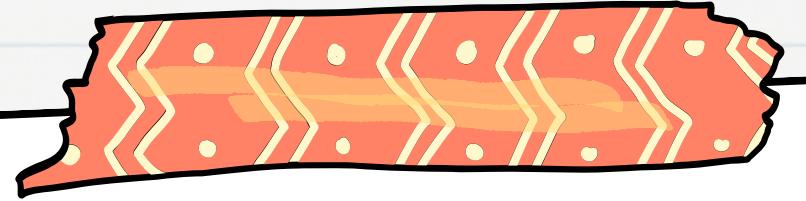


Automated Book Reservation System

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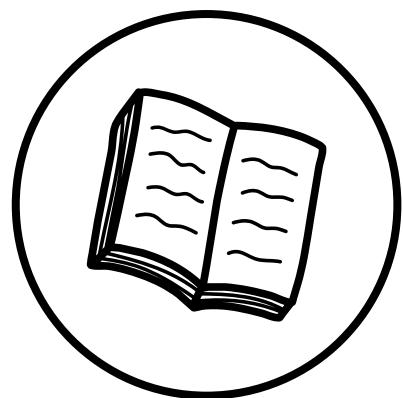


INTRODUCTION

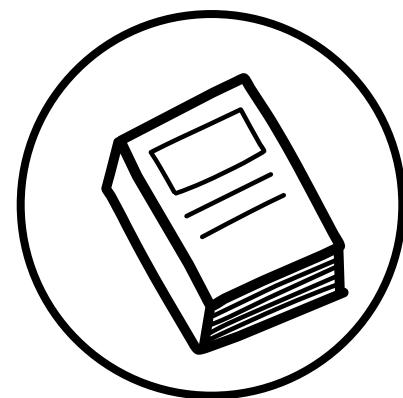
- The automated book reservation system aims to provide an easy to use interface making book reservation and management an easy task.
- The reservation system will allow users to reserve the books they wish to reserve and provide details for that reservation.



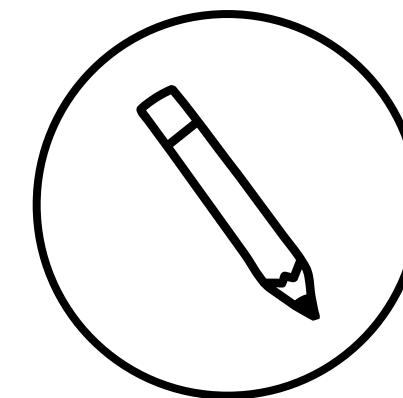
PROJECT OBJECTIVES



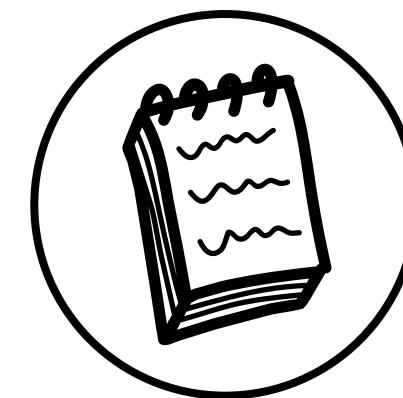
Automation of various library management tasks.



Book management including the likes of book reservation, borrowing, returning etc.

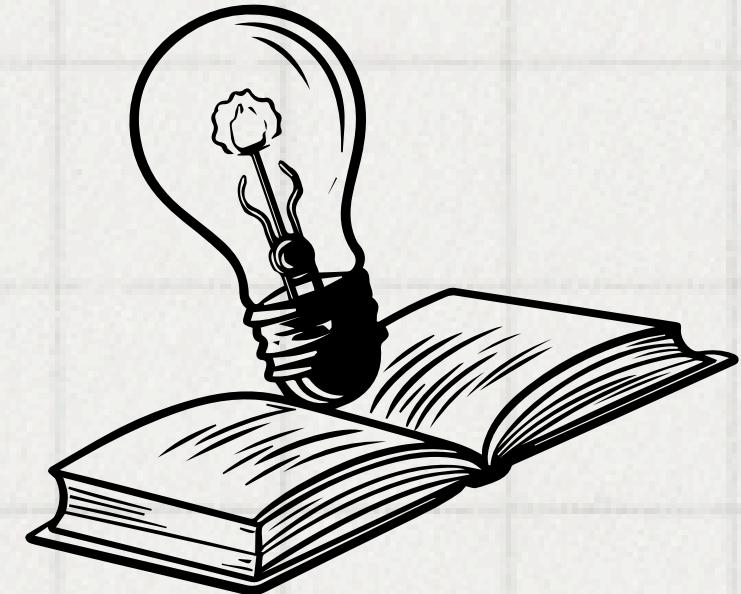


Easy to use admin and user interface.



