A Minor Project Synopsis on

Library Management System

Submitted to Manipal University, Jaipur

Towards the partial fulfillment for the Award of the Degree of

BACHELOR OF TECHNOLOGY

In Computers Science and Engineering

2023-2024

Submitted By -

Krishanu Bujarbaruah (229301409)

Under the guidance of :

Dr. Ankit Shrivastava

Department of Computer Science and Engineering

School of Computer Science and Engineering

Manipal University Jaipur

Jaipur -Ajmer Express Highway , Dehmi Kalan

Jaipur , Rajasthan

Introduction:

In the realm of information management, libraries play a pivotal role in disseminating knowledge and fostering intellectual growth. To effectively manage their vast collections and cater to the diverse needs of patrons, libraries require robust and efficient systems. The Library Management System (LMS) stands as a cornerstone of modern library operations, providing a centralized platform for managing books, periodicals, and other library materials. This project delves into the development of a comprehensive LMS using Java, a widely adopted programming language renowned for its versatility and object-oriented approach.

Aim:

The primary objective of this project is to conceptualize, design, and develop a comprehensive Library Management System (LMS) in Java. The LMS aims to revolutionize the operational dynamics of library services, effectively automating and streamlining daily tasks. The key aspiration is to craft an efficient and user-centric system, ultimately elevating the overall library experience for both librarians and patrons.

The proposed LMS will play a pivotal role in simplifying the intricate processes of cataloging, tracking, and managing library resources, encompassing an extensive range of materials such as books, journals, and multimedia items. It will introduce user-friendly features, allowing patrons to effortlessly search for, borrow, and return library items. Meanwhile, librarians will be empowered to oversee the library's extensive collection, administer memberships, and generate data-driven reports for in-depth analysis.

This endeavor is driven by the noble purpose of augmenting accessibility, minimizing the reliance on cumbersome manual documentation, and ensuring the seamless operation of the library. The ultimate goal is to cultivate a more structured and efficient environment within the library, thus optimizing the provision of its invaluable services to the community it serves.