

## **DEPARTMENT OF COMPUTER ENGINEERING**

A Summer Internship Report on  
**“Online Book Store Website”**

In partial fulfilment of the requirements for the Degree of Bachelor of  
Engineering/Technology

Under subject of -  
**Summer Internship**  
**(102000701)**

**B.E semester – VII**  
**Academic year 2023-24**

Submitted by –  
**Herin Patel (12002040501018)**

Guided by -  
**Dr. Priyang Bhatt**

## **CERTIFICATE**

This is to certify that Seminar work embodied in this report entitled, “**Online Book Store Website**” was carried out by **Mr. Herin Patel (12002040501018)**, at G H Patel College of Engineering & Technology for partial fulfilment of B.E. degree to be awarded by Charutar Vidya Mandal University (CVMU). This Project work has been carried out under my supervision and is to the satisfaction of department.

Date:

**Faculty Guide**

Dr. Priyang Bhatt

Professor

**Head of Department**

Dr. Maulika Patel

Professor & Head

### **Summer Internship Certificate**

Date 7/06/2023

This is to certify that Herin Ashvinbhai Patel undergone summer internship from 17<sup>th</sup> May 2023 to 06<sup>th</sup> June 2023. Details of the project is as under

Name of project: Book Store Application

Technology: ReactJS

We wish him/her grand success for the future.

Authorized Signatory



TatvaSoft, Ahmedabad

## DECLARATION

I hereby declare that the **Summer Training report** submitted along with the Summer Training entitled **React-Js Intern** submitted in partial fulfillment for the degree of Bachelor of Engineering in Computer Engineering to Charutar Vidya Mandal University, Vallabh Vidhyanagar, is a **bonafide record of original project** work carried out by me at **Tatvasoft** under the supervision of Helly Vohra and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of Student :

Herin Ashvinbhai Patel

Signature of Student :

\_\_\_\_\_

## **ACKNOWLEDGEMENT**

The completion of any Project work depends upon cooperation, co-ordination, and combined efforts of several sources of knowledge. I would like to express my deepest thanks to **Dr. Priyang Bhatt**, for his valuable inputs, guidance, encouragement, wholehearted cooperation, and constructive criticism throughout the duration of our project.

We hope that this Project work report will provide all necessary information required to readers to fulfill their aspiration. Man's quest for knowledge never ends. Theory and practices are essential and complimentary to each other. We would like to express our sincere thanks to **Dr. Maulika Patel** (Head of Department) and **Proff. Kinjal Joshi** for their wholehearted support.

## **ABSTRACT**

In today's digital age, the online bookstore industry continues to thrive, offering readers a convenient and diverse platform to explore, purchase, and engage with their favorite books.

The Online Bookstore website project created with ReactJS is a web application designed to provide a seamless and user-friendly experience for book enthusiasts to explore, search, and purchase books online.

Leveraging the power of ReactJS, the project aims to create an efficient and interactive platform that connects readers with their favorite books, promotes discoverability, and facilitates secure transactions.

This project aims to revolutionize the way users interact with online bookstores, providing a feature-rich and responsive platform that caters to the preferences and needs of book lovers. With its userfriendly interface, personalized recommendations, and efficient checkout process, the project seeks to create an engaging and enjoyable online book shopping experience for readers of all ages and interests.

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# **Chapter 1 : Company Profile – TatvaSoft**

<b>Company Name</b>	<b>TatvaSoft: Software Development Company</b>
<b>Address</b>	TatvaSoft House, Near Shivalik Business Center Sarkhej - Gandhinagar Highway, Rajpath Rangoli Rd, Ahmedabad, Gujarat 380054
<b>Contact Number</b>	096014 21472
<b>Year of Establishment</b>	2001
<b>Email</b>	<u><a href="mailto:info@tatvasoft.com">info@tatvasoft.com</a></u>
<b>Company Website</b>	<a href="https://www.tatvasoft.com/">https://www.tatvasoft.com/</a>

*Table 1: Company Details*

## **1.1 History**

TatvaSoft is a custom software development company based in Ahmedabad, Gujarat. It was founded in 2001 and offers services on diverse technology platforms such as Microsoft, Java, PHP, Open Source, BI, and mobile. TatvaSoft's founder, Manish Patel, has an approval rating of 84%. Its primary competitors are Gateway Group, SoftProdigy, and Damco Group. Gateway Group, founded in 1997, is one of TatvaSoft's top competitors and has 306 fewer employees than TatvaSoft.

