Book-e-Sell E-commerce web site

Prepared at

TatvaSoft

INTERNSHIP REPORT (CT804-N)

Submitted by

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In fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

Computer Engineering

LDRP Institute of Technology and Research, Gandhinagar

Kadi Sarva Vishwavidyalaya

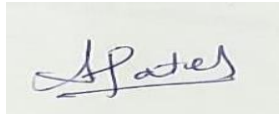**April, 2023**

Summer Internship Certificate

Date 1/07/2022

This is to certify that Prajapati Yash HASMUKHBHAI undergone summer internshipfrom 24th May 2022 to 24th Jun 2022. Details of the project is as under

Name of project: Book-e-Sell E-commerce web site

Technology: .net /postgres/ reactjs

We wish him/her grand success for the future.

Authorized Signatory

TatvaSoft, Ahmedabad

-: **About Company:** -

TatvaSoft is a leading software development company that provides customized software solutions to businesses of all sizes across various industries. With over 19 years of experience, the company has established itself as a reliable and trusted technology partner for its clients. Their team of highly skilled developers and designers have expertise in developing cutting-edge software applications, mobile apps, and web solutions that cater to the specific needs of each client. TatvaSoft's commitment to delivering high-quality solutions has earned them a reputation for excellence, and their long-standing relationships with clients are a testament to their dedication and professionalism. With offices in the USA, UK, Canada, Australia, and India, TatvaSoft is well-positioned to serve clients globally and help them achieve their business goals through technology.

-: <u>ACKNOWLEDGEMENT</u>: -

I would like to express my heartfelt gratitude to TatvaSoft for giving me the opportunity to complete my internship with them. This experience has been invaluable in my personal and professional growth, and I cannot thank the company enough for the knowledge, support, and guidance that they have provided me with during this time.

During my internship, I had the opportunity to work alongside some of the best professionals in the industry. Their expertise and experience have helped me gain a deeper understanding of software development and project management. I am grateful for the chance to learn from them and for their willingness to share their knowledge with me. The supportive and collaborative environment at TatvaSoft has allowed me to expand my skillset and learn new techniques and technologies that will undoubtedly be beneficial to my future career.

Furthermore, I would like to express my gratitude to my mentors at TatvaSoft who have been instrumental in shaping my internship experience. They have been patient, approachable, and provided me with valuable feedback and guidance throughout the duration of my internship. Their support and encouragement have been essential in helping me develop my skills and confidence, and I will always be grateful for their time and effort. Overall, my internship at TatvaSoft has been an incredible experience, and I am grateful for the opportunity to have been a part of such an amazing team.

With regards,

PRAJAPATI YASH HASMUKHBHAI

ABSTRACT: -

The Book-e-Sell E-commerce website is a project aimed at developing a user-friendly platform for buying and selling books online. The website is designed to provide a hassle-free experience for users who want to buy or sell books from the comfort of their homes. The website includes features such as a user registration system, a search engine for finding books, a shopping cart for purchasing books, and a payment gateway for secure online transactions. The project is developed using various technologies such as Reactjs, CSS, .net, Postgres.

The objective of the Book-e-Sell E-commerce website project is to develop an efficient and user-friendly online platform for buying and selling books. With the increasing demand for online shopping, the website is designed to provide an easy-to-use interface that enables users to search for and purchase books quickly and securely. The project is expected to be a useful resource for book enthusiasts who can buy and sell books at competitive prices. Furthermore, the website will benefit bookstores and independent sellers who can showcase their book collections on the website and expand their customer base. Overall, the Book-e-Sell E-commerce website project aims to create a convenient and secure platform for buying and selling books online.

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1. Introduction

1.1 Project Details

The Book-e-Sell E-commerce website is a web-based project aimed at developing a user-friendly online platform for buying and selling books. The project is developed using various technologies such as Reactjs, CSS, .net, Postgres. The website includes features such as user registration and login, a search engine for finding books, a shopping cart for purchasing books, and a payment gateway for secure online transactions. The project is expected to be a valuable resource for book enthusiasts, bookstores, and independent sellers by providing an efficient and user-friendly interface for buying and selling books online.

