<h1 style="text-align:center;">Online Book Store-BookShell</h1>

Technical Feasibility:

The technical feasibility of the online book store project is high, as it leverages modern web development technologies and best practices. The project aims to create a robust web application that connects buyers with sellers, streamlining the book purchasing process. It employs a responsive front-end design using HTML/CSS for a user-friendly interface.

The back-end is powered by PHP, ensuring efficient data processing and management. The project is divided into four main modules: Admin, Sellers, Delivery boy and Customers, each with distinct functionalities.

Key features include user registration and authentication, a comprehensive product catalog with advanced search and filtering options, a secure shopping cart, and order history for customers. Additionally, sellers can efficiently manage their book listings, orders and schedule delivery boy to deliver the books, deliver boy delivers the book on time ,while administrators have full control over user and seller management, content management, and customer support.

The system also incorporates reporting and analytics, enabling data-driven decisions, and the ability to create and manage promotions and discounts.

In conclusion, the project demonstrates strong technical feasibility with its well-planned architecture, utilization of industry-standard technologies, and a wide range of user-facing and admin-facing functionalities.

Behavioral Feasibility:

The behavioural feasibility of the online book store project is strong, driven by its user-centric design and a wide array of features that cater to both customers and sellers. The project aims to create a user-friendly platform that provides convenience, accessibility, and personalized experiences for users.

For customers, the system offers easy registration, secure authentication, and efficient profile management. It provides a rich product catalogue with advanced search and filtering options, enabling users to find and explore books based on their preferences. The shopping cart and wishlist functionalities enhance the shopping experience, while reviews and ratings facilitate informed purchasing decisions. The secure checkout and payment process ensures a safe and seamless transaction, with access to order history for tracking.

Sellers benefit from a straightforward registration process and the ability to manage their book listings effortlessly. They can monitor incoming orders, update order statuses, and efficiently manage inventory. Reporting and analytics tools empower sellers with valuable insights into sales trends and popular genres, enabling data-driven decisions.

Administrators have full control over the system, including user and seller management, content management, and customer support. They can ensure the platform's integrity and oversee the approval of publishers.

Operational Feasibility:

The operational feasibility of the online book store project is evident through its comprehensive and user-centric functionalities. The system streamlines the buying and selling of books, offering customers the convenience of shopping from their homes while bridging the gap between sellers and buyers. The project's intuitive web application provides a personalized browsing experience, allowing users to explore an extensive book catalog with ease.

Operational modules cater to administrators, sellers, and customers, ensuring efficient control, management, and user engagement. User-facing features, including registration, product catalog, shopping cart, and secure checkout, enhance the user experience. Admin-facing functionalities encompass user and seller management, content control, and customer support.
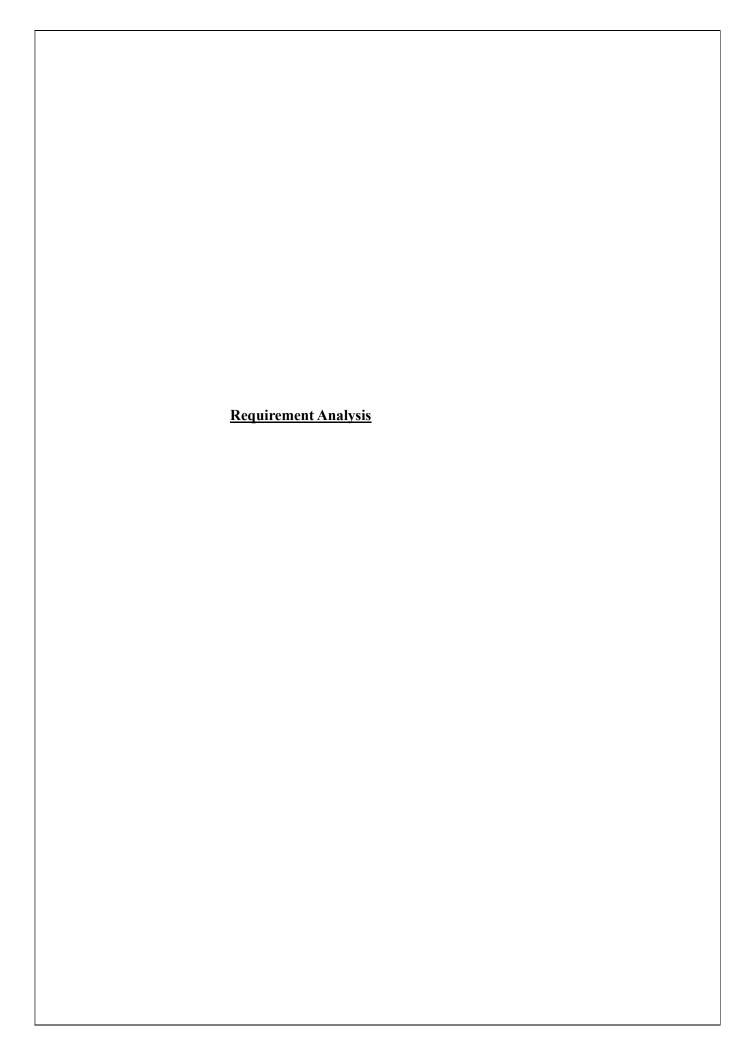
The project's operational feasibility is reinforced by its seamless integration of front-end and back-end technologies, enabling a smooth and efficient online book shopping experience for all stakeholders.