## 1.2 Different Product/Scope of the work

- TatvaSoft is delivering splendid business IT Solutions and related services to customers across the globe. Their development services are led by their dedicated and passionate team to provide best industry practices combined with technical expertise and business domain knowledge to drive digital transformation. Our proficiency in understanding business challenges and professional competence allows them to create a better experience for their customers.
- They excel in delivering the best-suited solution as per the custom needs, be it small start-ups in their ideation phase or mid-size businesses focusing on growth or large enterprises actively optimizing processes across varied industries like Fintech & Insurance, Oil & Gas, Mining, Education, Retail & Ecommerce, Energy and Utilities, Logistics & Distribution, Healthcare, Travel & Hospitality, Media & Entertainment, Public Sector.
- TatvaSoft designs to implement advanced custom software solutions and mobile apps to simplify your business problems. Focusing on the latest technologies, agile methodologies & DevOps, they offer cost-effective digital solutions for you to innovate and optimize your business performance

## 1.3 Services

The various services provided by TatvaSoft are:

- Custom Software Development: The custom software development process encompasses designing, developing, deploying, and maintaining custom software solutions and services.

- Web Application Development: Design, develop and deploy web applications to bring impactful changes within your web development projects.
- Dedicated Development Team: Optimize & scale your business delivery by hiring dedicated software developers, with freedom to screen, select and manage the extended team.
- Software Product Development: TatvaSoft offers an intuitive and design-led software product development services to accelerate software products.
- Ecommerce Development: TatvaSoft's capability to build flexible & resilient ecommerce platforms empowers business to provide omnichannel, mobile and personalized experience.
- Mobile Apps Development: TatvaSoft is well experienced Mobile App Development Company with a proven track record of delivering effective apps.
- Software Testing & QA: Experience Next-Gen software testing & Quality Assurance services with TatvaSoft.
- UI/UX Design: Explore innovative digital experience by offering a blend of technology, creativity & personalization in UI & UX development services.

## **1.4 Departments**

The various departments of TatvaSoft are:

1. Fintech & Insurance
2. Education
3. Energy and Utilities
4. Healthcare
5. Media & Entertainment
6. Oil, Gas & Mining
7. Retail & Ecommerce
8. Logistics & Distribution
9. Travel & Hospitality

## **1.5 Working Environment**

As an intern, I am blessed that I got the opportunity to explore an amazing work environment at TatvaSoft. All of my colleagues are cooperative, friendly, and understanding. I never felt left out because everyone is so inspiring and optimistic.

# **CHAPTER 2 : INTRODUCTION TO PROJECT**

## **2.1 Overview**

- I'm working on Online Book Store Sale System as an intern. Book store application is a simple project similar to a shopping cart or eCommerce website but is only for book shopping and selling books. Through a web browser the customers need to login or register later can search for a book by its title or author, later can add it to the shopping cart, and finally purchase the books. And the sellers can add books for selling.
- In this project, I have used react.js a JavaScript library for frontend. I have also used basic html and CSS. For Api I have used Json for backend.

## **2.2 Purpose of the project**

- E-Book Store is a specific requirement of the client that integrates the buying and selling services specifically to their customers.
- Allows the user to get registered from their places and transact for the required product.

## **2.3 Objectives**

- E-commerce functionality: One of the primary objectives of a bookstore website is to facilitate online book sales. Users should be able to browse through various

categories, view book details, add books to a shopping cart.

- User-friendly interface: The website should provide a user-friendly interface that makes it easy for visitors to navigate and find the books they are interested in. The design should be visually appealing and intuitive, ensuring a positive user experience.
- Book catalog and search functionality: The website should have a comprehensive book catalog, organized into different categories and genres. Users should be able to search for books using keywords, authors, titles, or other relevant criteria, making it easier for them to find specific books.
- User accounts and personalization: The website can provide user account functionality, allowing users to create profiles, save their favorite books, maintain a wishlist, track their order history, and receive personalized recommendations based on their browsing and purchasing behavior.

## 2.4 Scope of the project

- Home Page: The website can have a visually appealing home page that showcases featured books and categories. It include a search bar for users to search for books.
- Book Listings: Users should be able to browse through different categories or genres of books. Each book can be displayed with its title, author, cover image, and a brief description. Pagination or infinite scrolling can be implemented to handle large book collections.



- User Authentication: Implement user registration and login functionality to enable features like adding books to cart and writing reviews. JSON can be used to store user data such as usernames, passwords (preferably encrypted), and user preferences.
- Shopping Cart: Users should be able to add books to their shopping cart and proceed to checkout. The cart should display the selected items, their quantities, and the total price. Users can remove items, update quantities, and apply discount codes if applicable.
- Search Functionality: Implement a search feature that allows users to search for books based on their title, author, or keywords. Filtering and sorting options can enhance the search experience.

