

# Tribhuvan University Faculty of Humanities and Social Science

#### AN INTERNSHIP REPORT

ON

**FeverCollection (E-commerce site)** 

AS

Web Developer

AT

Namche Web Pvt. Ltd.

# **Submitted To**

**Himalaya College of Engineering** 

Chyasal, Lalitpur

In partial fulfillment of the requirements for the Bachelors in Computer Application

#### **Submitted By**

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Under the Supervision of

Er. Himal Chand Thapa

April, 2025





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#### **EXPERIENCE CERTIFICATE**

#### To Whom It May Concern

This is to certify that Mr. Prashant Adhikari worked with us as a UI/UX Designer and Web Developer as an intern from January 08, 2025 to April 10, 2025.

During his time with us, he contributed to several web and design projects, showcasing creativity, technical skills, and a strong understanding of user-centric design. His performance was professional, reliable, and impactful.

We appreciate his contribution and wish him success in his future endeavors.

Sincerely,

Rajkumar Timilsina

Chief Executive Officer(

Namche Web Pva



# Tribhuvan University Faculty of Humanities and Social Science Himalaya College of Engineering

# **Supervisor's Recommendation**

I hereby recommend that this report has been prepared under my supervision by Mr. Prashant Adhikari in partial fulfillment of the requirements for the degree of Bachelor of Computer Application be processed for evaluation.

.....

Er. Nawaraj Singh Thakuri

**Supervisor** 

Himalaya College of Engineering

Chaysal, Lalitpur, Nepal



# Tribhuvan University Facility of Humanities and Social Science Himalaya College of Engineering

#### LETTER OF APPROVAL

The undersigned certify that they have read and recommended to Department of Humanities And Social Science for acceptance, an internship report submitted by Mr. Prashant Adhikari in partial fulfillment for the degree of Bachelor in Computer Application.

Supervisor Er. Nawaraj Singh Thakuri Faculty Member Himalaya College of Engineering Chyasal, Lalitpur, Nepal	Coordinator Er. Himal Chand Thapa Head of Department Himalaya College of Engineering Chyasal, Lalitpur, Nepal
Internal Examiner	External Examiner

#### ACKNOWLEDGEMENT

I would like to express my deepest gratitude to my internship supervisor at Namche Web Pvt. Ltd. Mr. Ammar Singh Karki, for giving me the opportunity to complete my internship at such a dynamic and inspiring IT company. His constant guidance, encouragement, and valuable feedback throughout the internship were instrumental in helping me grow both technically and professionally.

I am also thankful to the respected CEO of Namche Web Pvt. Ltd., Mr. Raj Timalsena, for providing me with the chance to be part of the Fevercollection e-commerce project. His vision and leadership helped me understand how real-world IT solutions are implemented to solve practical business challenges.

My sincere thanks go to my academic guide, Er. Himal Chand Thapa, for his continuous support, supervision, and insightful suggestions during the preparation of this internship report.

I would also like to extend my heartfelt appreciation to my classmates and friends who helped me directly or indirectly in completing my internship tasks and this report.

Finally, I would like to thank all the faculty members of Himalaya College of Engineering for their support, encouragement, and the knowledge they imparted throughout my academic journey. This internship has been a valuable experience, and I am truly grateful for the learning opportunities I received.

#### **ABSTRACT**

The report presents a reflection and journey of the three-month internship period at Namche Web Pvt. Ltd. highlighting the major works carried out from both academic and professional development perspectives. It emphasizes the value of the internship program and explores the lessons learned through hands-on project involvement and real-world challenges.

This report focuses on the experience gained as a Frontend Developer intern, specifically within a project titled Fevercollection a newly launched e-commerce platform developed using the MERN (MongoDB, Express.js, React.js, Node.js) stack. The tasks and responsibilities included designing and implementing user interfaces, integrating APIs, ensuring responsiveness, and collaborating with backend developers for a seamless user experience. The report discusses challenges faced during the project and the strategies adopted to resolve them. It also outlines the technical and soft skills developed during the internship period and how this experience has contributed to career readiness in the field of full-stack web development.