Improve efficiency and enhance user experience.





PROJECT VISION:

01.

Facilitate growth:

Provide a scalable solution that can accommodate the evolving needs and growth of the library over time.

02.

Encourage learning :

Encourage people to learn by making books more accessible to them using our system

03.

Foster community engagement:

Create a platform that fosters community engagement by facilitating communication between library staff and patrons and promoting library events and activities

IMPLEMENTATION METHODOLOGY:

- Study the internet for existing solutions and view the feedback they have received.
- Use the agile approach for development of the project.
- Creating different classes and creating interactions between them.
- Test out all the changes.

Reviews Of Existing System:



By far the biggest con is simply how difficult Koha is to use. While the initial setup isn't too difficult, anything beyond that can be extremely complicated.

Destiny Library Manager's interface is a little dated. After years and years of use, it just looks old. Functionality is not lost, nor is anything else.

A common complaint among users is that Sierra ILS freezes up occasionally, takes time to produce results for broad search terms, and needs software enhancements to become more reliable.

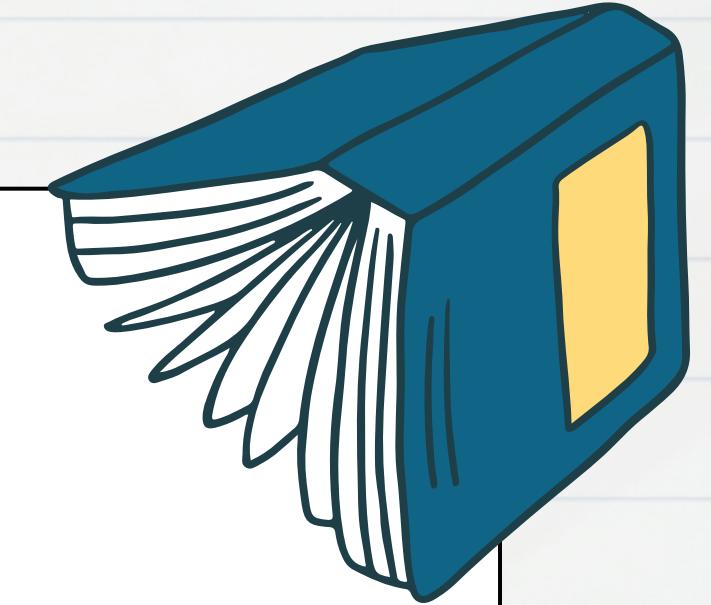
Requirements:

