

PROJECT PERPOSAL

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Library Management System

About

Our project is a library management system developed in C++ using data structures.

Data Structures Used

• Queues • BST • Linked List • Hashing

Description

1. As we have to know some type of ID (numbers) to store data in BST. So we generated book IDs using book names. In that algorithm we used queues.
2. We have used hashing using a 2D array of 10 x 5 (10 rows and 5 columns) of BST. The 5 columns are the racks. The columns are Mathematics, Computer Science, Islamiat and others at indexes 0,1,2,3 and 4 respectively.
3. So basically our every node in BST contains a linked list.

Idea	Idea of this project is to facilitate LIBRARY MANAGEMENT SYSTEM. This project will contain the following main features. <ol style="list-style-type: none">1. Exit2. Display All Books3. Insert a Book4. Delete a Book5. Search Book By Name6. Issue Book to a person7. Return Book8. Display Issued books
Details	<ul style="list-style-type: none">• Insert books User can input All data of books such as Name of the book, author name.• You can search the search a particular book by its name.• You can see all books present in your library.• It can also have the record of issued books to persons.• Delete's a particular book.• If a book return then it will be restore in its place.