Keywords: E-commerce platform, Frontend development, Internship, MERN stack

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#### LIST OF ABBREVIATION

API Application Programming Interface

BCA Bachelor of Computer Application

CSS Cascading Style Sheets

CEO Chief Executive Officer

FaaS Frontend as a Service

HTML Hyper Text Markup Language

IT Information Technology

JWT Json Web Token

Ltd. Limited

MERN MongoDB Express React Node

Pvt. Private

PWA Progressive Web App

QA Quality Assurance

SSR Server-Side Rendering

UI User Interface

UX User Experience

#### INTRODUCTION

#### 1.1 Introduction

In the ever-evolving realm of digital commerce, where user experience and responsive design play a crucial role in consumer engagement, Fevercollection emerges as a modern e-commerce platform designed to digitize and streamline the manual processes of retail operations. Fevercollection is a newly launched online store developed by Namche Web Pvt. Ltd. a company known for delivering diverse IT solutions and digital transformation services to businesses. The primary objective of the project was to provide an intuitive, feature-rich online shopping experience for users while simplifying backend product and order management for administrators.

During my internship at Namche Web Pvt. Ltd. I had the opportunity to work as a Frontend Developer as part of the team responsible for building this platform using MERN (MongoDB, Express.js, React.js, Node.js) technology. This internship was also an essential component of fulfilling the partial requirements for my Bachelor of Computer Applications (BCA) degree. Through this practical experience, I gained hands-on exposure to real-world software development practices and sharpened my technical skills in modern web technologies.

One of the key features I worked on was the product display and listing page, where users could browse through various items seamlessly. I utilized React.js to build reusable and dynamic components, incorporating responsive layouts using CSS and Bootstrap, ensuring optimal usability across devices. I also contributed to developing the shopping cart functionality, allowing users to add, update, and remove products in real time.

To improve performance and user interaction, I implemented React hooks and state management techniques such as Redux to handle complex UI logic efficiently. Additionally, I collaborated with the backend team to fetch and display data using RESTful APIs built on Node.js and Express, ensuring smooth integration with the MongoDB database.

I also helped implement the user authentication and registration module, where I used JWT (JSON Web Tokens) for secure login and session handling. This allowed users to create accounts, sign in securely, and manage their profiles. Furthermore, I was involved in designing

the checkout page, contributing to the layout and logic that supports order placement, address input, and payment gateway integration.

Overall, my internship at Namche Web Pvt. Ltd. was a valuable learning experience that deepened my understanding of frontend development and full-stack collaboration within a live project. It helped bridge the gap between academic knowledge and practical application, equipping me with skills essential for a career in modern web development.

#### 1.2 Problem Statement

Before the development of the Fevercollection e-commerce platform, all business activities such as sales, inventory management, and customer handling were done manually. This led to frequent errors, delays in processing, and difficulty in tracking orders and stock levels. The lack of an online system also limited the business's reach and growth potential.

To address these issues, a detailed analysis of the existing manual process was carried out. The goal was to identify the core problems and design a system that could automate and streamline operations. This initial investigation helped define the system requirements and laid the foundation for building an efficient and user-friendly eCommerce solution.

#### 1.3 Objective

The main objective of the Fevercollection project was to digitize and streamline the manual retail operations of the business. By developing an e-commerce platform, the goal was to enhance customer experience, improve inventory and order management, and expand the business's online presence. The key objectives of the project are:

➤ To develop a responsive and user-friendly E-commerce website and enhances business efficiency through automation of manual tasks.

#### 1.4 Scope and Limitation

#### 1.4.1 Scope

The Fevercollection e-commerce site was developed to modernize and digitize the retail operations of a previously manual business. The platform allows users to browse products, create accounts, place orders, and make secure payments online. It also helps administrators

manage products, inventory, and orders efficiently. The system is responsive and accessible across various devices, offering both convenience and reach for customers and the business alike.

#### 1.4.2 Limitation

While the project achieved its primary goals, there were some limitations during development, including:

- Limited payment gateway options during the initial phase
- Basic admin dashboard with room for future feature expansion
- Security measures like two-factor authentication not yet implemented

These limitations can be addressed in future updates as the platform scales and evolves.

#### 1.5 Report Organization

This report is organized into Five chapters:

- Chapter One: "Introduction" This chapter introduces the problem statement, objectives and limitations of the project.
- Chapter Two: "Introduction to Organization" This chapter describes about the Organization details, Organization Hierarchy, Working Domains of Organization, and Intern department description.
- Chapter Three: "Background Study and Literature Review" This chapter describes about related project background study and literature.
- Chapter Four: "Internship Activities" This chapter clearly illustrate Roles and Responsibilities, Weekly log and Description of the project involved during internship and Tasks/Activities performed.
- Chapter Five: "Conclusion and Learning Outcomes" This is the final chapter that concludes the project and learning outcomes from internships.

