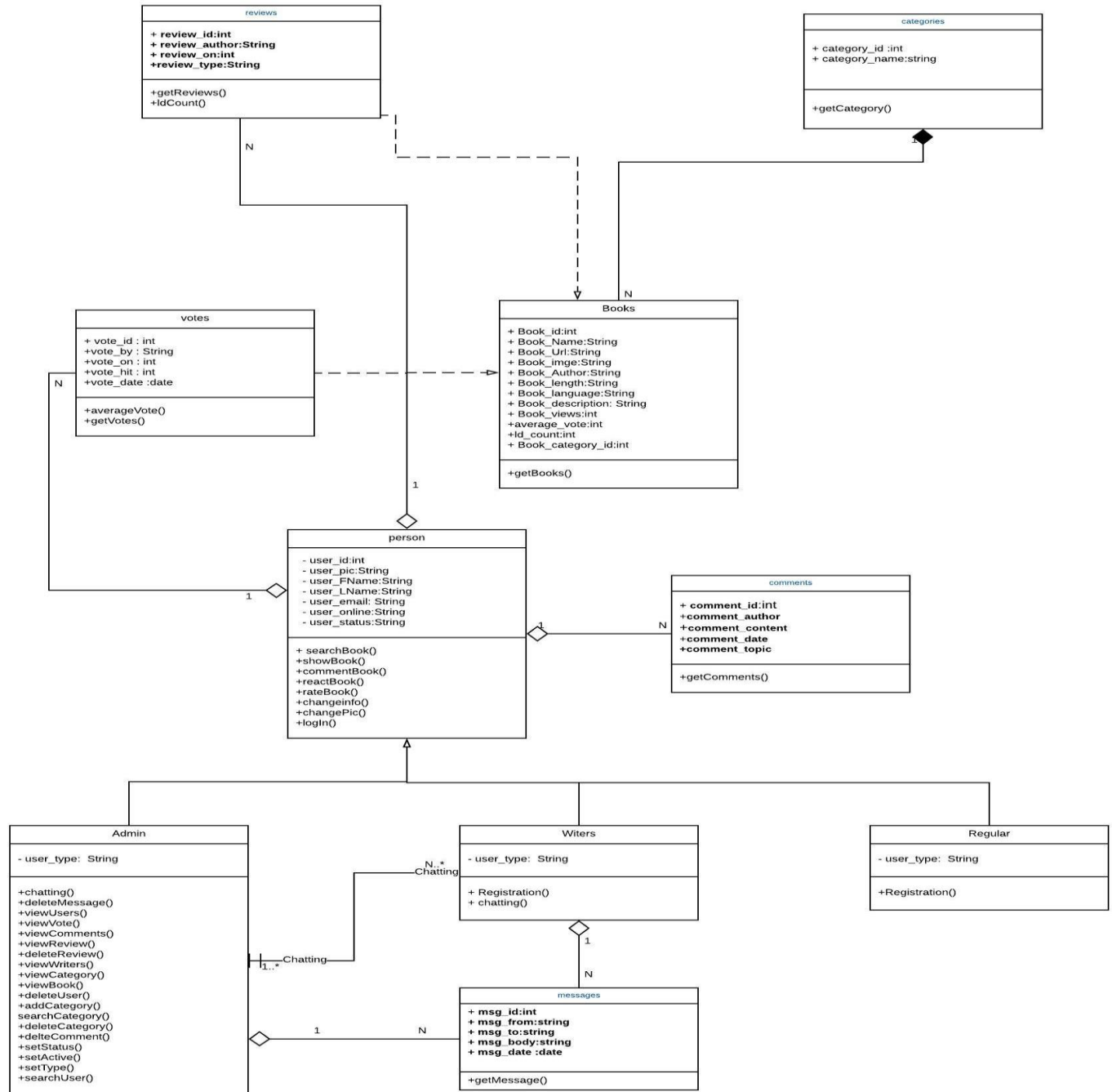


Figure 11sequence diagram Update profile

Use Case ID	3
Use Case Name	Update profile
Actor	Regular or Admin or Writer
Use Case Description	Changing information of user if he wants
Precondition And	Preparing a new data to enter it instead of the current data
Normal Flow	Valid data
Alternative Flow	Invalid data
Post Condition	Change data to new data that entered

Table 3 Table 1 use case Update profile

4.3 Class diagrams



https://www.lucidchart.com/documents/edit/09fc16cc-0102-4f84-a16d-32cea38d4803/0_0

5.0 CONCLUSION

YourBook Nothing else than reading your fav. book ,like or dislike it,comment it , and rating it, thats all you can do it after you login to your account.

The writer has advantage that any wrtiter can chatting with the adimin of the website,to make some edit on his book or something else.

There is only one admin of the website that can made any edit or delete or add operation,the admin also can use the website like normal user.

What are the benifits of bulding a plan for your website?

If you want to avoid the common mistakes that are made when building a new website then the only way to do that is to create a plan before you do anything else.

Websites come in many different sizes and have many different roles and the benefits of spending time up front to plan them depend on the size and type of website you are looking to build.

We first start to plan for our website to :

1- Save Time

Every change or mistake in the build of your site costs time. Momentum gets lost; teams get frustrated and lose their enthusiasm for the project.

Like taking a road trip when you know where you are going you are able to take the most efficient route to get there.

2- Solves many design issues

A lot of web projects start with the design before anything else. While the design is very important, the best design is made with knowledge of all parts of the end product.These include content, goals, the intention of the thing being designed and it functions in the greater product.

3-Better Results

When you build up your web and start with GUI , never forgett the back end , your design should be simple and understandable for the programmer.

4- Ensure Your WebSite Do What It Made To Do

To save time and get the right result you should start your project and test it step by step to show the output if it meet the needing.

Testing every step you did it helps you to save more time by avoiding edit on the website and gave the better result to the user.

