# LIBRARY MANAGEMENT SYSTEM



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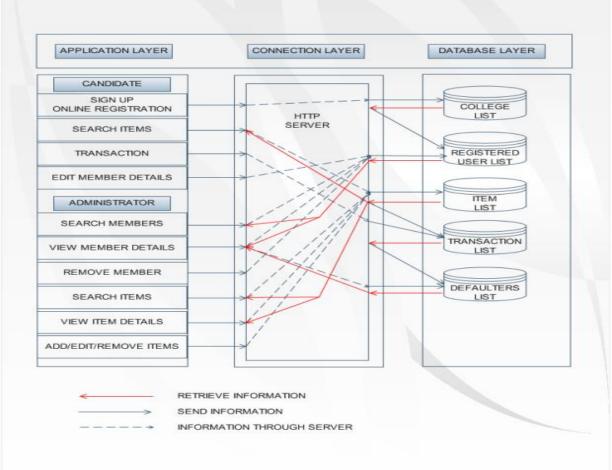


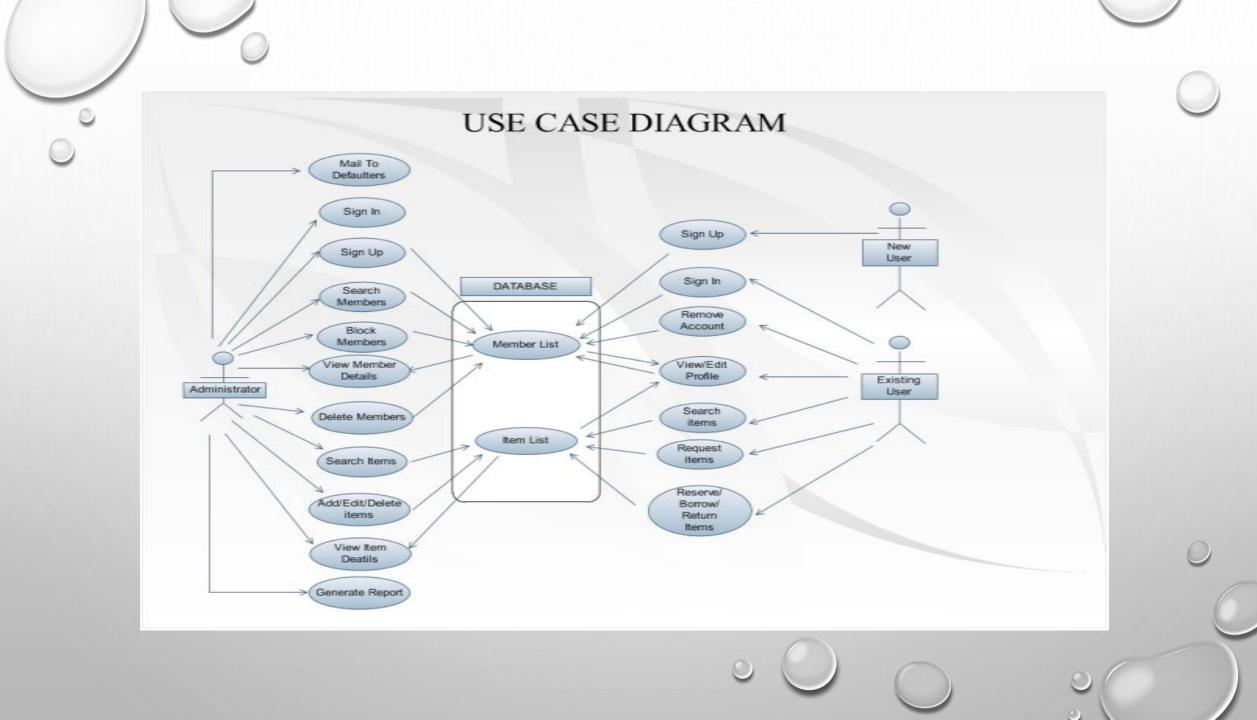
### Introduction

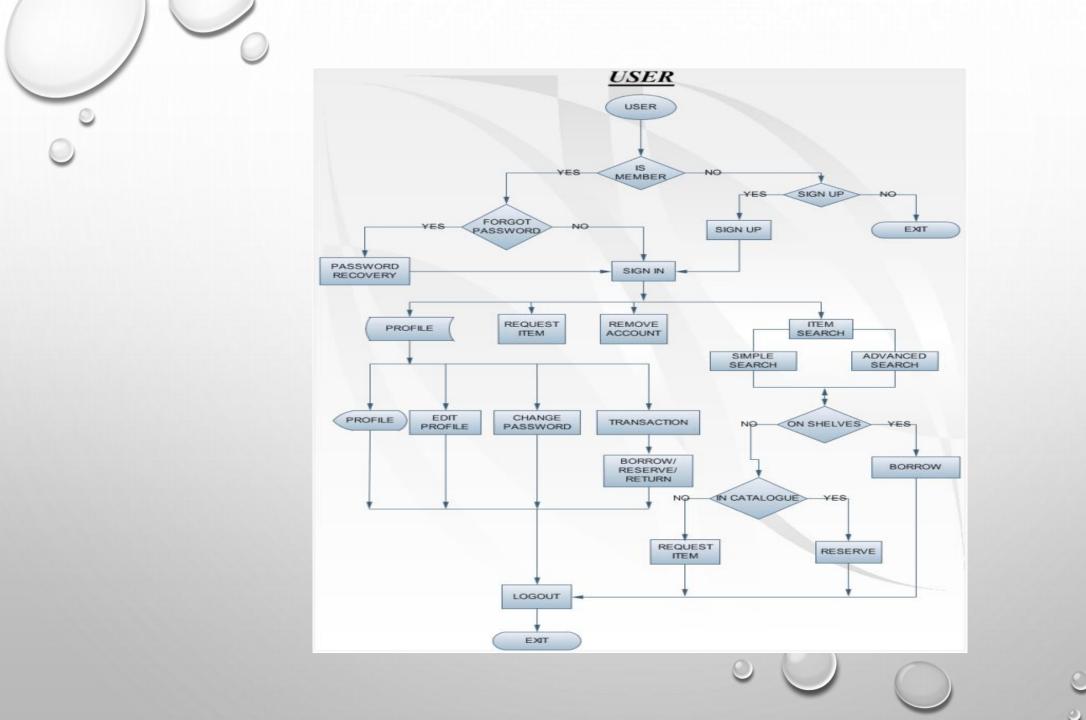
A library management system is a software that is designed to manage all the functions of a library. It helps librarian to maintain the database of new books and the books that are borrowed by members along with their due dates. This system completely automates all your library's activities. The best way to maintain, organize, and handle countless books systematically is to implement a library management system software. A library management system is used to maintain library records.



