A logo with a flower and leaves

Description automatically generated

**T. C.**

**RECEP TAYYIP ERDOGAN UNIVERSITY**

**FACULTY OF ENGINEERING AND ARCHITECTURE**

**COMPUTER ENGINEERING DEPARTMENT**

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**ETHICAL STATEMENT**

I hereby declare that all information in this document has been obtained and presented in accordance with academic rules and ethical conduct. I also declare that, as required by these rules and conduct, I have fully cited and referenced all material and results that are not original to this work.

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Personal Library System

Written in c++

This project, known as the Personal Library System, is designed to empower users in effectively managing their personal book collections. The system encompasses a range of features, providing a comprehensive and user-friendly interface for book enthusiasts. Key functionalities include:

Add Book:

Users have the ability to seamlessly add new books to their library, capturing essential details such as title, author, genre, publication date, and a brief description. This feature contributes to the systematic organization of a diverse book collection.

Delete Book:

The system allows users to declutter their library by removing books they no longer wish to keep. This feature enhances user control over their collection, ensuring it remains relevant and curated.

Update Book:

Users can effortlessly update information about a book in their library, facilitating the maintenance of accurate and current details. This ensures that the library reflects the most recent information about each book.

Add to Wishlist:

The wishlist feature enables users to curate a list of desired books for future acquisition. This not only serves as a personal reading wishlist but also facilitates easy tracking of books to consider for future library expansions.

Remove from Wishlist:

Users can manage their wishlist dynamically, removing books that are no longer of interest or have been acquired. This contributes to an organized and purposeful wishlist, streamlining the process of selecting new books.

View History:

The system maintains a detailed history log, allowing users to revisit their activity within the platform. This feature provides insights into past additions and removals from the library and wishlist, enhancing user awareness and engagement.

Add to History:

Each user's actions within the system are meticulously recorded, contributing to a comprehensive user history. This feature not only provides accountability but also offers a valuable reflection on the evolution of one's reading interests.

User Authentication:

Implementing robust user authentication ensures secure access to the Personal Library System. This feature protects user data and privacy, fostering a trustworthy environment for managing personal book collections.

Contributions and Impact:

Efficient Organization:

The system streamlines the organization of personal libraries, saving users time and effort in managing their book collections.

Enhanced User Experience:

By providing a user-friendly interface and intuitive features, the project aims to enhance the overall experience of interacting with and managing a personal library.

Data Security:

User authentication and data protection measures contribute to a secure environment, instilling confidence in users to entrust their personal reading preferences to the system

Also we use binary system to secure tour data.

Personal Growth and Reflection:

The history features enable users to reflect on their reading habits, fostering personal growth and a deeper connection with their literary interests.

Inspiration for Reading:

The wishlist functionality serves as a source of inspiration for users, encouraging them to explore new titles and authors, ultimately promoting continuous reading engagement.

In summary, the Personal Library System not only simplifies the process of managing a personal book collection but also contributes to an enriched reading experience, promoting organization, security, and personal growth.