1.2 Purpose

The purpose of the Book-e-Sell E-commerce website project is to develop a reliable and user-friendly platform for buying and selling books online. The project aims to address the needs of book enthusiasts, bookstores, and independent sellers by providing an easy-to-use interface that allows them to browse, search, purchase and sell books conveniently and securely. The project also aims to contribute to the growing e-commerce industry by creating a website that provides an efficient and seamless online shopping experience for customers.

1.3 Scope: -

The scope of the Book-e-Sell E-commerce website project is to develop a comprehensive and scalable platform for buying and selling books online. The website will provide features such as user registration and login, a search engine for finding books, a shopping cart for purchasing books, and a payment gateway for secure online transactions. The project will focus on developing an intuitive and user-friendly interface that caters to the needs of book enthusiasts, bookstores, and independent sellers. The website will also be designed to be scalable, allowing for future expansion and integration of additional features as needed.

1.4 Project Goal: -

The goal of the Book-e-Sell E-commerce website project is to provide a reliable and efficient platform for buying and selling books online. The project aims to create a user-friendly interface that caters to the needs of book enthusiasts, bookstores, and independent sellers, making it easy for them to buy and sell books online. The project also aims to provide a secure and seamless online shopping experience for customers, by incorporating a payment gateway and other security measures. Ultimately, the goal of the project is to contribute to the growth of the e-commerce industry and provide a valuable resource for book lovers and sellers.

1.5 Plan of their work :-

The plan of work for the Book-e-Sell E-commerce website project involves a systematic approach to developing a fully-functional online platform for buying and selling books. The project will begin with the requirement gathering phase, followed by the design phase where the website's interface and features will be defined. The development phase will involve coding and testing of the website using Reactjs, CSS, Postgres, .net. Once the website is developed, it will be deployed on a web server and tested for functionality, security, and usability. Finally, the website will be launched and monitored for performance and any issues that may arise will be addressed in a timely manner.

1.5 Plan of their work :-

2. Technology and Literature Review

2.1 About Tools and Technology:-

2.1.1 .NET

The .NET technology is a widely used framework for building web applications, including e-commerce websites like the Book-e-Sell project. It provides a powerful set of tools and libraries that simplify the development process and allow for the creation of complex and scalable applications. The technology offers various features such as a common runtime, type safety, automatic memory management, and a comprehensive class library, making it easier for developers to build web applications with fewer lines of code. Additionally, .NET technology supports cross-platform development, which enables the website to run on multiple platforms and devices. The Book-e-Sell E-commerce website project is developed using .NET technology, and this ensures that the website is secure, reliable, and offers a seamless user experience

2.1.2 Postgres

PostgreSQL is an open-source relational database management system that is commonly used in web development, including e-commerce websites like the Book-e-Sell project. It provides a powerful set of features that allow for the creation and management of complex databases. PostgreSQL offers features such as data integrity, concurrency control, and scalability, making it an ideal choice for handling large amounts of data. It also supports various data types, including JSON, which is useful for storing complex data structures. The Book-e-Sell E-commerce website project uses PostgreSQL to manage the database, ensuring that the website is fast, efficient, and reliable, even when handling large amounts of data. Additionally, PostgreSQL is a secure database management system, which ensures that the data stored on the website is protected against malicious attacks and unauthorized access.

2.1.3 Reactjs

ReactJS is a popular JavaScript library that is widely used in web development, including e-commerce websites like the Book-e-Sell project. It provides a flexible and efficient way of building user interfaces by breaking them down into reusable components. ReactJS is designed to be fast, scalable, and easy to use, and it is widely adopted by developers around the world. The technology also supports server-side rendering, which enables the website to load faster and improves its overall performance. The Book-e-Sell E-commerce website project uses ReactJS to build the user interface, ensuring that the website is easy to use and offers a seamless user experience. ReactJS also supports the use of third-party libraries, which allows the developers to integrate additional features into the website as needed.