# **CHAPTER 3 : Technology and Literature**

## **Review**

### **3.1 Technology Review :**

- React.js: React.js is a popular JavaScript library for building user interfaces. It allows you to create reusable UI components, manage state efficiently, and update the UI efficiently using a virtual DOM. React.js is widely used for building single-page applications and provides excellent performance.
- HTML and CSS: HTML is the standard markup language for creating the structure of web pages, while CSS is used for styling and layout. HTML provides the basic structure of the website, while CSS allows you to customize the appearance and design. Both HTML and CSS are essential for creating a visually appealing and well-structured website.
- JavaScript: JavaScript is a versatile programming language used for implementing dynamic functionality on web pages. It enables interactivity, data manipulation, and event handling. In the context of a bookstore website, JavaScript can be used for handling user interactions, managing data, and implementing various features like search functionality, shopping cart, and user authentication.
- JSON: JSON (JavaScript Object Notation) is a lightweight data-interchange format that is easy for humans to read and write and easy for machines to parse

and generate. It is often used for storing and exchanging structured data between a web server and a web application. In the context of a bookstore website, JSON can be used for storing book data, user profiles, and other relevant information.

- Material UI: Material UI is a popular React UI framework that provides a set of pre-designed, customizable UI components following the Material Design guidelines. It helps in creating a visually consistent and modern user interface. Material UI components can be used for building the navigation menu, forms, buttons, modals, and other UI elements in your bookstore website.

### **3.2 Literature Review :**

- React.js Documentation: The official React.js documentation is an invaluable resource for learning React.js concepts, understanding its core features, and exploring various APIs and best practices. It provides examples, tutorials, and guides to help you get started with React.js development.
- HTML and CSS Documentation: W3Schools ([www.w3schools.com](http://www.w3schools.com)) provides comprehensive tutorials and references for HTML and CSS. It covers the basics as well as advanced topics, making it a great resource for understanding the structure and styling of web pages.
- Material-UI Documentation: The official Material-UI documentation ([material-ui.com](http://material-ui.com)) offers extensive information about the Material UI library. It provides documentation for all available components, along with usage examples, customization options, and theming guides.

- JavaScript Documentation: Mozilla Developer Network (MDN) JavaScript Guide (developer.mozilla.org) is a comprehensive resource that covers JavaScript concepts, syntax, and features. It also provides detailed explanations of various APIs and coding patterns.

### **3.3 Roles and Responsibilities :**

- My company role was as a web-developer intern for 15 days.
- My responsibilities are as follows:-
  - To design frontend modules for Login, Register, Book-listing, and View-Cart page
  - To design the backend APIs for login and registration of the user.
  - To provide functionalities for searching and sorting the books
  - To test APIs using Postman.
  - To design the backend APIs for CRUD operation on the website's various functionalities like cart, user, book, and category.
  - To provide various functionalities according to the type of user as 1 Buyers can only buy books. 2 Sellers can buy and update the quantity and category of books and can add new books. 3Admin can create, update, and delete use.

## **CHAPTER 4 : Internship Work Schedule**

### **Daily Work-tasks Assigned**

<b>Date</b>	<b>Topics</b>
17 May 23	Download nodejs What is NPM? Create-react-app Running react project Basic intro to files and structure of react project
18 May 23	What is component and for what we should create component? Create react component Basics of react router dom
19 May 23	Where we can write HTML, CSS & JS. Where we should place images What is material design Intro to material UI Implementing Basic components of material UI
22 May 23	Continue on Material UI Implementing advance material UI components (Includes basics of useState) Summarize 4 day journey
23 May 23	UseEffect Formik Registration Page Ui Form Validation with formik
24 May 23	Axios API call and toast Registartion Page API Integraion
25 May 23	Login Page UI Login API Integration
26 May 23	Header and footer Global book search