Economic Feasibility:

The economic feasibility of the online book store project is promising. By facilitating online book sales, the project opens up a lucrative market for publishers and sellers to reach a broader customer base, thereby increasing their revenue potential. Customers benefit from cost-effective book purchases and the convenience of online shopping, resulting in potential cost savings and time efficiency.

Revenue streams are diversified, encompassing book sales, commission from seller transactions, and potential advertising opportunities. The elimination of physical storefronts and associated overhead costs contributes to cost-effectiveness.

With effective marketing and user engagement, the project can generate sustainable income and foster growth, making it economically viable in the long run.

Requirement Analysis

Project Overview:

The project is an online book store web application designed to facilitate the purchase and sale of books over the internet. It provides a platform for users to explore a vast catalog of books, including various genres and formats. The system allows customers to create accounts, browse books, add them to the shopping cart, make purchases, leave reviews, and even sell their old books. It also offers administrative control for managing users, sellers, and the website's content.

To what extent the system is proposed for:

The system is proposed as a comprehensive online book store that covers the entire lifecycle of buying and selling books. It includes functionalities for user registration, authentication, product catalog, shopping cart, checkout, order history, seller management, sell used books,delivery of books and so on. It caters to both customers and sellers, providing a full-fledged e-commerce platform for books.

Specify the Viewers/Public involved in the System:

The viewers/public involved in the system include:

Customers: Individuals interested in buying books online.

Sellers: Entities looking to list and sell books on the platform.

Delivery boy: To deliver the books.

Administrators: System administrators responsible for managing the website, users, and content.

List the Modules included in your System:

The system is divided into four main modules:

Admin Module

Seller Module

User (Customer) Module

Delivery boy Module

Identify the users in your project:

The users in the project are categorized into three main roles:

Sellers: Individuals or organizations listing and selling books.

Customers: Individuals purchasing books and interacting with the system.

Delivery boy: Individuals who deliver the books.

System is related to which firm/industry/organization:

The system is related to the online book retail industry. It serves as a platform for publishers and customers to engage in book-related transactions. The specific firm or organization behind this system is not mentioned in the provided project description.

Details of the person that you have contacted for data collection:

Mr. Sunil Joseph

Secretary

Paloorkavu Library

Mr. Sebastian Parakal

Librarian

Amal Jyothi College of Engineering, Kanjirappally

Ms.Bobina

Librarian

Mundakayam Library

Questionnaire to collect details about the project:

1.On what basis delivery boy is selected?

By verifying their licence and vehicle number.

2. How will sellers determine the pricing for their used books?

Sellers should assess the condition of their books accurately and adjust the price accordingly. Factors such as wear and tear, annotations, missing pages, and overall appearance impact the value of the book. However, customers can bargain the price and can reach to a conclusion.

3. How will delivery boys receive assignments for book deliveries?

Sellers can assign the delivery boy based on their pincode and the customers pincode.

4. How will assignments be prioritized to ensure efficient delivery management?

Assignments may be prioritized based on factors such as delivery urgency (e.g., same-day delivery, express delivery), delivery location proximity, and delivery time windows specified by customers.

5. Will delivery boys be required to confirm or accept each assignment they receive?

Delivery boys will be required to confirm or accept each assignment to acknowledge receipt and commitment to completing the delivery.

6.How should the delivery of used books should be ensured?

The contact number of the seller will be provided. Customers can contact the seller for more details. The website will only provide a platform to sell the second hand book.

7.How delivery boys get paid?

Delivery boys receive a set amount of money for each delivery they complete successfully. The commission rate may vary based on factors such as distance traveled, delivery urgency, or order value.

8. How will delivery boys confirm successful deliveries?

An otp will be provided to the customer and the delivery boy needs to update the otp to confirm successful delivery of the book.

9. Is there any replacement for the second hand book delivered?

No. Replacement of the second hand book is not available.

10. Will there be any incentives or penalties based on delivery performance metrics (e.g., Delivery personnel who consistently fail to meet delivery time commitments or deadlines may face penalties such as reduced pay rates, loss of incentives, or reassignment to less desirable delivery routes.