NON FUNCTIONAL

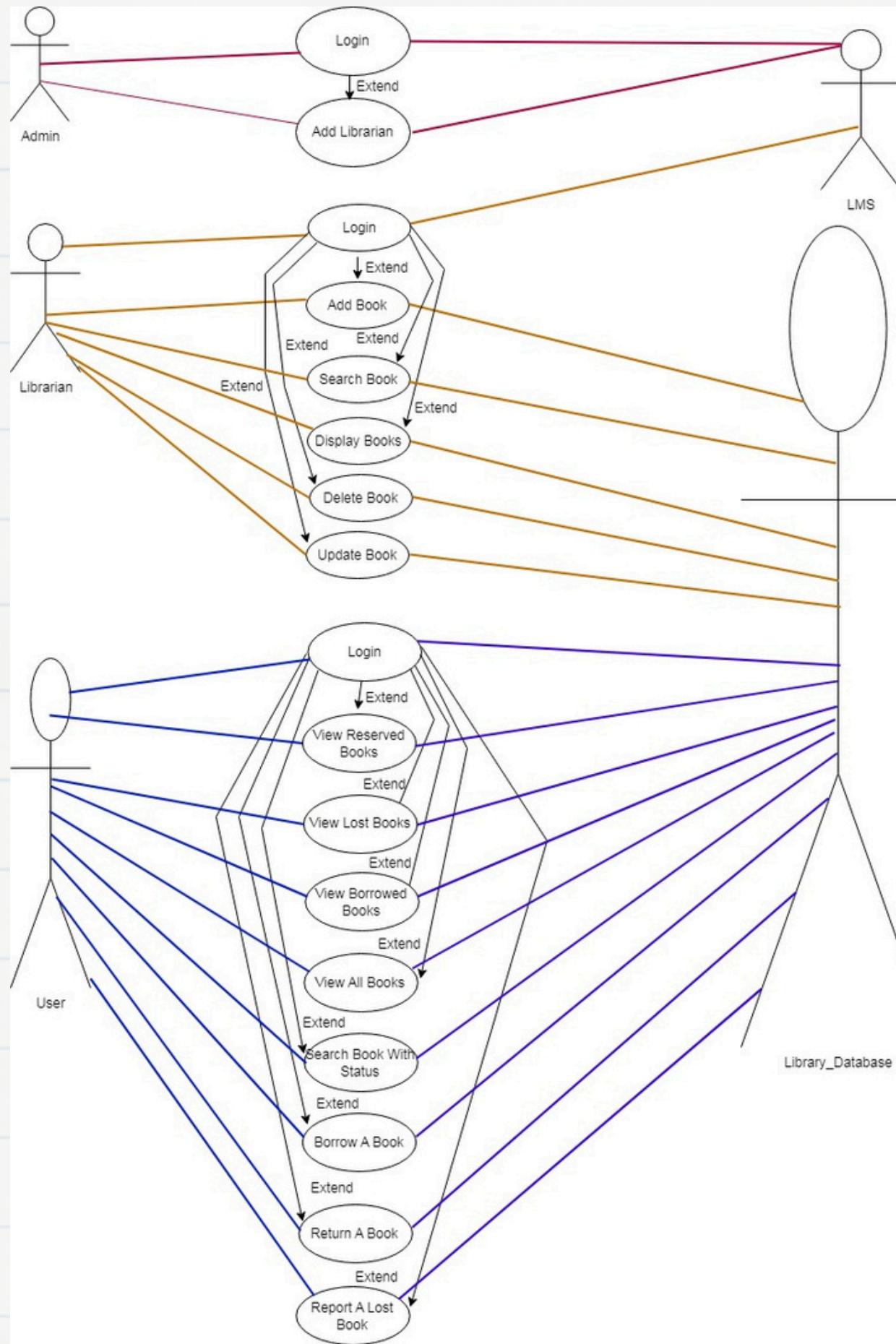
- PERFORMANCE
- SECURITY
- SCALABILITY
- USABILITY

FUNCTIONAL

- USER MANAGEMENT
- BOOK MANAGEMENT
- ADMIN FUNCTIONS
- LIBRARIAN FUNCTIONS



USE CASE DIAGRAM



RESULTS

```
***** WELCOME TO THE AUTOMATED BOOK RESERVATION SYSTEM *****  
  
[NOTE]: TO PROCEED FURTHER, REGISTER AN ADMIN ACCOUNT FOR THIS SYSTEM  
  
DO YOU WISH TO PROCEED? [Y/N]: Y
```

```
***** ADMIN REGISTRATION PORTAL *****  
  
ENTER ADMIN USERNAME [NO SPACES ALLOWED]: shazia  
  
ENTER ADMIN PASSWORD [NO SPACES ALLOWED]: paras  
  
*** CONGRATS! ADMIN CREATED SUCCESSFULLY ***
```

```
***** AUTOMATED BOOK RESERVATION SYSTEM PORTAL *****  
  
ENTER ADMIN USERNAME [NO SPACE ALLOWED]: shazia  
  
ENTER ADMIN PASSWORD [NO SPACE ALLOWED]: paras  
  
***** LOGIN SUCCESSFUL, YOU WILL NOW BE REDIRECTED TO ADMIN PORTAL IN A FEW SECONDS *****
```

RESULTS

```
***** AUTOMATED BOOK RESERVATION SYSTEM PORTAL *****
```

-
- [1] SIGN IN AS AN ADMINISTRATOR
 - [2] SIGN IN AS A LIBRARIAN
 - [3] REGISTER AS A NEW USER
 - [4] SIGN IN AS A USER

ENTER YOUR CHOICE HERE: 1

```
***** LIBRARIAN PORTAL *****
```

-
- [1] ADD A NEW BOOK
 - [2] SEARCH AN EXISTING BOOK
 - [3] DISPLAY ALL BOOKS
 - [4] DELETE AN EXISTING BOOK
 - [5] UPDATE AN EXISTING BOOK
 - [6] LOGOUT AS LIBRARIAN

ENTER YOUR CHOICE HERE:

RESULTS

***** USER PORTAL *****

- [1] CHECK RESERVED BOOKS
- [2] CHECK LOST BOOKS
- [3] CHECK BORROWED BOOKS
- [4] CHECK ALL BOOKS
- [5] SEARCH A BOOK
- [6] BORROW A BOOK
- [7] RETURN A BOOK
- [8] REPORT A LOST BOOK
- [9] LOGOUT AS USER

ENTER YOUR OPTION HERE:

Conclusions

01



Efficiency: The automated book reservation system significantly improves efficiency by reducing manual processes, saving time for both users and librarians.

02



Future Readiness: Embracing automation in library management positions us well for the future, allowing for scalability, adaptability to technological advancements, and continued improvement in service delivery.

03



User Satisfaction: With streamlined reservation processes and timely notifications, users experience enhanced convenience and satisfaction, leading to a better overall library experience.

Thank You