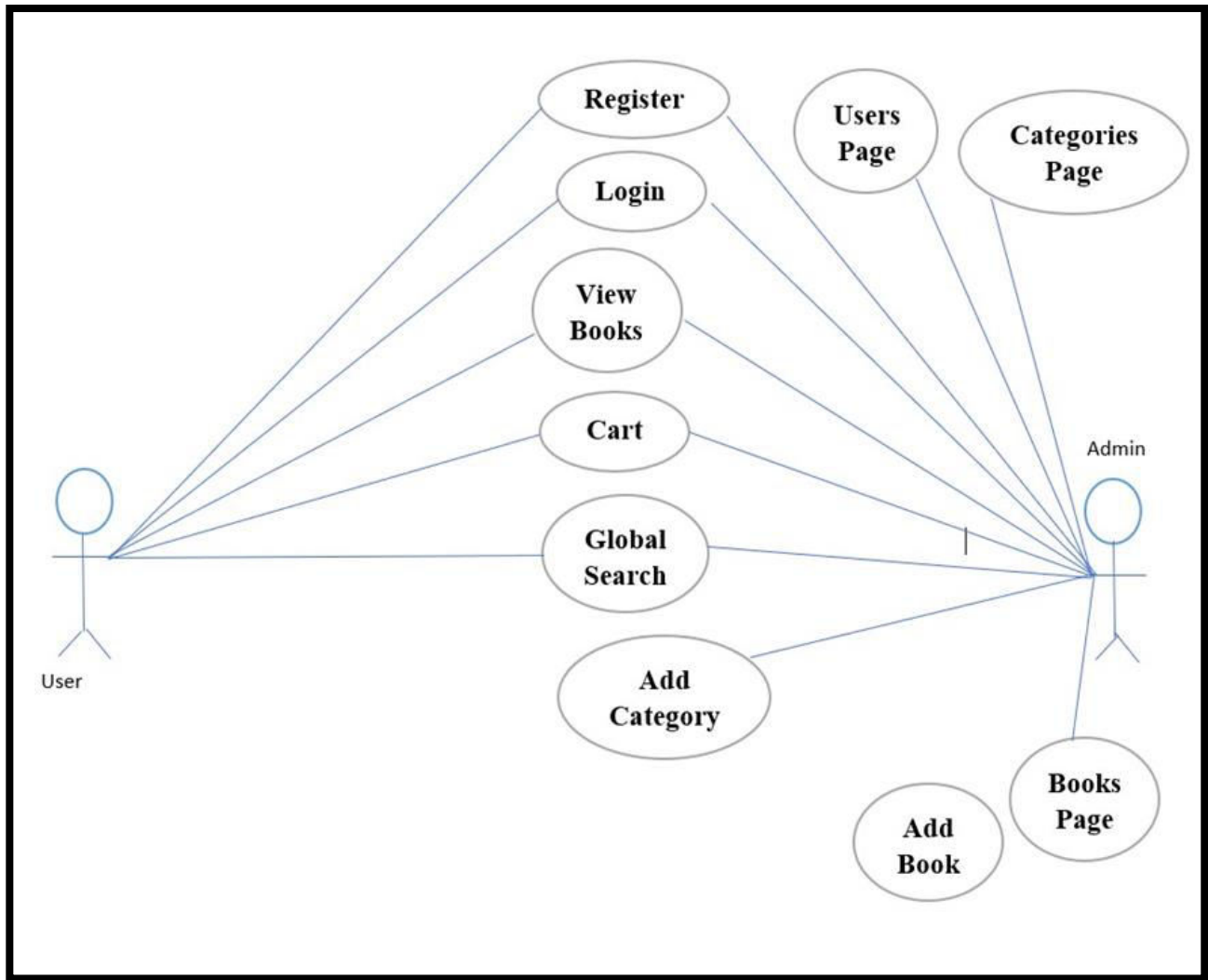
29 May 23	UseContext hook Private route and user redirection AuthContext using useContext
30 May 23	Book Listing Page Pagination, local search and sorting
31 May 23	Book list page(For admin and sellers) Add/Update/delete Books
1 Jun 23	User list page Add/Update/delete users
2 Jun 23	User profile Category list page Add/Update/delete a category
5 Jun 23	Cart Page Cart context Add/Update/delete Cart PlaceOrder
6 Jun 23	AWS Session Deployment

*Table 2: Daily work-task assigned*

# **CHAPTER 5 : Project Development Process**

## **5.1 Project Design**

- A good project plan and design makes any project a lot easier. Project design is an initial stage of the project.
- When I joined TatvaSoft's internship, my work was to build a website by making it fast, dynamic, and responsive and it is tough. I worked day and night to accomplish this task by using React JS, a cutting-edge technology. In this section, we give full concern towards the use-case diagram of my internship project and that will be described in the portion of 5.1.1.
- After completing that, we will give focus on the ER diagram and represent it in section 5.1. and Project functionalities in section 5.3.



