Project Title

Book Trader's Library

Project Category: Software

Introduction :

The Book Trader Website deals with the fact that many of the students are not able to purchase a full edition of books that are either :
- Costlier than regular books,
- Not available to the students due to shortage in the region by the publications.

They can use our webpage to **get access to the books** for some time without any need for payment, Instead they have to **upload other books** which will be in the form of a scanned pdf.

The brief introduction of the project is provided in the following lines:

Features:

1. OCR:

The uploaded pdf shall be **scanned for continuation of pages and authenticity** by OCR technique. In the case of uploaded pdfs there is possibility of improper scanning, incomplete pages, improper edges, no front (an indicator of book's authenticity). So a proper rating of books shall be done on this basis.

2. Page contribution :

Users can **contribute a page or group of pages** which might not be present or is not in good quality in a particular book. Those pages will replace the improper pages in desired book once verification of the page quality is done.

3. Token :

Contributor will get tokens which will depend on the rating of uploaded book, it's demand, frequency of uploading by the contributor etc. These **Tokens will be used on the website to get access to other books**. This system will encourage users to contribute and thus growth of database, leading to greater user satisfaction.

4. Wishlist:

We will assign a wish list feature which will define **the book's demand level**. Every user can add to their wish list what book they want in the website library which will have all tags, name and author, etc to define it. The contributor can also see books which are in demand in the website library if a person who contributes to a book which has demand higher than usual will get more tokens than usual.

5. <u>Search:</u>

There will be **category division** of books based on its type like Engineering , Arts etc. Subcategories will also be provided so as to make searching easier and effective.

6. <u>Website Display Optimization:</u>

Optimize of the uploading process will be done that every device like Windows OS, Linux, Android, IOS, etc. is compatible with the webpages. Sometimes webpages are not displayed properly in other devices as it is only made for window browser but not android or mobile screen.

7. <u>Buy feature:</u>

If a person wants to **buy a PDF that is not available in our database,** we will redirect the user to the website where he/she can purchase it. This may also be seen as a feature that will help a user to find the book to buy if he/she wants to buy the it. This will make our webpage a desired location for searching scanned pdf, genuine pdf, purchasing books and pdfs and hence maximizing user satisfaction.

8. <u>Contact:</u>

Facility for contacting us for any technical problem will also be provided. User can contact through Email, WhatsApp, Facebook, Instagram, etc. to inform us about a bug or book which may not be in good condition or similar communications.

Expected outcome:

A **fully functional website** to **freely access costly books using token system**. The book to be contributed by the user will be evaluated on the basis of its **quality and demand** and the tokens will be awarded accordingly. If the book to be uploaded is already there in the database, then the contributor can either contribute some higher quality pages or try for another book. The tokens may be used by the user to **unlock the full book** or a part of the book that can be accessed by the user any time on the website. A reader can **search for a book with the help of categories and tags**. Thus making searching of a book as easy and efficient as possible. The person can even **Wishlist** a book to make it available in its personal library or to request the book from the public contributors allowing them to contribute what is required thus getting more tokens in return. The search feature on the web site will be optimized to get the exact book a person wants. If a person wants to **purchase a book online** he could do this by searching the book on the website and following the link to the book at any official buying location.

Project Time Schedule:

Part	UI Creation	Backend Integration	OCR and Authentication Addition	Testing	Additional Features Completion	Testing
Estimated Time of Completion	31/8/2022	17/9/2022	20/9/2022	22/9/2022	15/10/2022	17/10/2022

Final deadline: 20/10/2022

Individual Student Responsibility in project work:

181114081-	*Rushil Verma -*	Database Management and authentication of books and OCR
181114026-	*Aryan Gurjar Banke -*	Backend integration and processing with database
181114008-	*Sourabh Singh -*	Frontend UI and UX designing
181114045-	*Niket Kumar Saraf -*	Data Creation - Accumulation and Testing
181114092-	*Dayasagar Sahu -*	Data Creation - Accumulation and Testing

Proposed Supervisor :

Dr. Manish Kashyap