#### INTRODUCTION TO ORGANIZATION

#### 2.1 Organization Details

Namche Web Pvt. Ltd. is a growing IT company that provides a wide range of technology-based solutions to businesses. Established with the aim of offering high-quality and efficient IT services, the company has been dedicated to delivering innovative solutions tailored to client needs. Namche Web Pvt. Ltd. mainly focuses on software development, web application development, marketing and IT consulting services. The company is driven by a team of passionate and skilled professionals who are committed to building reliable and scalable digital solutions.

As part of its services, Namche Web Pvt. Ltd. utilizes modern development methodologies and keeps up with the latest industry trends to ensure the delivery of competitive products. The company believes in a client-focused approach, working closely with clients to understand their challenges and objectives in order to provide effective and customized IT solutions.

One of the projects handled by the company is Fevercollection, a newly launched e-commerce platform. Prior to the development of the site, the business operations of Fevercollection were managed manually, which made the process time-consuming and less efficient. The aim of developing this platform was to automate the business, enhance the customer shopping experience, and manage products, orders, and inventory through a centralized system. The project was built using the MERN stack (MongoDB, Express.js, React.js, and Node.js), offering a responsive and dynamic frontend with robust backend functionality. Through this digital transformation, Fevercollection has been able to reach a broader audience and operate more efficiently in the online marketplace.

#### 2.2 Organization Hierarchy

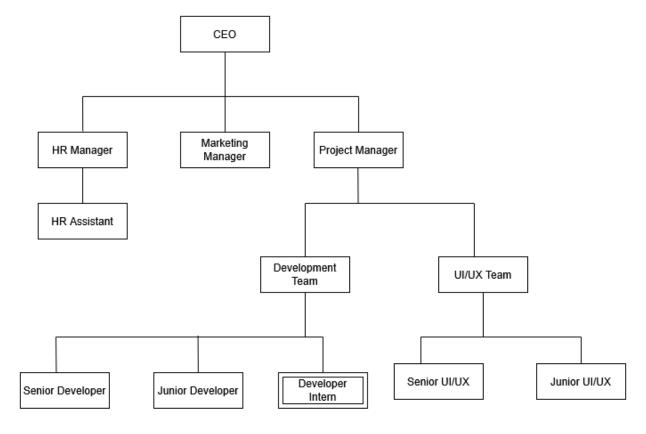


Figure 2.1: Organization Hierarchy of Namche Web Pvt. Ltd.

#### 2.3 Woking Domains of Organization

Namche Web Pvt. Ltd. is a full-service digital agency that specializes in software development and implementation.

 Software Development: Namche Web Pvt. Ltd. offer comprehensive software development services to help businesses proper management their paper works in organization. The team of experienced developers can design and develop custom software tailored to meet the specific needs of client's business.

### 2.4 Description of Intern Department

The intern department at Namche Web Pvt. Ltd. is comprised of enthusiastic and skilled professionals who are committed to nurturing and guiding aspiring developers. The department

focuses on delivering practical, hands-on training for interns primarily students and recent graduates seeking real-world experience in web development and modern technologies.

As a Frontend Developer intern, I had the opportunity to collaborate with experienced developers and receive mentorship throughout the project lifecycle. The department facilitated my involvement in the development of Fevercollection, a newly launched e-commerce platform that aimed to digitize a previously manual business operation.

During my internship, I was introduced to industry-standard tools and technologies used in MERN (MongoDB, Express.js, React.js, Node.js) stack development. The department emphasized the importance of team collaboration, agile methodologies, UI/UX best practices, and effective client communication.

The intern department fostered a creative and open environment, encouraging innovation and proactive learning. Regular code reviews, brainstorming sessions, and workshops were conducted to keep interns aligned with the company's goals and industry trends.

Overall, the intern department at Namche Web Pvt. Ltd. played a vital role in transforming theoretical knowledge into practical skills, offering a rewarding and growth-oriented learning experience.

