ONLINE BOOK CLUB APPLICATION

INTRODUCTION

People who read at least seven books a year are reported to be two to three times more intelligent than people who read only one. This project is concerned with developing an online book club in order to make reading more efficient and fun but also enhance reading culture among students. The book club is a fully automated service. It has the ability to display the details of the books available in various departments and having different genres.

The goals of this project are to increase the reading culture among the students, to enhance the sharing of books, proper reading, review books, rate books and connect with other readers.

STATEMENT OF THE PROBLEM

The school library community has fully engaged in management uses of technologies: automating library collections; providing reference online; providing access to databases and electronic materials; as well as building a significant virtual presence through school library websites. However, the traditional areas of promoting reading and providing readers advisory have often remained static and bound by face-to-face methods such as conducting book talks; building in-library displays; and bulletin board displays, as well as evidence that by improving students' access to reading materials and opportunities to interact with their peers about their reading, teachers can do a better job of helping all readers become skillful, motivated readers. Since technology is seen as occupying more and more of students' time out of school, it would seem important to explore how these two areas might unite. Thus, developing an online book club application as a factor in motivating young readers to read more.

LITERATURE REVIEW

A review of literature reveals that an online book club application will:

- Help to increase the reading culture among students and members using the system
- Help reduce the time spent looking for the right books
- To increase academy performance of students
- Eliminate borrowing of books from the library, most of these informative books will be readily available for reading.

Tools and Resources

- HTML / CSS
- Javascript
- Python
- Django
- Bootstrap

SOLUTION TO THE PROBLEM

The solution to the problem of the library management system and a physical book club is to develop a computerized online book club management system. Before developing the proposed system, there is need to identify;

a) The design of the proposed system
b) The main users of the library management system
c) The activities of the main users

a) **The Design** - The proposed system will be designed using Visual Studio Code IDE in HTLML, CSS, Bootstrap as the front end and MySQL, Django and Python as the back end. The size (in terms of memory) of the proposed system will be small. This web application will be built using Django which is a python based framework. Django will basically handle the backend. The database to be used is SQLite3. Django is a Model View Template framework used for developing web applications. The Model represents an object with attributes that are persisted to the database using migrations. The View is where the logic lies. It can be used to render templates, retrieve model instances from the database and many others. The Template has the static parts of the HTML and CSS. The application will be built using Visual Studio Code which is an IDE.

b) **The main users** – The main users of the proposed system are the students/users and the administrator.

c) **Their activities** – The activities of the main users of the proposed system are listed below.

Administrator will be able to:

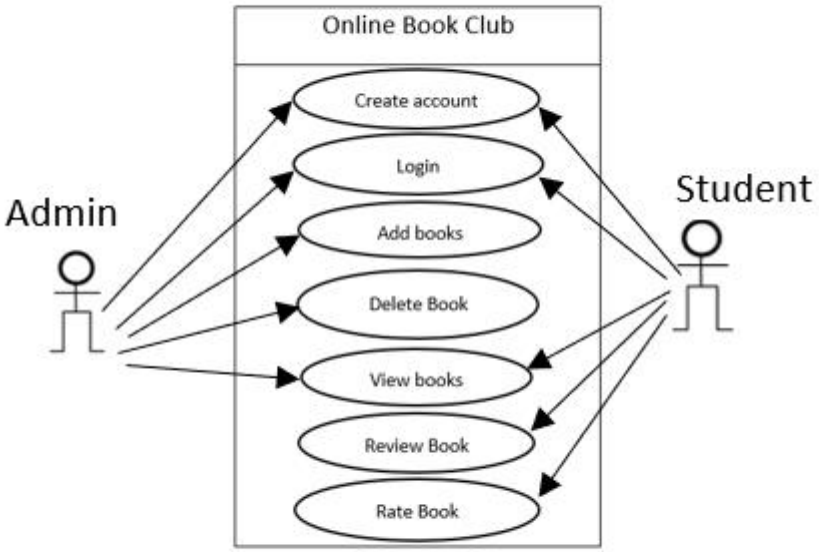
- Login into his account using username and password
- Register himself/herself if admin is using the system for the first time
- Add books and categorize them for the users to view and interact with
- Delete books that maybe the least used or are now obsolete
- Update books in case there are newer editions published
- View books
- View the users using the system

Student/User will be able to:

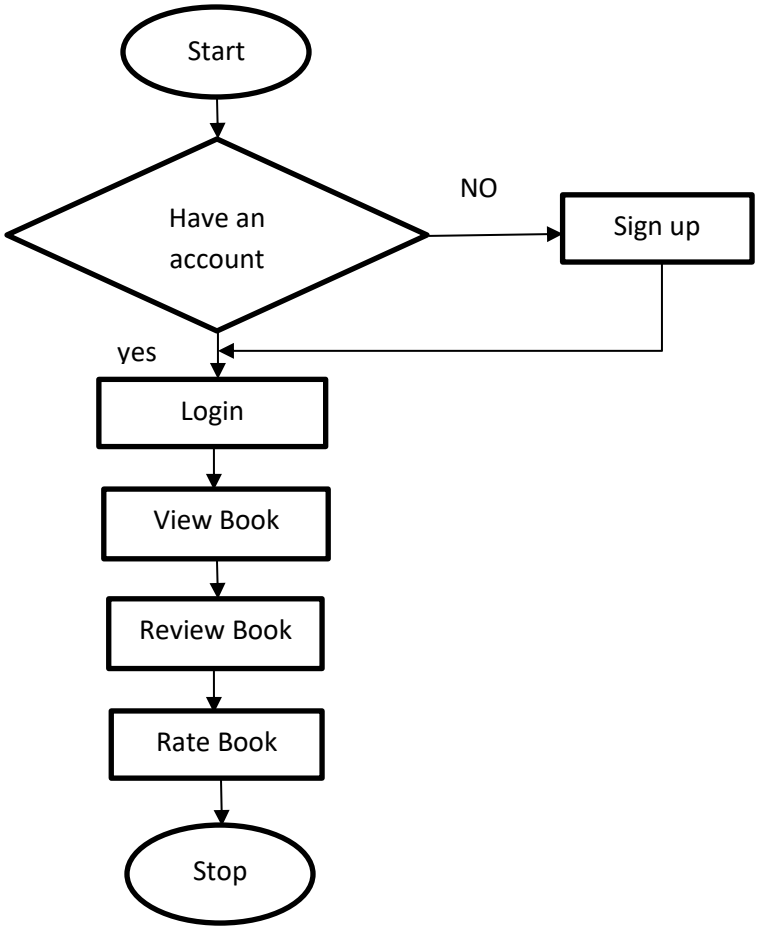
- Register himself/herself if they are new to the system
- Login into the system with their credentials
- View books available
- Review the books available
- Rate the books read on a scale of 1 to 5

The proposed system will be able to perform all these activities.

Use Case Diagram



Activity Diagram



SUMMARY

This system needs to be computerized to reduce human errors and to increase the efficiency. The proposed Book Club management system in this proposal will be designed to store all the information about books and members.

The main focus of this project is to lessen human effort and encourage efficient reading.

RECOMMENDATION

Based on the results of the findings gathered, I would like to recommend the following:

- The university consider the proposed application for them to improve the reading culture of their students or users.
- Future researchers should continue to improve the proposed system
- Training must be conducted before the actual operation of the developed system