ROLES AND RESPONSIBILTIES

We (**RAHUL CHAURASIYA & YUVRAJ TIWARI)** take the responsibility of completing the project pertaining to which we are members.Our role in this project involves the development of the whole system from scratch .All the roles and responsibilities will be fulfilled by us within the given time :

- **Frontend Module:** The frontend design would be done by Yuvraj Tiwari and Rahul Chaurasiya.

- **Backend Module:** The backend design would be done by Yuvraj Tiwari and Rahul Chaurasiya.

- **Login Module:** This Module will enable users to log in using Their previous Data.

- **User Module:** Allows users to login in to Access and Manage their account .
- **Browse Text** Books**:** Users can view Available text book for purchase or Resale.
- **Add To Cart:** Users can Add to text book to their Cart of purchase.
- **Sell Text Book:** User can list their text book for Resale .
- **Transaction Management:** Handle purchasing and selling transaction Securely.
- **Customer Support:** Provides Assistance for Buying and Selling text book.

Abstract On Re-Book

A Customer-to-Customer (C2C) Books Transaction System websitefacilitates direct book.

exchanges between users. It simplifies listing, browsing, and purchasing second-hand books.

Users can create listings, search for specific titles, and negotiate prices directly with sellers.

The website ensures secure transactions through built-in payment systems and user ratings.

Key features include a user-friendly interface for posting listings and managing transactions.

Users can communicate securely through messaging systems and arrange delivery or pick-up

options. The website fosters a community environment where book lovers can connect, share

reviews, and recommend titles.

Keywords: Customer-to-Customer (C2C), books transaction system, second-hand books

CHAPTER 1 INTRODUCTION

1.1 Background

ReBook is a revolutionary multi-vendor e-commerce platform designed to empower students by addressing a crucial need: affordable access to essential textbooks. Recognizing the significant financial burden students face when purchasing new textbooks each semester, ReBook operates on a student-to-student (C2C) model, creating a convenient and cost-effective solution for buying and selling used textbooks.Traditionally, once a semester ends, valuable textbooks often gather dust on shelves, their usefulness relegated to the past. ReBook disrupts this cycle by providing a dedicated platform for students to list, sell, or even trade their used textbooks. This empowers students to recoup a portion of their initial investment, offering a welcome financial relief.

Beyond individual financial benefits, ReBook promotes environmental sustainability by fostering the reuse and recycling of textbooks. Countless textbooks end up in landfills each year, representing a significant waste of resources. ReBook tackles this challenge by extending the lifespan of these valuable resources, allowing them to continue benefiting students who need them most.Furthermore, ReBook fosters a vibrant community of buyers and sellers within the student population. By connecting students directly with each other, ReBook eliminates the middleman, enabling buyers to purchase used textbooks at significantly lower prices compared to traditional retailers. This direct interaction translates to substantial savings for students, allowing them to allocate their limited resources more effectively.As a platform dedicated to student empowerment, ReBook prioritizes convenience and ease of use. Its intuitive interface allows students to quickly search for and list textbooks, engaging in secure transactions directly with their peers. The platform also facilitates communication and negotiation between buyers and sellers, ensuring a smooth and transparent transaction process.

RE-BOOK

1.2 Objectives

- To Provide a platform for students to buy and sell textbooks directly, promoting affordable access to academic materials.

- To Encourage textbook reuse and exchange, reducing the need for new books and supporting a circular economy.

- To Offer a user-friendly platform accessible from various devices, with responsive design for T optimal user experience.

- To Implement strong security measures, including encryption and authentication, to ensure data privacy and prevent fraud.

- To Enable seamless user registration and role-based access control, with dedicated dashboards for vendors and customers.

- To Provide an intuitive interface for textbook listings with effective search and filtering options.

- To Develop an admin panel for efficient management and moderation of website content and user activities.

- To Use Agile methodologies to deliver working website features iteratively, allowing for flexibility and quick adaptation.

- To Employ reliable technologies like Laravel for back-end and Bootstrap for front-end development, ensuring responsiveness.

- To Continuously improve the platform by addressing challenges and incorporating user feedback and industry trends.

RE-BOOK

1.3 Purpose

- Address High Textbook Costs Tackle the issue of expensive textbooks, which pose a financial challenge to college students.