#### BACKGROUND AND LITERATURE REVIEW

#### 3.1 Background Study

Information Technology (IT) involves the use of computers and telecommunication tools to store, process, and share data. It includes hardware, software, internet, networking, and related services. IT helps organizations improve communication, efficiency, and decision-making, making it a vital part of modern development.

In countries like Nepal, adopting IT based on local needs can boost growth and productivity. It plays a key role in transforming businesses and societies.

The software industry is a core part of IT, focused on developing and delivering software products and services. It includes:

- Programming services
- Enterprise software

Software companies operate under models like on-premises licensing and cloud-based solutions. The industry also provides support like consulting, documentation, and training, helping drive digital transformation across sectors.

#### 3.2 Literature Review

The frontend of HUBA Nepal's website reflects a modern, minimalist design that enhances user engagement and showcases the brand's identity as a progressive, fashion-forward label from Nepal. With a neutral color palette, bold typography, and high-resolution imagery, the site provides a clean and immersive visual experience aligned with its motto, "A Style For Every Story" (HUBA Nepal, n.d.). Its user interface is intuitive, featuring organized sections for collections, quick product previews, pricing, and stock status. Navigation is streamlined through a top menu linking to key pages like "About Us," "Wishlist," and "Login." The site is fully responsive, ensuring consistent performance across all devices. While the exact tech stack isn't disclosed, the design and performance suggest use of modern frontend frameworks like React or Vue.js, along with HTML5, CSS3, and JavaScript, possibly following a Single Page Application (SPA) architecture. Overall,

HUBA Nepal's frontend delivers a visually appealing and functional e-commerce experience that supports brand engagement and customer satisfaction.

In recent years, the shift towards composable architecture in e-commerce platforms has accelerated the demand for flexible, scalable, and headless frontend solutions. Alokai, formerly known as Vue Storefront, emerges as a prominent Frontend-as-a-Service (FaaS) platform designed to address this demand through modularity, framework agnosticism, and seamless integration with backend services. According to Alokai's documentation and platform descriptions (Alokai, n.d.), the system enables developers to decouple the frontend from monolithic platforms, offering a headless approach that enhances performance, scalability, and maintainability. Unlike traditional CMSdriven architectures, Alokai allows e-commerce companies to adopt a composable commerce model, integrating various services like CMS, search engines, and payment gateways through APIs. This modular architecture aligns with the Micro Frontend paradigm discussed by Lu, Zhang, and Lin (2020), where independent components can be developed, deployed, and scaled autonomously. Alokai's framework-agnostic nature further supports this approach by allowing the use of React, Vue, or other JavaScript frameworks depending on project needs. In terms of performance, Alokai employs Server-Side Rendering (SSR), progressive web app (PWA) capabilities, and advanced caching strategies to ensure optimal load times and SEO friendliness (Alokai, n.d.). These techniques are consistent with industry best practices for frontend optimization, as highlighted by Google's Web Vitals initiative. Moreover, Alokai has been widely adopted by modern e-commerce businesses for its developer-friendly tooling and pre-built integrations with platforms like Magento, BigCommerce, and Shopify, making it a viable option for companies aiming to reduce time-to-market. In conclusion, Alokai represents a significant evolution in frontend development for e-commerce. By promoting a composable, API-first approach, it enables faster innovation cycles and better scalability, addressing many limitations of legacy monolithic systems.

#### **INTERNSHIP ACTIVITIES**

#### 4.1 Roles and Responsibilities

Namche Web Pvt. Ltd. delivers IT-driven business solutions that align with the strategic goals of its clients. As a frontend development intern, I had the opportunity to work on real-world applications and gained hands-on experience in modern web technologies, particularly within the MERN (MongoDB, Express.js, React.js, Node.js) stack. During my internship, I was actively involved in the development of Fevercollection, an e-commerce platform designed to digitize the manual operations of the business. Some of the major responsibilities and tasks I performed during the internship include:

- Participated in the frontend development of the Fevercollection website using React.js to build interactive and responsive user interfaces.
- Collaborated with the backend team to integrate RESTful APIs and ensure smooth data flow between the frontend and backend.
- Assisted in designing reusable components and optimizing the UI for better performance and user experience.
- Contributed to debugging and fixing issues during development and testing phases to ensure functionality and responsiveness across different devices.
- Participated in team meetings and code reviews to discuss progress and maintain code quality standards.