*Fig 5.1: Use Case Diagram*



## 5.2 ER Diagram

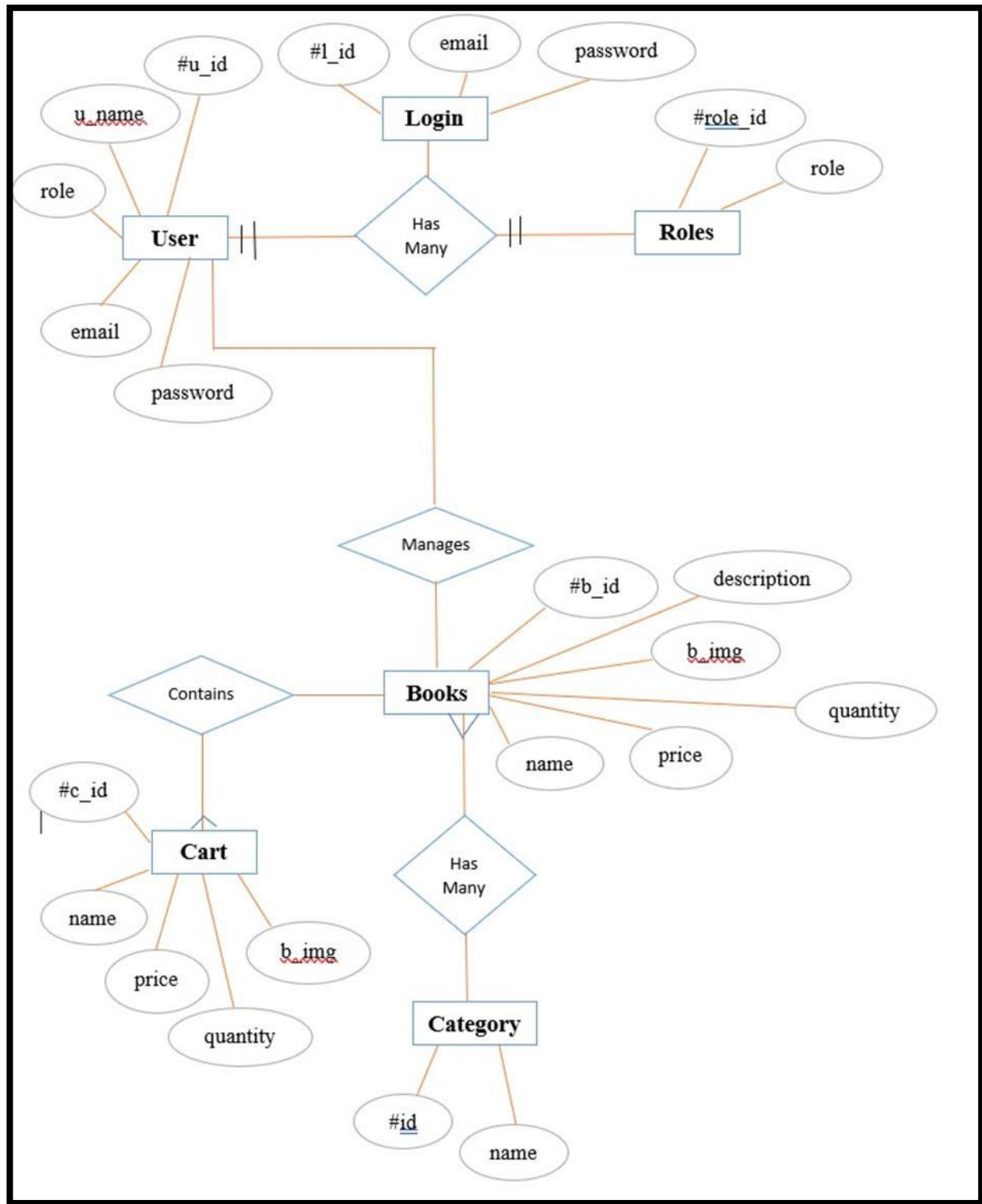


Fig 5.2: ER Diagram

## 5.3 Project Functionalities

- A user can register to the website.
- An existing user can log in.
- A user can view all products.
- A user can search for all books by applying filters like sorting from a-z & z-a.
- A user can add any book to the cart.
- A user can place an order.

# CHAPTER 6 : Project Implementation and Outcomes

## 6.1 Registration Page

The screenshot shows the 'Login or Create an Account' page. At the top, there's a header with the TatvaSoft logo, a search bar, and links for 'Login', 'Register', and 'Cart'. Below the header, the breadcrumb 'Home > Create an Account' is visible. The main heading is 'Login or Create an Account'. Underneath, there's a section for 'Personal Information' with a prompt: 'Please enter the following information to create your account:'. It includes fields for 'First Name \*' (filled with 'Dev'), 'Last Name \*' (filled with 'Kheradiya'), 'Email Address \*' (filled with 'devkhheradiya@gmail.com'), and a 'Roles' dropdown menu (set to 'seller'). Below this is the 'Login Information' section with 'Password \*' and 'Confirm Password \*' fields, both masked with dots. A red 'Register' button is at the bottom left of the form area.

