Sasin Ransara

Software Engineering Undergraduate | Full Stack Developer

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LinkedIn Profile | GitHub Profile

About

I am a dedicated and motivated undergraduate with a strong foundation in software development, problem solving and technical innovation. Proficient in programming languages with hands-on experience in building web and mobile applications, Skilled in front-end and back-end development, utilizing technologies. Passionate about learning new technologies and scalable solutions. Seeking opportunities to further develop skills and contribute to innovative projects in a collaborative environment.

Experience

- IT Support & marketing in A/L Applied Mathematic Class, Galle.   2020 – 2021
    - Social Media Poster Design
    - Social Media Promotional Video Creating
    - Zoom meeting handling
- Software Developer   2022 February - Present
    - I have led 4 projects as a software development leader in the university.

Group Projects

Aradhana Books & Stationary Online Selling Management System

Source Code | *MERN Stack*

The Online Selling Management System for Aradhana Books & Stationary is a web-based application designed to streamline and optimize the operations of an online bookstore and stationery shop. This system efficiently integrates multiple core business functions to enhance productivity, improve customer experience, and ensure seamless order fulfillment.

The application is structured around eight key functional modules, each playing a vital role in the overall system:

1. Product Management – Allows administrators to add, update, categorize, and manage inventory, ensuring real-time stock level tracking.
2. Order Management – Facilitates order processing, from order placement to fulfillment, with automated status updates.
3. Customer Management – Maintains customer profiles, reviews, and interactions to improve engagement and service.
4. Tracking Management – Enables real-time tracking of orders and deliveries, providing customers with accurate updates.
5. Loyalty Discount Management – Offering discounts and benefits to loyal customers.
6. Staff Expenses & Salary Management – Manages employee salaries, expenses, and payroll calculations, ensuring accurate financial tracking.
7. Payment & Return Handling Management – Supports multiple payment methods, manages transactions securely, and handles return/refund requests efficiently.

8. Delivery Management – Streamlines the delivery process, assigns couriers, and optimizes logistics for timely and reliable order fulfillment.

The system is built using the MERN stack (MongoDB, Express.js, React.js, and Node.js) for a robust and scalable architecture. It ensures secure user authentication, efficient data management, and a responsive user interface to cater to both customers and administrators.

This project enhances the operational workflow of Aradhana Books & Stationary, offering an efficient, user-friendly, and automated platform for managing an online retail business effectively.

Online Tour Guide Management System

Source Code | *MVC Architecture, Java, MySQL*

The Online Tour Management System is a web-based application designed to streamline and automate the management of tour guides and travel-related operations. Built using Java and following the MVC (Model-View-Controller) architecture, this system ensures a structured, maintainable, and efficient approach to managing tour-related data.

Core Features & Functionality

- Guide Management (CRUD Operations) – Allows users to add, view, update, and delete tour guide information efficiently.

Online Apartment Sales System

Source Code | *HTML, CSS, JavaScript, PHP, and MySQL*

This Application designed to facilitate the buying, selling, and management of apartments through an interactive and user-friendly platform. This system provides seamless experience for both buyers and sellers by offering essential features such as property listings, inquiries, and user management.

Education

BSc (Hons) in Information Technology Specializing in Software Engineering   CGPA: 2.97
Sri Lanka Institute of Information Technology (SLIIT)   2022 – Present

G.C.E. Advanced Level Examination 2021   Engineering Technology (C C C)
G.C.E. Ordinary Level Examination 2016   B-5, C-3, S-1

Technical Skills

Programming Languages: Java, JavaScript, Python, PHP, Kotlin

Libraries / Frameworks: ReactJS, Microsoft .NET, ExpressJS

Databases: MySQL, MongoDB

Other Tools and Technologies: API testing, Figma, Git

Technical Skills

Leadership, Problem Solving, Creativity, Time management, Communication