3 System Requirements Study:-

3.1 User Characteristics :-

User characteristics are an important consideration in the development of system requirements for the Book-e-Sell E-commerce website project. The project's success relies on understanding the needs and requirements of the users of the website, including book buyers and sellers. The system requirements must be designed to meet the needs of different user groups, including those who may have limited technical expertise or accessibility requirements. The requirements must also consider the preferences of users, such as their preferred payment methods, shipping options, and other features that are important to them. Additionally, the requirements must address issues related to security, privacy, and data protection, ensuring that users feel safe and secure when using the website. Overall, user characteristics play a critical role in defining the system requirements for the Book-e-Sell E-commerce website project, and it is important to prioritize the needs of the users in order to achieve a successful outcome.

3.2 Hardware and Software Requirements :-

Tools:-

Hardware	Software
Pentium-IV(Processor).	OS :- Windows/Linux/Mac
Ram: 256 MB	Web :- Any Browser
Hard disk: 10 GB	

3.3 Assumptions and Dependencies :-

Book-e-Sell is an e-commerce website that facilitates the buying and selling of books online. During the planning phase of any project, it is essential to identify and manage the assumptions and dependencies that can impact the project's success.

Assumptions are considered as factors that are believed to be true without any empirical proof or demonstration. For example, some assumptions for Book-e-Sell could be:

Customers will be able to find and purchase the books they are looking for easily on the website. The website will be able to handle a large volume of visitors and transactions without any technical issues.
The payment gateway will work seamlessly with the website, enabling customers to make purchases without any problems.

Dependencies, on the other hand, are tasks or activities that are reliant on the completion or initiation of another. For Book-e-Sell, some dependencies might include:

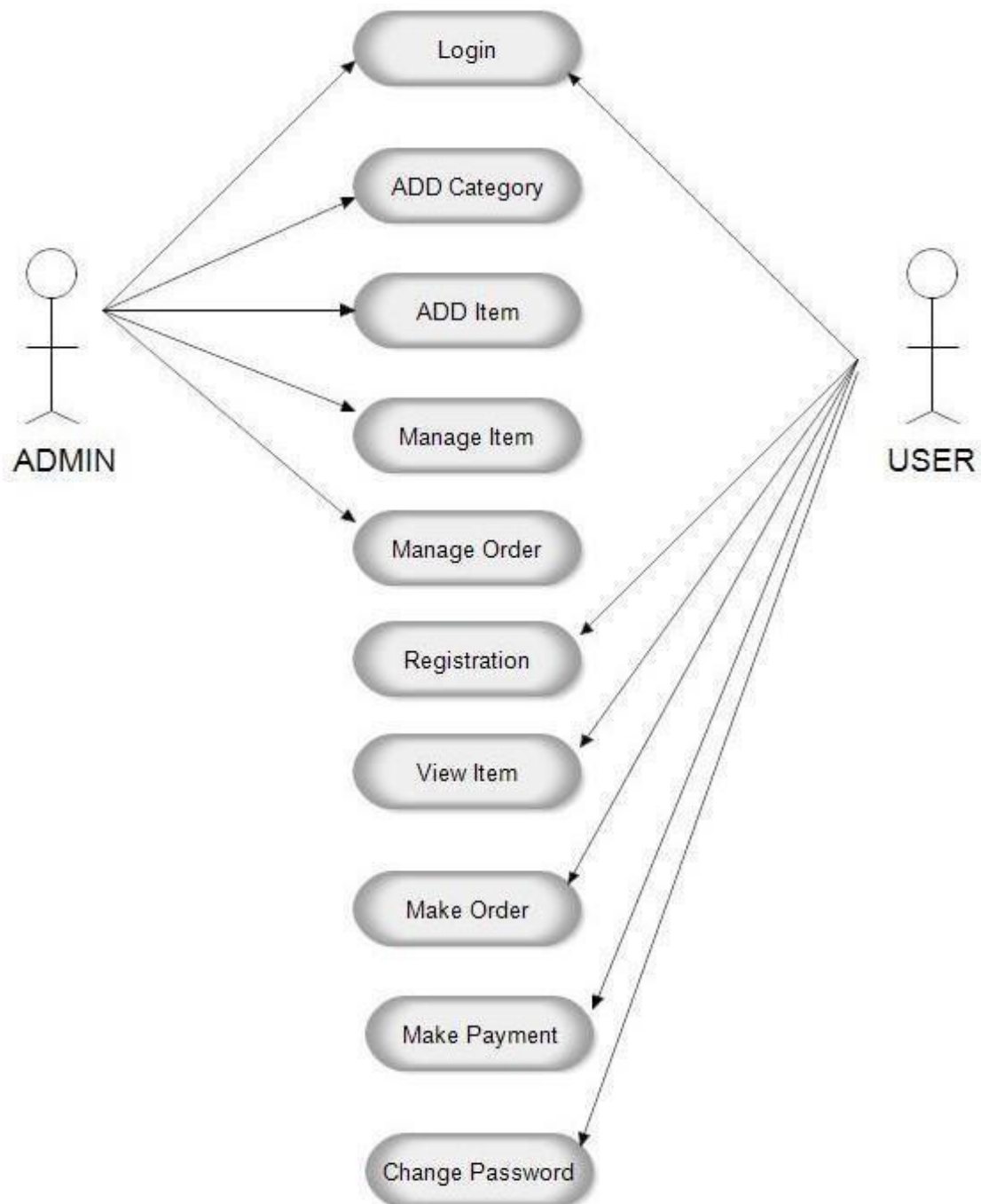The website design must be completed before the website can be developed.
The payment gateway must be integrated with the website before customers can make purchases.
The website must be tested thoroughly before it can be launched to ensure that it is functioning correctly.