*Fig 6.1: Registration Page*

## 6.2 Login Page

The screenshot shows the 'Login or Create an Account' page. The breadcrumb is 'Home > Login'. The main heading is 'Login or Create an Account'. It is divided into two columns. The left column, 'New Customer', states 'Registration is free and easy:' and lists benefits: 'Faster checkout', 'Save multiple shipping addresses', and 'View and track orders and more'. It has a red 'Create an Account' button. The right column, 'Registered Customers', says 'If you have an account with us, please log in:' and includes fields for 'Email Address \*' (filled with 'devkhheradiya@gmail.com') and 'Password \*' (masked with dots). It has a red 'Login' button. The footer contains the TatvaSoft logo and copyright text: '© 2023 TatvaSoft.com. All rights reserved.'

*Fig 6.2: Login Page*

## 6.3 Update Profile Page

The screenshot shows the 'Update Profile' page of the TatvaSoft application. The header includes the TatvaSoft logo, navigation links for 'Books' and 'Update Profile', a shopping cart icon with '1 Cart', and a 'LOG OUT' button. A search bar with the placeholder 'What are you looking for...' and a 'Search' button is present. The main content area is titled 'Update Profile' and contains a form with the following fields: 'First Name \*' (containing 'Dev'), 'Last Name \*' (containing 'Kheradiya'), 'Email \*' (containing 'devnkheradiya@gmail.com'), 'New Password', and 'Confirm Password'. At the bottom of the form are 'Save' and 'Cancel' buttons. The footer displays the TatvaSoft logo and the copyright notice '© 2023 Tatvasoft.com. All rights reserved.'

*Fig 6.3: Update Profile Page*

## 6.4 Book Page

The screenshot shows the 'Book Page' of the TatvaSoft application. The header is identical to the previous page. Below the search bar, there is a 'Search...' input field and an 'Add' button. The main content is a table listing books with columns for 'Book Name', 'Price', and 'Category'. Each row includes 'Edit' and 'Delete' buttons. The table data is as follows:

Book Name	Price	Category		
JavaScript courses 1	7080	Places	Edit	Delete
flower	5900	History	Edit	Delete
Rich Dad Poor Dadd	180	Biography	Edit	Delete
Bhagvad Geeta	500	History	Edit	Delete
Ashneer on start-ups	500	Good Habits	Edit	Delete
mahabharat	500	History	Edit	Delete
Har Har Mahadev	2000	Historical Fiction	Edit	Delete
motivation	507	Self improvement	Edit	Delete
motivation by guru	300	Self improvement	Edit	Delete

