GROUP-13

PROJECT DESCRIPTION

PROJECT NAME:

DIGITAL ASSISTANT FOR
STUDENTS REGARDING LIBRARY

1. Group Members:

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2.Problem Statement in Brief:

Now a days, we know how hard it is to keep track of our daily routine. Especially students with lots of deadlines and work pressure. If a student had borrowed a bunch of books from a library it is hard to monitor deadline or due of every book and if wants to extend the deadline, he/she has to go to library and take permission of librarian. This consumes a decent amount time of every student and is a stressful process to do. By this project we want to help out students and librarians step by step to solve most of the problems regarding this.

3. Aims:

The main aspect of this project is to maintain the data of library books, also to keep track of all the books that a student takes from college library and their due dates.

Our project aims to help out students regarding

- The maintenance of library books by reminding them of returning the books
- Providing them with the information of available books along with advance booking system.

- It also reduces the paperwork by storing all the information in a digital format.

4.Applications:

Our Digital Assistant regarding library is a web-based applications that allows students of higher education institutions to manage their library books in a better way by providing them with bunch of handy features. This online cloud-based management system also provides easy ways for librarians to create and store their library collections which can be viewed by students with limited access.

- Similar management procedure can also be applied in the public libraries also with some minor modifications.
- It can also be used in rental service with slight modification in the flow of data.

5.Innovations:

The current status of the domain of our Project work:

- Staff members of the library will be having the information of the books which a student had taken from the college library.

- Students might also be having the same information in form of paper work but not in digital format.
- Addition to this, when the student wants to extend the due date for any book that he had taken, then he has to go to staff members of library and request to extend the due date of a book.
- No automated software is available for students to remind them of submitting the book when the due date of book is approaching.
- There is no information available to the students when the new books or latest versions of the books will be available in library.
- Suppose if a student has a need to update his/her personal information then he/she has to go to staff members of library then only the student can update his personal information but he can't update his personal information by himself through online.
- There is no Online pre-booking system for the books which are available in library or upcoming books.
- The students have to visit the library for finding the fine, pay for due/losing the book.

These are some features we expected to include in our project:

1. Here, we are planning to build a web application which can keep track of all the books that a

student takes from the college library and their due dates.

2. Providing the option to extend the due dates of books through online if the student wants to.

3. The student can pre-book the books which are available in library and the one's which may become available in upcoming days through online.

4. Reminding the students to return the book by sending an email/message a day before the due date.

5. Through online, the student can find his total library fine and has an option to pay

6. If a student fails to pay his library fine within a certain period of time, then library fine will be added to his fee structure of next semester.

7. Our web application also comes with a feedback portal and request portal where students can provide their feedback and report bugs for further enhancement and future maintenance.

6.Project Details:

Project objective

Our project aims to build a Digital assistant for student and as well as the staff members of library.

It helps us to make library management in a more efficient way through digitalization.

This will also help us to reduce the paper work and also maintains the proper record of the books issued and their fine.

Our project includes mainly two perspectives:

1. Student perspective
2. Staff perspective

Student Perspective

Students are the most important aspect of our library management System. The system is designed to improve the student's library facilities.

The students can login to the library portal by entering username and password which will be given to them at the time of registration by employees.

In the library Portal, Students can search for different books that are available in library.

In the portal, Students can have an option to view the books that they had taken from the library and their respective due dates and fines.

Students can also update their personal information.

Students can request to extend the due date of any book.

Students can do Online pre-booking for the books which are available and the one's which will be available in coming days.

Staff Perspective

The Staff acts as the Key channel for the interaction between the student and the library.

Staff can register Students, manage books in the library, issue books to Students, also manage returns and fines.

7.Bibliography:

Here are some of the resources

https://nevonprojects.com/e-library-project/

https://youtu.be/8f-1TphcQ_Q

https://www.udemy.com/course/the-complete-web-development-bootcamp/