#### 4.2 Weekly log

To summarize the work and activities completed during a specific week, a weekly log was maintained during the internship period from 8th Jan 2025 to 10th Apr 2025.

The work time of the company was from 10:00 am to 6:00 pm, and the working days were Monday to Friday.

Table 4.1: Weekly Log of Intern

WEEK (DD/MM/YYYY)	Task Completed	Skills Learned
1. (08/01/2025) To (15/01/2025)	<ul> <li>Introduce to Developer team</li> <li>Got Information about the company and project from the supervisor</li> <li>Create a personal G-mail, GitHub account for the company and added in the discussion group</li> </ul>	Research skills, understanding of the project
2. (16/01/2025) To (23/01/2025)	<ul> <li>Learned and research modules wise skill required for the project like how UI part of the project looks like, landing page, contact form, login, logout page etc.</li> <li>Discuss design of the website with supervisor</li> </ul>	Communication skills, understanding of the requirement of the client and react components
3. (24/01/2025) To (31/01/2025)	Create a wireframe for the project (E-commerce site)	Got skill about the figma tools, positioning of the components.
4. (01/02/2025) To (07/02/2025)	<ul> <li>Discuss with UI team, frontend team and supervisor and finalized the design of the project</li> <li>Designed forwarded to backend team</li> </ul>	Research to the similar product, soft skill, joining to different developer groups and discussion
5. (08/02/2025) To (15/02/2025)	<ul> <li>Create a Navbar, Homepage and footer in this week and try to make it responsive in mobile and big screen</li> <li>Add section in Homepage like latest arrival, best seller</li> </ul>	Learned about the responsiveness, CSS part and color selection
6. (16/02/2025) To (23/02/2025)	<ul> <li>Create a collection page and add features like filtering, filter for category (Kids, Men, Women) and according to the price high to low.</li> <li>Add features for search of the product</li> </ul>	Learned about the algorithm like searching, selection,

		State management, memo etc.
7. (24/02/2025) To (03/03/2025)	<ul> <li>Created a About page and contact page for the ecommerce site</li> <li>Contact page provides the location of the store and about page give description about the site</li> </ul>	Learned to integrate a google map for the location and make to make a form
8. (04/03/2025) To (11/03/2025)	<ul> <li>Created a login and register page, after validation successful redirect to homepage</li> <li>Created a cart page which collection, total amount, Number of items, checkout button and payment method section</li> <li>Created a simple form for the delivery information and place order button</li> </ul>	Learned about the validation process, Reuse of the components, and simple math and react-tostify
9. (12/03/2025) To (19/03/2025)	<ul> <li>Created an Admin page which includes components like Add items, List items and Orders and the Log out button</li> <li>Add items section includes image upload section, product description, category, subcategory, sizes, prices and the selection section of the best seller product and Add button</li> <li>List items section shows the number of items add by the admin</li> <li>Orders items show the product orders by the customer in which admin can changes the order status</li> <li>Created a logout button which kills the current session</li> </ul>	Learned about the component reusability, dropdown items, synchronization of the state of product
10. (20/03/2025) To (27/03/2025)	Every week attend the meeting to summarize the activities of Week and discuss     Prepared a documentary of the project	Soft skills, learned about the documentary of the code

	<ul> <li>Forwarded to the QA teams</li> <li>Some issues are submitted by QA team, resolved it</li> </ul>	
11. (28/03/2025) To (05/04/2025)	<ul> <li>Participated in code reviews to ensure code quality.</li> <li>Assisted in debugging and troubleshooting issues that arose during development.</li> <li>Follow of the project and UX part of the system and limitation of the system</li> <li>Share the experience about the internship period and handover the documentation and project to the deployment team</li> </ul>	Conduct testing like unit testing, system testing

#### 4.3 Description of the project(s) Involved During Internship

During the internship at Namche Web Pvt. Ltd. the project assigned was titled "Fevercollection", an e-commerce platform developed to streamline and digitize product selling activities that were previously handled manually. The main objective of this project was to create a user-friendly online shopping experience for customers, while also providing an efficient product and order management system for the business.