*Fig 6.4: Book Page*

## 6.5 Book Listing

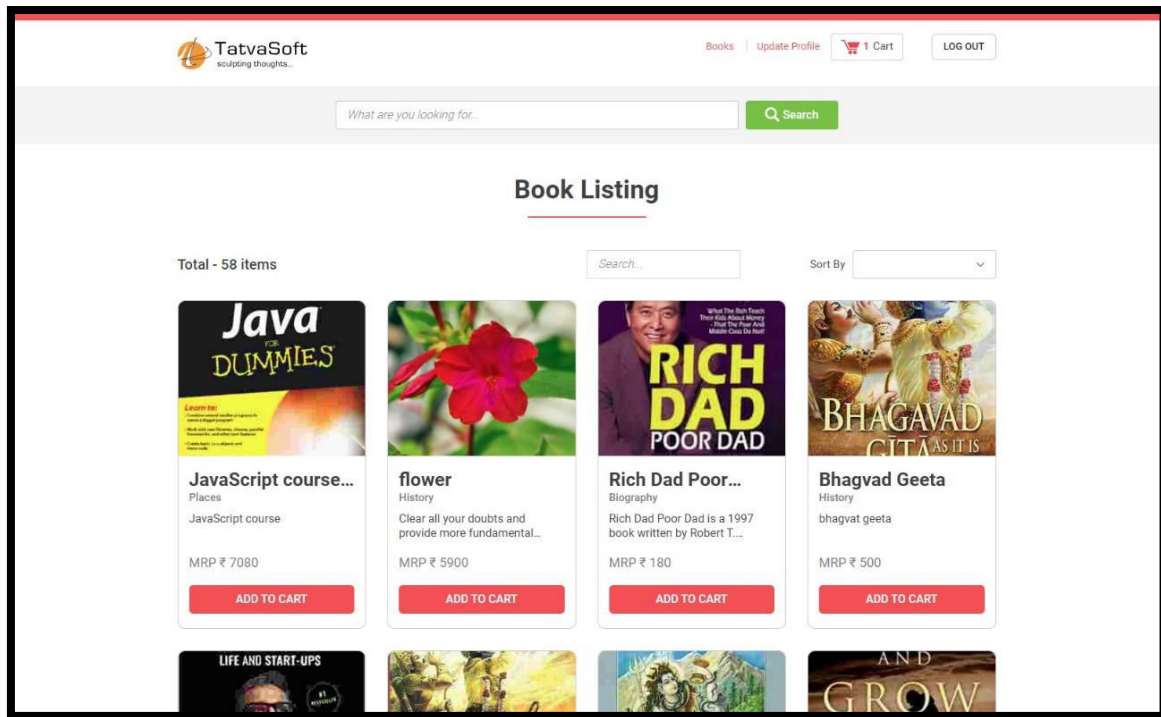


Fig 6.5: Book Listing Page

## 6.6 Cart Page

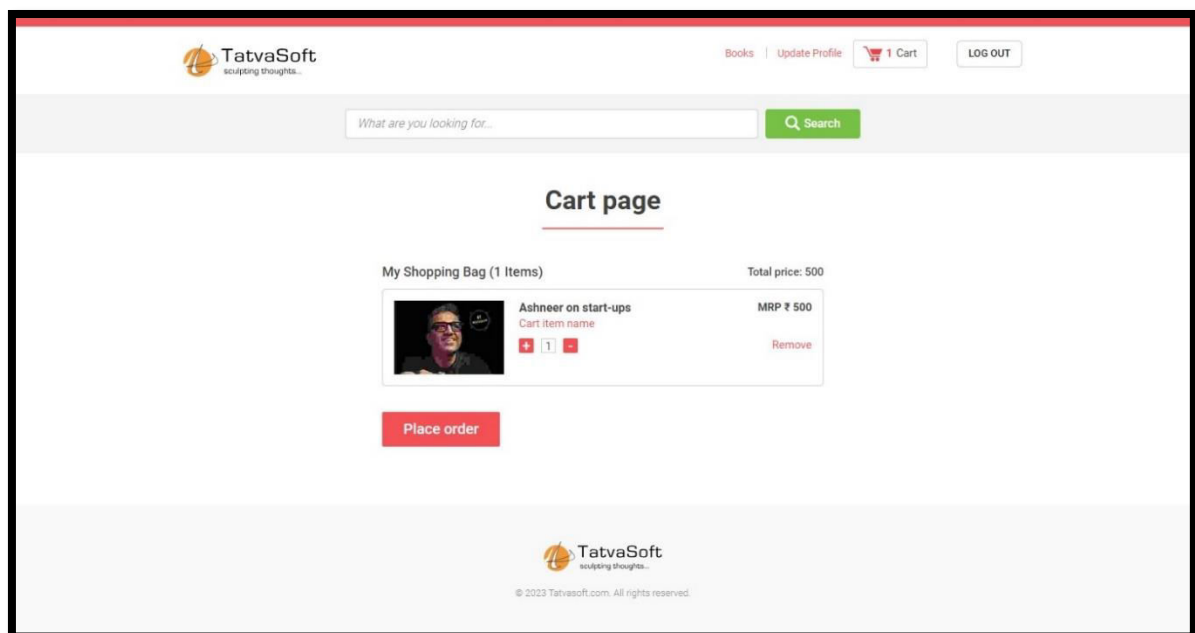
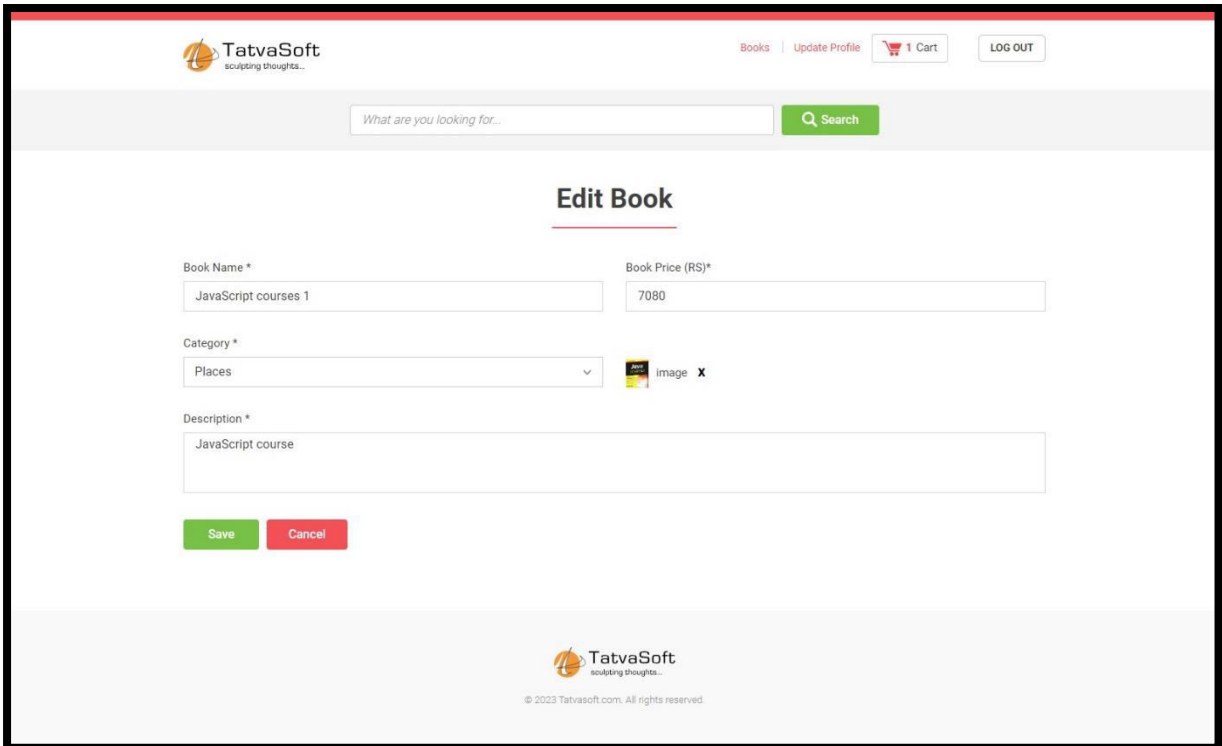