By identifying and managing these assumptions and dependencies, the project team can minimize risks and ensure that the project is completed within budget and on time. Additionally, identifying these factors can help determine the critical paths and milestones of the project, ensuring that it is executed smoothly.
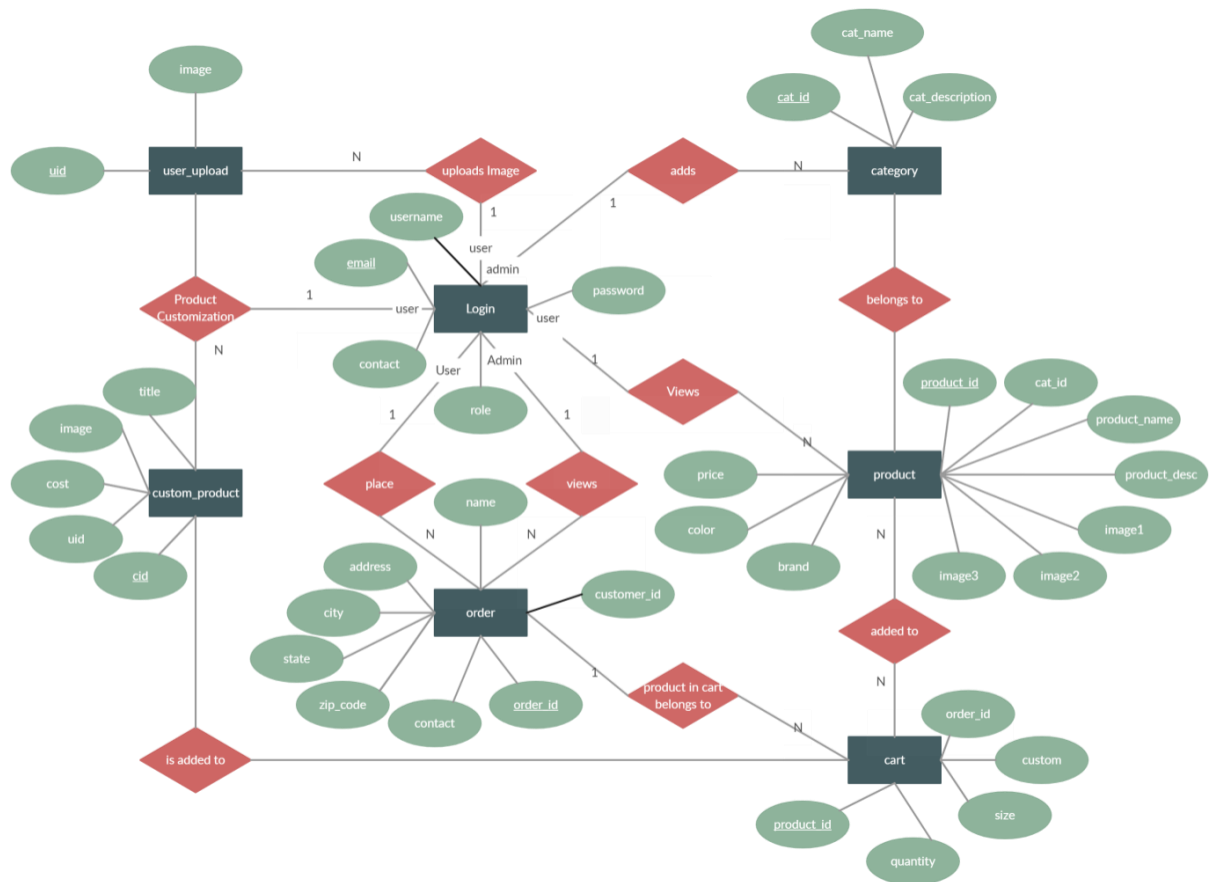
4 System Diagrams:-