The project was built using the MERN stack (MongoDB, Express.js, React.js, and Node.js), ensuring a modern, scalable, and responsive application. Initially, the project involved gathering requirements and designing the user interface with components like homepage, product listings, cart system, authentication (login/register), and an admin panel. The system architecture included a frontend display layer (React.js) for user interaction, a backend logic layer (Node.js & Express.js) to manage routes and API requests, and a database layer (MongoDB) for storing product, order, and user data.

As the Frontend Developer, I was actively involved in designing responsive UI components, integrating frontend logic with backend APIs, managing state using React hooks, and implementing key features such as filtering, searching, product categorization, and cart

functionality. Additionally, an admin dashboard was created for item management, order tracking, and product updates, helping the business automate their processes.

Overall, working on the Fevercollection e-commerce site was a valuable learning experience that allowed me to apply my frontend development skills in a real-world project. It enhanced my understanding of full-stack web development, collaborative teamwork, and delivering a complete product from scratch using modern web technologies.

#### 4.4 Tasks/Activities Performed

- Developed key user-facing pages including Home, Navbar, Product Listing & Detail, Cart, Checkout, and Login/Register forms using **React.js** and **Tailwind CSS**.
- Implemented e-commerce features: product filtering, search functionality, and category-based navigation.
- Contributed to building the **Admin Panel** for managing products, tracking orders, and updating order statuses.
- Integrated frontend with **Express.js** + **MongoDB APIs** using fetch and axios, and handled form validation, error states, and loading states.
- Applied **React Hooks** (useState, useEffect, useMemo) for dynamic and reusable UI components and managed component state and lifecycle.
- Designed responsive UI layouts using **Tailwind CSS**, **Flexbox**, and **Grid** to ensure mobile-first compatibility.
- Participated in **Agile development**, attended weekly stand-ups, collaborated with team members and UI/UX designers, and resolved QA-reported bugs.
- Used **Git** and **GitHub** for version control and followed sprint-based task tracking through internal documentation.

#### CONCLUSION AND LEARNING OUTCOMES

#### 5.1 Conclusion

The internship at Namche Web Pvt. Ltd. was an enriching and transformative experience that allowed me to enhance both my technical capabilities and professional outlook. As a Frontend Developer, I worked on a live e-commerce platform named Fevercollection, gaining hands-on experience with the MERN stack (MongoDB, Express.js, React.js, and Node.js). The internship bridged the gap between academic knowledge and real-world application, reinforcing my understanding of frontend development practices in a team-based environment.

One of the most valuable aspects of this experience was the opportunity to collaborate on a project that had a real-world impact. Fevercollection was a newly launched platform, and my contributions were vital in transitioning its previously manual operations to a digital platform, thereby enhancing the efficiency and reach of the business.

Beyond technical skills, I also developed a strong appreciation for teamwork, problem-solving under deadlines, and effective communication within a development team. This internship played a key role in preparing me for future professional opportunities by giving me insight into project planning, development cycles, and practical implementation of design.

#### 5.2 Learning Outcomes

The internship at Namche Web Pvt. Ltd. served as a platform to gain real-time exposure to the software development industry. Below are the key learning outcomes from my experience:

- Enhanced Technical Proficiency
   I strengthened my command over frontend development technologies, particularly
   React.js, while also becoming familiar with backend integration through Node.js and
   Express.js, and database handling with MongoDB.
- Application of Academic Knowledge

I had the chance to apply concepts from my coursework like responsive design, component-based architecture, and RESTful APIs to actual project development, which helped reinforce my theoretical foundation.

#### • Real-world Project Experience

Working on the Fevercollection project taught me how to build scalable and user-friendly interfaces, maintain code quality, and collaborate in a version-controlled environment using Git.

#### • Improved Soft Skills

The experience improved my communication, time management, and adaptability, especially while participating in team meetings and receiving feedback from senior developers.

#### • Understanding of Agile Workflow

I gained insight into agile methodologies, including task management, sprint planning, and progress tracking, which are essential for working efficiently in a tech company.

#### Professional Work Ethics and Culture

This internship helped me understand workplace professionalism, accountability, and the importance of collaboration to meet shared goals.

