M.S.E

Master in Software Engineering

PROJECT

Final Semester

Student Name Faculty Name

Gehlot Sameer Shahana Khan

Index

|  |  |  |
| --- | --- | --- |
| Sr no. | Title | Page no. |

|  |  |  |
| --- | --- | --- |
| 1 | Introduction | 1 |
| 2 | Site Title and Tech Stack | 2 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Introduction**

**The Online Book Library is a web-based platform built using PHP that aims to provide users with a simple and accessible way to explore and read books directly from their browser. The website functions as a digital library where users can browse a collection of books, view details about each title, and read them online without the need to download. This project is designed with a user-friendly interface to make the experience smooth for both casual readers and avid book lovers. It also lays the foundation for adding features like user accounts, bookmarking, and personalized reading lists in the future.**

**The goal of this project is to encourage reading and provide a free, open-access digital space for literature and learning. By using PHP for the backend, the site can dynamically manage book data, handle user interactions, and scale easily. The system will support admin access to upload and manage book entries, making it flexible for small libraries, schools, or personal use. Overall, this project combines simplicity, accessibility, and functionality to create a modern solution for digital reading.**

Site Name and Tech Stack

**Site Name**

The website is named **Bookzy**, an online platform designed to offer users easy access to a wide variety of books. The goal of Bookzy is to create a digital library where readers can browse, search, and read books conveniently from any device.

Technologies Used

The name of the project is **Bookzy**, a digital book library platform where users can read, explore, and manage books online. Bookzy is designed with a clean, responsive user interface and a robust backend architecture. It supports essential features like book listings, user authentication, admin management, and a modern search experience — making it suitable for educational, personal, or public use.

**🖥️ Frontend**

* Blade Templating Engine  
  Laravel’s built-in templating engine is used to create dynamic and reusable HTML views with embedded PHP logic.
* Tailwind CSS  
  A utility-first CSS framework used to design responsive, modern, and clean user interfaces with ease.
* jQuery  
  A lightweight JavaScript library used to simplify DOM manipulation, event handling, and AJAX functionality.
* HTML5 & CSS3  
  Standard web technologies used for structuring and styling the UI.
* JavaScript  
  Enhances interactivity and handles client-side functionality when needed.

⚙️ **Backend**

* Laravel 12 (PHP Framework)  
  A modern PHP web framework used to handle routing, middleware, controllers, authentication, and database operations using the MVC pattern.
* Composer  
  PHP dependency manager used to install and manage Laravel packages and third-party libraries.

🗄️ **Database**

* MySQL  
  Relational database used to store and manage all persistent data such as users, books, categories, etc.
* Laravel Eloquent ORM  
  Object-Relational Mapping system that simplifies database interaction through Laravel models.

🛠️ **Development Tools**

* Laravel Artisan — Command-line tool for automating common Laravel tasks
* PHPMyAdmin — GUI for managing MySQL database (or Laravel Migrations)
* XAMPP / Laravel Sail / Valet — Local development environment options
* Visual Studio Code — Code editor