4.1 Use Case Diagram

Fig(a) Use Case Diagram Admin

4.2 Entity Relation Diagram

Fig(a) ER Diagram

5. Data Dictionary:-

1. User Table: Contains information about registered users.

    -   User ID: Unique identifier for each user.

    -   Name: Full name of the user.

    -   Email: Email address of the user.

    -   Password: Encrypted password of the user.

    -   Address: Street address of the user.

    -   City: City of the user's address.

    -   State: State of the user's address.

    -   Zipcode: Zipcode of the user's address.

    -   Phone: Phone number of the user.

    -   Registration Date: Date when the user registered on the website.

2. Book Table: Contains information about books available on the website.

    -   Book ID: Unique identifier for each book.

    -   Title: Title of the book.

    -   Author: Author of the book.

    -   Publisher: Publisher of the book.

    -   Publication Year: Year of publication of the book.

    -   ISBN: ISBN number of the book.

    -   Price: Price of the book.

    -   Category: Category of the book.

    -   Description: Description of the book.

3. Order Table: Contains information about orders placed by users.

    -   Order ID: Unique identifier for each order.

    -   User ID: ID of the user who placed the order.

    -   Order Date: Date when the order was placed.

    -   Total Amount: Total amount of the order.

    -   Status: Status of the order (e.g. pending, shipped, delivered).

4. Order Detail Table: Contains information about the details of each order.

- Order ID: ID of the order to which the detail belongs.
- Book ID: ID of the book ordered.
- Quantity: Quantity of the book ordered.
- Price: Price of the book at the time of the order.

5. Cart Table: Contains information about items in the user's shopping cart.

- User ID: ID of the user who added the item to the cart.
- Book ID: ID of the book in the cart.
- Quantity: Quantity of the book in the cart.

6. Admin Table: Contains information about administrators of the website.

- Admin ID: Unique identifier for each admin.
- Name: Full name of the admin.
- Email: Email address of the admin.
- Password: Encrypted password of the admin.

6 . Result, Discussion and Conclusion

Result:

The results of the Book-e-Sell E-commerce website project could include the following:

- The website is fully functional, and users can browse and purchase books online.

- The payment gateway is integrated, allowing users to make safe and secure payments for their purchases.

- Users can create accounts, track their orders, and leave reviews for books they have purchased.

- The website has been tested for usability and performance, ensuring that users have a seamless experience while using the site.

Discussion:

- The challenges faced during the development process, such as technical issues and design challenges.

- The successes of the project, such as successfully integrating the payment gateway and creating a user-friendly interface.

- The feedback received from users during testing and how it was addressed in the final product.

- The potential for future improvements, such as adding new features or expanding the product line.

Conclusion:

In conclusion, the Book-e-Sell E-commerce website project has been a success, and the website is fully functional and user-friendly. The project team has demonstrated their ability to create an e-commerce website that meets the needs of both buyers and sellers.

7. <u>References:-</u>

<u>Reference :-</u>

- Book eCommerce Website Templates on ThemeForest
- Online Book Store Website Development Project

<u>Websites and Docs:-</u>

- https://themeforest.net/search/book%20ecommerce
- https://elogic.co/blog/ecommerce-website-development-project-plan-a-guide-to-your-project-preparation/
- https://youtube.com/