

BUSINESS COMMUNICATION TASK

A Library Management System (Online Library Project) in C++

ANALYTICAL REPORT

- **Analysis the creation of Library
management system in C++ for helping
the people to buy books Online**

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Abstract:

The Library Management system is created with user friendly interface which helps user to buy book, return book and many other options to interact.

The system has developed in such a way that it prevents the chances of error cause less as much as possible. A lot of methods, classes of C++ are included in the system in order to make the program functionable for the user in an interactive way.

In order to make the program more user interactive and user friendly, the GUI feature (Graphical User Interface) has been introduced in the system in such a way that the user can easily complete the proves of buying and returning and searching the book easily by clicking the buttons and enjoying the beautiful interface of images and background and animation.

Introduction:

The library management system is based on high computing programming by our engineers. The books at our online store are a high-quality printed books at a very cheap.

User will not be disappointed about our book's quality. They will be given a period of 1 month if you are issuing the book. After then, the **SMS** and **Email** notification of "**Returning the Book**" will be proceeded towards the user in order to remind them.

The user can ask the query about any issue regarding the proceeding and the other technical difficulties. Then, our

experts will guide them and answer them in a timeline of 24 hours and will completely resolve the user's issue.

In our Library Management System, we have all types of books such as Sports related, Science Fiction related, Academic purpose related and many other types.

User can reserve the book for future, if the book will be available at our store, then the user will be notified.

➤ **Purpose of creating the Online Library System:**

There are many students who want to read the academic books but they are at high prices on book shops. Many are fond of reading the novels and other stuffs but could not get it due to high prices in markets.

So, the purpose of creating is the only to provide the students and readers accessibility to the books that they can buy them at a cheap price, they can issue it if they want to and they can get any subject of book.

They need to only order it online and the product will be at their doorstep in 2 to 3 days and they can easily pay the books through cash, online banking and credit card too.

➤ **Scope:**

The scope of this online Library management system is very vast. As the technology is growing rapidly, the users also preferred to do online shopping instead of any going physically and buying.

Our library is also placed physically that if person wants to visit, he/she can. We are main focused on our virtual system of library in order to make more attractive and highly interactive and responsive for the users.

Basic Features of the Program:

The Library Management System is based on following basic features:

- ❖ User can Register and Login with his/her Email ID.
- ❖ User can Add book to cart, can remove book from cart.
- ❖ User can search through the system about their books and also even based on subject and theme.
- ❖ User can add one or more books to the cart at a time.
- ❖ User can reserve the book for **Future**.

How the Program Works?

There are lot of classes, methods and built-in libraries of GUI and animations are imported in C++ in our program.

Firstly, the user will be displayed an interface with background and images of several books and a sponsored ad will be displayed to user. On the main menu, there are several options of proceeding for the user.

User can see the list of books with images and can search in the list through entering the name of book in the search bar or by the selecting the specific type of book through the drop-down menu which is placed in the left of search bar.

Then, user can add books, can view the cart if user wants to see till this time how many books are added by him/her and can also remove the book then the book will be deleted from user's cart and the cart will be updated.

The system also works in such a way that the user cannot order the books without **registering** and **logging in**. So, in the end if user wants to order or issue the book, he/she has to do this essential step.

Conclusion:

According to my research on this project, there are 1 million users of this Library Management System across the Pakistan and the reviews about this system are very good and satisfied which results that the people are liking the project and enjoying using it.

➤ Future Modifications:

The users are entitled to create website version of this project and with future enhancing the projects according to modern requirements. Up till now, the project is only available as a Mobile App.