SIMATS ENGINEERING

Saveetha Institute of Medical and Technical Sciences Chennai- 602105

Student Name: SHRUTHI SREE R Reg. No.:192421129

Course Code : ITA0203 Slot: D

Course Name: Course Faculty:

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| **Project Title: Local Library System** | |
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| **Module Photographs**: (3 photographs –Module Photo, Individual student contribution module work in the project and presentation image) | |
| **Review 1 Presentation (Individual Student Photo)** | **Review 2 Presentation (Individual student Photo)** |
| **PPT Photo with Final Presentation ( Both Presenters)** | **Demo Photo** |

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| **Project Description**: (here you write what you did in this project (contribution) including Model Description | |
| The project titled “Local Library Website” was developed to make library operations easier, faster, and more organized for both users and administrators. The main goal of this project was to create a simple, user-friendly, and efficient website that helps people search for books, borrow and return them, and manage all related activities online. In many traditional libraries, maintaining records manually takes a lot of time and can lead to errors. This project aims to solve that problem by digitizing the process through a web-based platform. The website provides an easy way for users to browse the book catalog, check availability, and manage their borrowing history, while the admin can handle all book-related information and track every transaction in real time.  The website was created using HTML, CSS, and JavaScript for the front-end design and layout, giving it a clean and interactive appearance. For the back end, PHP was used to handle the logic and communication with the database, while MySQL was used to store and manage data. The system includes three major parts — the User Module, Admin Module, and Database System. The User Module allows people to sign up, log in, view book details, borrow and return books, and see their borrowing history. It also automatically calculates fines if books are returned late, which reduces manual work. The Admin Module is designed to help the librarian or administrator manage the inventory efficiently. The admin can add new books, edit book details, delete old records, and monitor which books are currently borrowed or returned. The Database System stores all information securely, including user data, book details, borrowing records, and messages from the contact form.  In this project, the Contact Form plays an important role by allowing users to directly send messages, suggestions, or queries to the librarian or administrator. This improves communication and ensures that any issues can be solved quickly. My role in this project involved designing and coding the front-end interface using HTML, CSS, and JavaScript to make the website responsive and attractive. I also worked on the user login and registration system using PHP to ensure secure access. I developed the dynamic book catalog that connects to the MySQL database, created the admin dashboard for book management, and added the automatic fine calculation feature. After completing the development part, I tested the entire website to make sure all modules work properly and that data is stored correctly without any errors.  Overall, the Local Library Website is a useful and practical project that helps in automating traditional library tasks. It saves time, reduces manual effort, and keeps all data organized in one place. The system provides an easy and modern solution for managing books, tracking borrowing activities, and improving user interaction. By creating this project, I learned how to connect front-end and back-end technologies, handle databases, and build a complete functional website that can be used in real-life situations. This project has helped me understand the importance of web development and database management in solving everyday problems through technology. | |

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