# 8.Project Scope

The QR Code based Smart Book store Management System is a solution that intends to revolutionize the traditional store by incorporating information technology tools to improve the effectiveness of the store and the buying experience of the intended clients(Aliyu et al., 2024). This project involves a mobile and web application interface to be developed in HTML, CSS, and JavaScript for customers, and PHP for the administration and management of inventory control, creation of product codes, user login, and order management. MySQL database will be required to store necessary records such as: books, customer data, and sales data. The system will also use qr code/barcode scanning tools: jsQR, ZXing or Firebase ML Kit so that users can use their smart phones to scan the books directly to get detail information and transaction. These include an admin panel, customizable book shelves, client-oriented design, and the option of generating electronic receipts. Hardware products such as a barcode reader or physical layout of servers will not be considered. The major target of this system will comprise of employees of the bookstore and the clients and its main purpose will be to minimize mistakes, execute tasks faster and satisfy the clients.

# 9. Objectives and Measures of Success

The main goal of the project is to design the QR code based effective system for the management of the bookstore to make the working process less complicated with increasing the reassurance of clients. The ideas behind the system include automated check-out, inventory control, and real-time access to book information. Key objectives include:

* Reducing average checkout time by at least 40%
* Improving inventory accuracy to above 95%
* Achieving 80% user satisfaction in post-deployment feedback
* Ensuring 99% system uptime for reliability

Evaluating the usability of the application as a measure of success will involve user testing feedback, an analysis of the app’s admin analytics data, a consideration of the error log history, and feedback from stakeholders(Lewis & Sauro, 2021). Success measurement will be key milestones, including low customer wait time, minimal manual data input and high system response time among others. Both surveys and stakeholder reviews will be administered after pilot runs to assess the global performance of the system and the general satisfaction levels.

# 10. Stakeholder Analysis

This project includes a variety of stakeholders with different roles and expectations:

* **Client (Bookstore Owner):** Provides the business requirements and approves the final deliverables. He is the primary sponsor and decision-maker.
* **Project Team (Developers and Designers):** Responsible for system design, coding, testing, and deployment. They interact closely with the client to align technical solutions with business goals.
* **Customers (End Users):** Will interact with the system via smartphones to scan books, browse inventory, and make purchases. Their feedback is critical for future enhancements.
* **IT Support Team (Post-launch):** Ensures ongoing system functionality, updates, and maintenance.
* **Library/Plugin Providers:** External contributors like ZXing or Firebase ML Kit supply scanning libraries critical to the system.

Each stakeholder’s role is crucial. The group, individual, and societal stakeholders will be involved in the iterative feedback, testing, and progress reports to maintain their attention and participation during the development process.

# 11. Project Team

The human resources involved are competent individuals who are capable of providing users with efficient and effectual online bookstore. As for the key position within the team, the Project Manager will be responsible for analysis and planning as well as the coordination with other departments in order to meet the deadline and satisfy the clients.

The Web Developer will be tasked with coding as well as handling the integration with the backend and system. The UI/UX Designer is charged with the responsibility of ensuring that the web application has an effective and engaging interface for buying and browsing (Pradhan, 2024).

A Content Manager will ensure that the book catalog is properly arranged, and each record is updated to reflect the correct information. Apart from the Marketing Officer, responsible for the online campaign and customer engagement, the Customer Support will be in charge of issues and queries, arising once the project is launched.

Combined, the team skills are a solid combination of technical proficiency, artistry in design, and an emphasis on customer satisfaction to offer the right types of skills for the project to meet its goals in digital commerce.

# Reference

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