Fig 6.6: Cart Page

## 6.7 Edit Book Page



The screenshot displays the 'Edit Book' page of the TatvaSoft website. The header features the TatvaSoft logo, navigation links for 'Books', 'Update Profile', and a shopping cart with '1 Cart' items, and a 'LOG OUT' button. A search bar with the placeholder 'What are you looking for...' and a green 'Search' button is positioned below the header. The main content area is titled 'Edit Book' and contains several form fields: 'Book Name \*' with the value 'JavaScript courses 1', 'Book Price (RS)\*' with the value '7080', 'Category \*' with a dropdown menu showing 'Places', and 'Description \*' with the value 'JavaScript course'. An image upload section shows a small book icon, the text 'image', and a close button 'x'. At the bottom of the form are two buttons: a green 'Save' button and a red 'Cancel' button. The footer includes the TatvaSoft logo and the copyright notice '© 2023 Tatvasoft.com. All rights reserved.'

*Fig 6.7: Edit Book Page*

# **CHAPTER 7 : Conclusion and Future Scope**

## **7.1 Overall Analysis of Internship / Project Viabilities**

Technical-experience of internship :-

- How to identify the problems and find the solution of problems
- Understand the different type of error and find a different way to handle the error.
- Learn how the APIs work in backend and how the integrate backend, frontend and database with each other
- Learn industries code standard and practice.

## **7.2 Internship Progress Review meeting with Industry Guide / Mentor / External Guide can be conducted using digital platform(Google meet)**

After completion of daily task given by our mentor. They check our work through google-meet there we have to share the screen online to mentor then they review our work and give suggestion for improve the project.

## **7.3 Summary**

The system was design in such a way that future modification can be done easily. The following conclusions can be deduced from the development of the project:

- Automation of the entire system improves the efficiency.
- It provides a friendly graphical user interface which probes to be better when compared to the existing system.

- It gives appropriate access to the authorised users depending on their permissions.
- It effectively overcomes the delay in communication.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The system has adequate scope for modification in future if it is necessary.

## **7.4 Future Scope**

- The development of this project surely prompts many new areas of investigations.
- This project has wide scope to implement it in any ecommerce websites.
- This project covers all functionalities related to Book Selling. Hence it can be implemented anywhere else after minute in a click.
- The sharing facility will be available only to the logged in users.
- We are also planning to provide the user with the facility to define different themes of the apps and provide online chat system.



## **References**

- React.js Official Documentation: The official React.js documentation is an excellent starting point to understand the core concepts, API references, and best practices. It provides a comprehensive guide, tutorials, and examples. Website: <https://reactjs.org/>
- React Tutorial by React.js Team: This official tutorial by the React.js team is a hands-on guide to building a React application from scratch. It covers the fundamentals of React.js and introduces key concepts step by step. Tutorial: <https://reactjs.org/tutorial/tutorial.html>
- Formik:  
<https://www.youtube.com/watch?v=a94FOvaBomQ&list=PLC3y8rFHvwiPmFbtzE WjESkqBVDbdgGu>
- Material-UI Official Documentation: The official Material-UI documentation is a comprehensive resource that covers all aspects of using Material-UI. It provides detailed guides, API references, examples, and customization options. Website: <https://mui.com/>
- Material-UI GitHub Repository: The Material-UI GitHub repository is an open-source project that hosts the source code, examples, and issue tracking related to Material-UI. It's a valuable resource for exploring the library's implementation and finding community contributions. Repository: <https://github.com/mui/material-ui>