#### ARCHITECTURE DIAGRAM

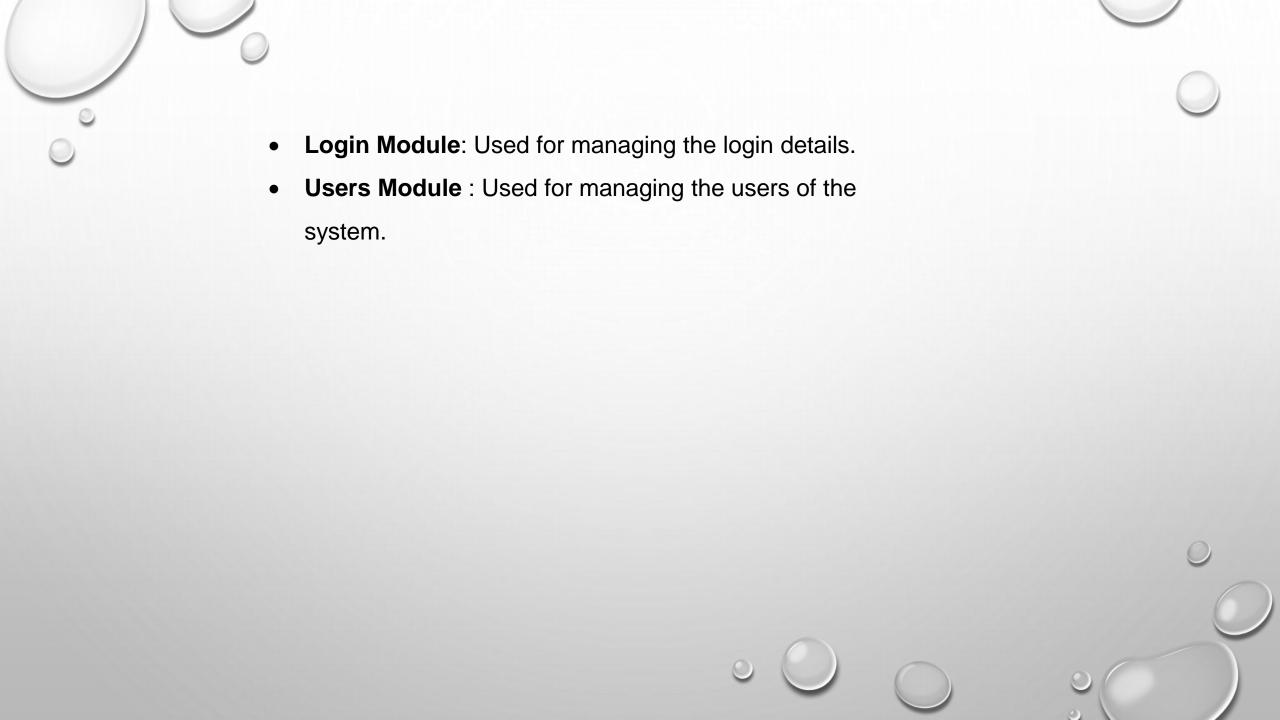




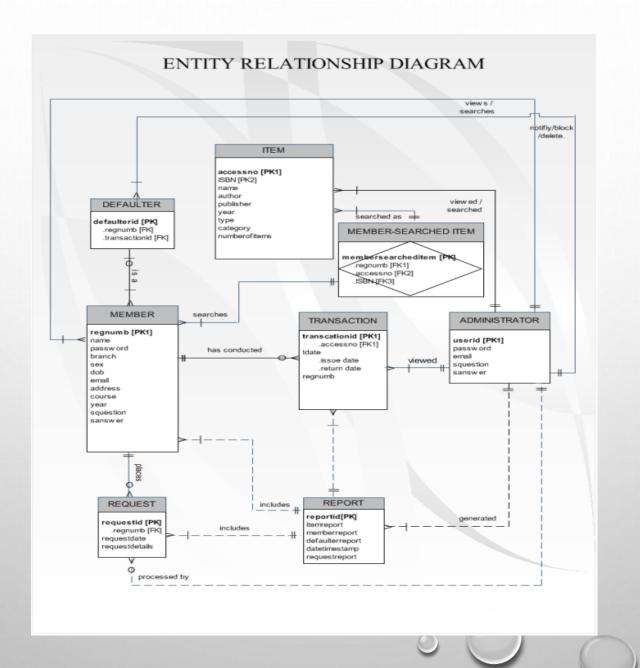


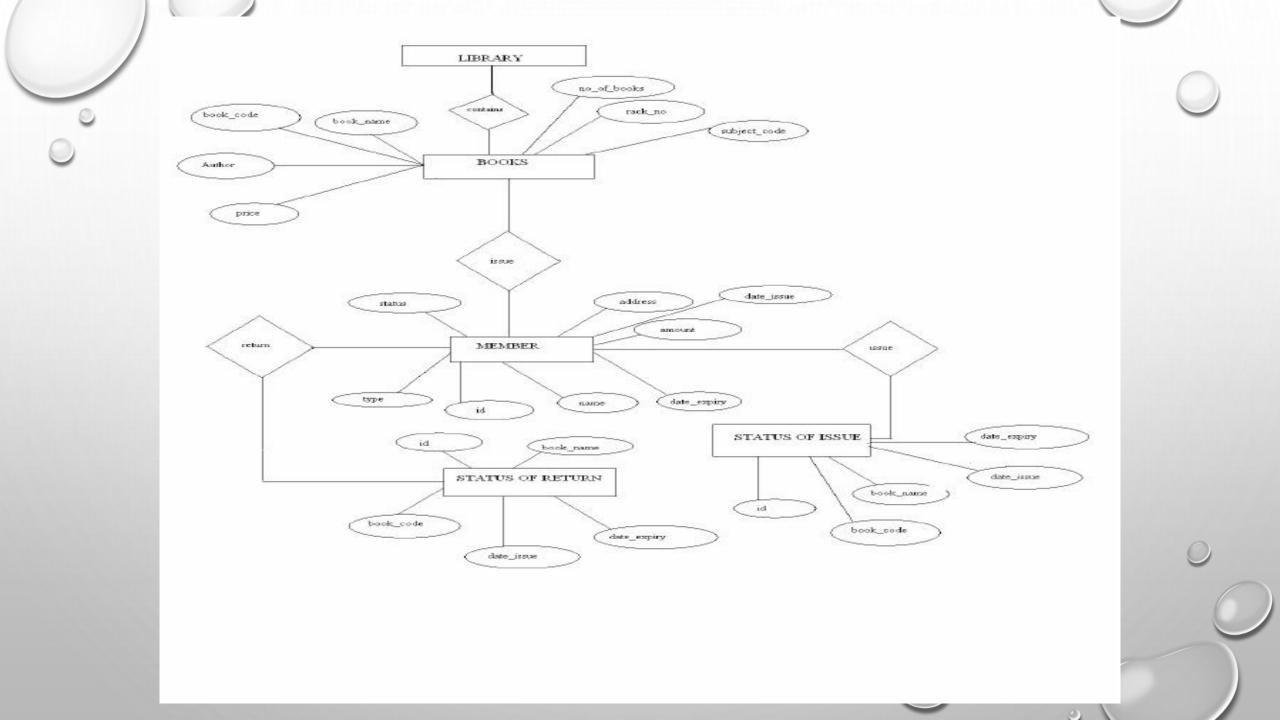
#### **MODULES**

- Student Management Module: Used for managing the Student details.
- Member Module : Used for managing the details of Member
- Address Module: Used for managing the details of Address
- Books Management Module: Used for managing the information and details of the Books.
- Issues Module: Used for managing the Issues details
- Librarian Module : Used for managing the Librarian informations











#### **Conclusion**

This paper mainly focuses on how we can improve the traditional method of working of a library because the traditional method includes doing all the things in manual mode which is slow, less efficient, less secure, and difficult to manage. The solution to this is an online library management system which take care of all the work by automating and digitizing the whole process. Our application is based on Java and is linked to a relational database (sql). The frontend part has been coded using Java and its packages like awt and swing. The backend is supported and connected with database using java, its libraries and APIs. With the increase in the workload of the library, new features can be added to the existing application to make it relevant in the future as well.

#### **References**

- Google for problem solving
- http://www.javaworld.com/javaworld/jw-01-1998/jw-01-Credentialreview.html
- Database Programming with JDBC and Java by O'Reilly
- Head First Java 2nd Edition
- http://www.jdbc-tutorial.com/
- Java and Software Design Concepts by Apress
- https://www.tutorialspoint.com/java/
- http://www.javatpoint.com/java-tutorial
- https://docs.oracle.com/javase/tutorial/
- http://www.wampserver.com/en/
- http://www.JSP.net/



## Thank you!!