- Facilitate Direct Transactions Create a multi-vendor e-commerce platform where students can buy and sell textbooks directly with each other.

- Foster a Collaborative Marketplace Encourage a community-driven exchange of textbooks, promoting collaboration among students.

- Enhance Convenience Provide an easy-to-use platform that simplifies access to necessary educational materials.

- Promote Sustainability Encourage the reuse and exchange of textbooks to reduce the demand for new copies and support sustainable resource utilization.

- Ensure Affordability Focus on creating a marketplace that prioritizes cost-effective solutions for textbook access.

- Increase Accessibility Make textbooks more accessible to students through a user-friendly online platform.

- Alleviate Financial Burden Reduce the financial strain on students by offering affordable options for acquiring textbooks.

- Improve Resource Efficiency Facilitate an efficient exchange system for textbooks within the academic community.

- Enhance Educational Experience Aim to enrich the overall educational experience by providing practical solutions to textbook challenges.

1.4 Scope

Methodology:

 Agile Software Development Utilize Agile methodology to iteratively develop and refine the platform, ensuring flexibility and responsiveness to feedback and changing requirements. User Authentication and Registration: Implement a secure system for users to register, log in, and manage their credentials on the platform. User Profile Management: Enable users to create and update profiles, including managing their listings and transaction history.Admin Panel: Develop an admin dashboard for managing users, monitoring transactions, and overseeing platform activities. Security and Privacy: Ensure robust data protection measures, including encryption and secure transaction processing, to safeguard user information.

- Limitations:
    - The platform may face challenges in attracting and retaining an initial user base, affecting early transaction volume.

•   Dependence on chosen technologies may limit platform capabilities or require workarounds for desired features

Assumptions:

•   We assum It is assumed that users will actively participate in buying and selling, driving the platform's success.

•   We assum Stable Internet Access Users have consistent access to stable internet connections to interact with the platform effectively.

•   We assum Regulatory Compliance The platform assumes compliance with relevant e-commerce and data protection regulations.

CHAPTER 2

SURVEY OF TECHNOLOGIES

2.1 Existing System

Text Editors/Integrated Development Environments (IDEs) Visual Studio Code: It provides a user-friendly interface and a wide range of powerful features, including extensive extensions, and efficient code editing capabilities.We use it because of below features:User-Friendly, Interface Extensive ,Extensions Integrated ,Terminal Powerful Code Editing Capabilities Front end development:HTML and CSS: HTML use for structuring the content and

CSS (with Bootstrap framework) for styling the website or enhance the user experience .JavaScript: Implement interactive elements, such as product filtering, shopping cart functionality, form validation, etc.

Back end development**:**Server-side programming language: PHP (with Laravel framework) is used as the server-side programming language for the ReBook project. PHP enables the dynamic generation of web pages and handles the logic behind user interactions on the platform.Database Management with phpMyAdmin and Mysql: For managing the database, we will use phpMyAdmin. phpMyAdmin allows us to interact with the database directly through a web browser, making it easier to create, modify, and query the database without the need for command-line access.Connection Between Laravel and MySQL In the back-end development process, Laravel establishes a connection with the MySQL database managed by phpMyAdmin. Laravel uses a configuration file to specify the database credentials, such as the database name, username, password, and host. This allows Laravel to perform various database operations, including storing and retrieving data related to products, orders, user information, etc.

2.2 List of Technologies

RE-BOOK

Following is the list of the technologies / software which can be used to develop a system based on particular requirements:

- **HTML** : stands for HyperText Markup Language. It's the standard languageused to create and design webpages.

- **CSS**: stands for Cascading Style Sheets. It's used to describe the presentation and layout of a document written in HTML.

- **JavaScript** : doesn't have a full form; it's a programming language used to create dynamic and interactive content on websites. The name "JavaScript" was chosen partly to capitalize on the popularity of Java at the time, though the two languages are distinct and unrelated in terms of their syntax and design.

- **JQuery**: doesn't have a full form. It's a fast, small, and featurerich JavaScript library designed to simplify things like HTML document traversal and manipulation, event handling, and animation. The name "jQuery" is just a brand name for the library.

- **Bootstrap** :doesn't have a full form; it's a front-end framework for developing responsive and mobile-first websites. It includes a collection of CSS and JavaScript components to help streamline the design and development process. The name "Bootstrap" reflects the idea of using a "bootstrap" to help kickstart or accelerate development.

