# CERTIFICATE

# This is to certify that BIBHASINDHU PRADHAN of class: XII - A of KENDRIYA VIDYALAYA BERHAMPUR has done his project on LIBRARY MANAGEMENT SYSTEM (DIGITAL LIBRARY) under my supervision. He has taken interest and has shown at most sincerity in completion of this project.

# I certify this project up to my expectation & as per guidelines issued by CBSE, NEW DELHI.

# Internal Examiner External Examiner

# Principal

# ACKNOWLEDGMENT

# It is with pleasure that I acknowledge my sincere gratitude to our teacher, MR. SAROJ KANTA MISRA, PGT (CS) who taught and undertook the responsibility of teaching the subject computer science. I have been greatly benefited from his classes.

# I am especially indebted to our Principal MR. SHIVAPRIYA DASH who has always been a source of encouragement and support and without whose inspiration this project would not have been a successful I would like to place on record heartfelt thanks to him.

# Finally, I would like to express my sincere appreciation for all the other students for my batch their friendship & the fine time that we all shared together.

# HARDWARES AND SOFTWARES REQUIRED

**HARDWARES**

# Desktop Computer / Laptop

# Mobile Phone

**SOFTWARES**

# Python (Latest Version)

# MySQL

# MySQL-Connector-Python,Requests,Wikipedia-API, Datetime, Pyfiglet Modules

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# INTRODUCTION

# The project LIBRARY MANAGEMENT SYSTEM (DIGITAL LIBRARY) includes enrolment of users, adding of books into the library system. The software has the facility to search for news, Wikipedia articles. It includes an authentication facility for admin and user to login into the admin panel and user panel resp. of the system. User can see the books available, details of books issued by the user in the digital library. The Library Management System can be login using a user ID and password. It is accessible either by an admin or user. Only the admin can add, delete and update the data of users and books into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast.

# The purpose of the project entitled as “DIGITAL LIBRARY” is to computerize the Front Library Management to develop software which is user friendly, simple, fast, and cost-effective. It also has a notes facility where the user can add notes at any point of the program into the database.

# LIBRARY

# A library is a collection of books, and possibly other materials and media, that is accessible for use by its members and members of allied institutions. Libraries provide physical or digital materials, and may be a physical location, a virtual space, or both. A library's collection normally includes printed materials which may be borrowed, and usually also includes a reference section of publications which may only be utilized inside the premises.

# Libraries can vary widely in size and may be organised and maintained by a public body such as a government, an institution (such as a school or museum), a corporation, or a private individual. In addition to providing materials, libraries also provide the services of librarians who are trained experts in finding, selecting, circulating and organising information while interpreting information needs and navigating and analysing large amounts of information with a variety of resources.

# LIBRARY MANAGEMENT SYSTEM (DIGITAL LIBRARY)

# Library management system (LMS), is an enterprise resource planning system for a library, used to track enrolled users, available books, books issued and to whom, books returned and it’s fines, etc.

# The purpose of a library management system is to operate a library with efficiency and at reduced costs. The system being entirely automated streamlines all the tasks involved in operations of the library.

# The library management system software helps in reducing operational costs. Managing a library manually is labour intensive and an immense amount of paperwork is involved.

# The system saves time for both the user and the librarian. With just a click the user can search for the books available in the library. The librarian can answer queries with ease regarding the availability of books. Adding, removing or editing the database is a simple process. Adding new users or cancelling existing userships can be done with ease.

# The automated system saves a considerable amount of time as opposed to the manual system.

# FUNCTIONS LIST

# Admin

# Login into User Panel

# Modify User

# Add User

# Delete User

# Update User

# Display Users

# Search Users

# Modify Book

# Add Book

# Delete Book

# Update Book

# Issue Book

# Return Book

# Change Admin

# Home

# Back

# Exit

# User

# About Library

# News

# Wikipedia Articles

# Display Books

# Search Books

# Issued Books Details

# Notes

# Modify Notes

# Add Notes

# Delete Notes

# Update Notes

# Display Notes

# Search Notes

# Home

# Back

# Exit

***Python Source Code***