

**Object-Oriented Programming**

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**NRC:4680**

**BOOKIFY**

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**TOPIC: Bookify**

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**PROBLEM**

We need a system to facilitate the life of the customers who attend the community library, and the workers in the same, in this case the librarian, fulfills the primary function of managing the products of the library and the content available in the same, and readers or users take advantage of the services provided by the library, however the current systems are somewhat old or difficult to handle for all users of the library, and even too slow to perform very basic operations.

**OVERVIEW**

When a person or user enters a library, they are faced with a general problem that is locating the reference books to the subject of their interest, since the book shelves change their type of organization, that is, they can be organized alphabetically, by subject, by year , author, among others, which makes the search for information tedious, what is sought with the following project is to speed up this search for the user by making use of object-oriented programming for the design of an application improves the experience of usuarios of the Chicago Public Library.

**BACKGROUND**

Usually when we talk about libraries only books come to our mind, but is not really the only thing they have, in fact their main function is to provide books to the community, but they also have movie rentals and music cd's service.

What we need to know about this service is the way in which the book, movie and CD lending service works. In general, the customer who requires one of these services is recommended to request a regular customer card which is provided by the library, but if it is not a regular customer or it is his first time, he is asked to leave his identification card or if he is a student, his student card.

The information requested to the customer who requests a card is their personal data and the benefits they get is to withdraw books without the need to leave your ID as it now appears in the library database, discounts on the purchase of books and courses available, extended time to return the book, etc..

The library has a librarian whose function is to guide customers and inform them of the services available, the librarian has a computer which has a database of all books, movies, and cds, which currently have a record of inputs and outputs of products, and the names of the people who withdrew them, also has a blacklist of customers who do not return the products in e;l time provided.

All the products of the library have an ISBN code which is registered in the database, in this way the client only gets the product he wants, he approaches the librarian and she reads the code with a bar reader which is registered in the computer, the client gives his ID card or his ID, the system marks whether he is eligible to withdraw the product or not, and can withdraw his book, and must deliver it on the date set by the library.