- **MongoDB:** doesn't have a full form. It's a NoSQl database that stores data in a flexible, JSON-like format.The name "MongoDB" is derived from the word "humongous," reflecting the database's capability to handle large amounts ofdata.

- **Next.js**: doesn't have a full form; it's a React framework used for building server-side rendered and static web applications.The name "Next.js" reflects its focus on being the "next" evolutionweb development tools. driven web applications.

• **VsCode:** Visual Studio Code is a streamlined code editor with support for development operations like debugging, task running, and version control. VSCode offers integrated debugging capabilities.

2.3 Comparative Study

Technology	Features	Advantages	Disadvantages
HTML	• Markup Language • Platform Independent • Responsive Design • Easy to Learn • Extensible	• Simple and Easy to Learn • Platform Independent • Structuring Content • Extensible • SEO-Friendly	• Limited • Styling • Capabilities • No Interactivity • Static • Content • Browser • Compatibility • No Built-In Data • Handling

CSS	• Styling • Layout Control • Responsive Design	• Responsive • Design. • Reusability • Performance • Browse Complexity • Specificity Issues • Browser	• ComSecurity Performance • Risks • Browser • Compatibility • Security Performance • Risks
JavaScript	• Interactivity. • Event Handling • Asynchronous Operations	• Versatility • Rich Ecosystem • Real-time Up dates	• Browser • Compatibility • Security Performance • Risks

JSON	• Fast data transfer. • Human readable format	• Lightweight. • Language Independent.	• Complex in large projects

jQuery		•Ease of Use Broad Support Legacy Support	• Performance • File Size • Overhead.
Bootstrap	• Responsive Design Pre-styled Components Customizable	• Rapid Development Consistency Community Support	Design Uniformity Learning Curve Overhead
MongoDB		• Flexibility • Scalability • Real-Time Data	• Data Consistency • Complex Queries • Memory Usage
Next.js	• Side Rendering (SSR) • Static Site Generation (SSG) • API Routes	• Performance • SEO-Friendly • Flexibility	• Learning Curve • Build Times Server • Requirements

2.4 Selected Technology

List of Technologies

- Html

- Css

- Java Script

- Json

- Jquery

- Boostrap

- Mongo db

- Next js

Selected Technology & Why?

1) HTML:

- HTML stands for HyperText Markup Language. It's the standard language used to create and design webpages.
- Some features of Html
  - Structure
  - Elements Attributes
  - Semantic HTML

2)CSS:

- CSS stands for Cascading Style Sheets. It's used to describe the presentation and layout of a document written in HTML.

- Some features of Css
  - Select
  - Properties anlysis
  - Box Model
  - Flexbox/Grid

3)JAVASCIRPAT :

- JavaScript doesn't have a full form; it's a programming language used to create dynamic and interactive content on websites. The name "JavaScript" was chosen partly to capitalize on the popularity of Java at the time, though the two languages are distinct and unrelated in terms of their syntax and design.

- Some features of javascripat

  o Programming Language

  o Syntax

  o DOM Manipulation

  o Events

  o ES6

4)JQUERY:

▪ jQuery doesn't have a full form. It's a fast, small, and feature-rich JavaScript library designed to simplify things like HTML document traversal and manipulation, event handling, and animation. The name "jQuery" is just a brand name for the library.

▪ Some features of JQUERY:

  o JavaScript
    Library

  o   Selectors

  o   Animations

5)BOOTSTRAP:

▪ Bootstrap doesn't have a full form; it's a front-end framework for developing esponsive and mobile-first websites. It includes a collection of CSS and JavaScript components to help streamline the design and development process. The name "Bootstrap" reflects the idea of using a "bootstrap" to help kickstart or accelerate development.

  ▪ Some features of BOOTSTRAP:

    o GridSyst
      e-em
    o CSS
    o Fraekes
      Customi
      n-er

6)MONGODB:

- MongoDB doesn't have a full form. It's a NoSQL database that stores data in a flexible, JSONlike format. The name "MongoDB" is derived from the word "humongous," reflecting the database's capability to handle large amounts of data.

- Some features of MONOGODB:

  o NoSQL

  o Database

  o Document

  o Orieted

  o Flexibility