# REFERENCES

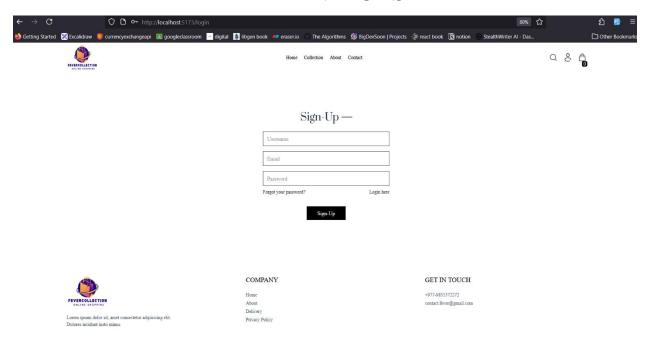
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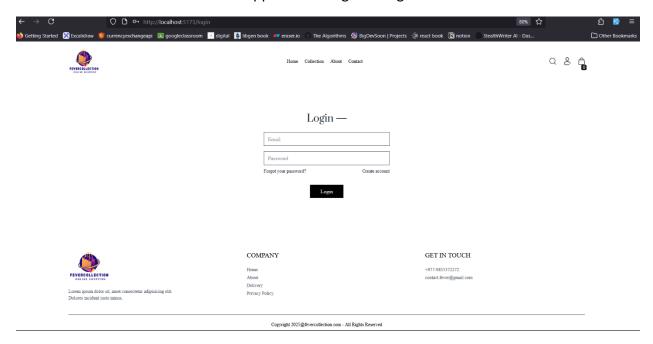
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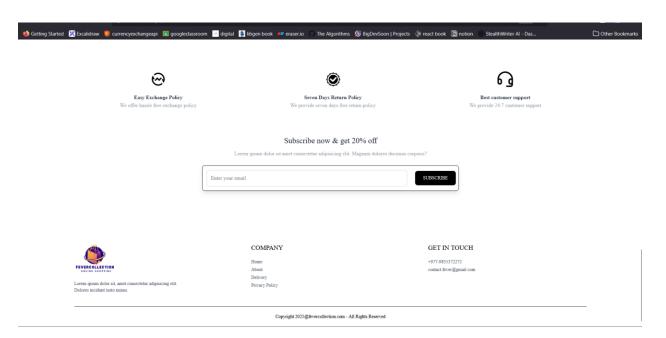
# **APPENDICES**



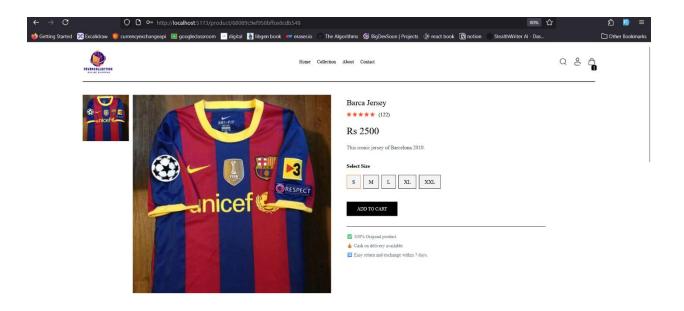
Appendix 1: Register Page



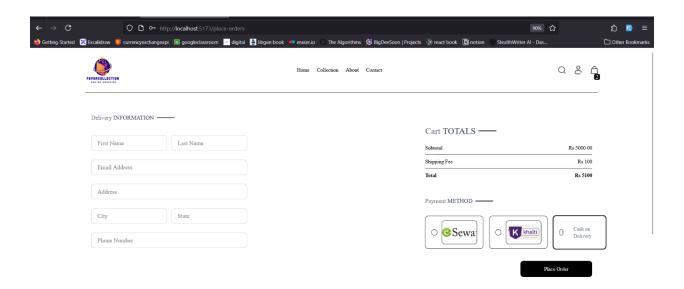
Appendix 2: Login Page



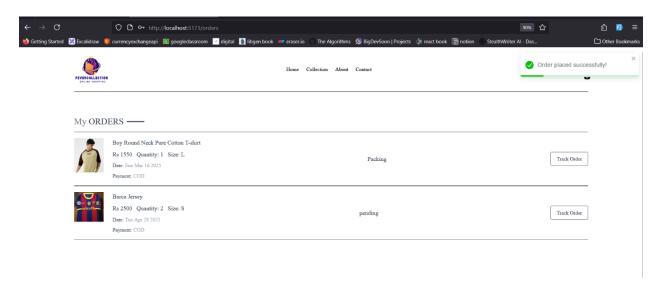
Appendix 3: Policy Part



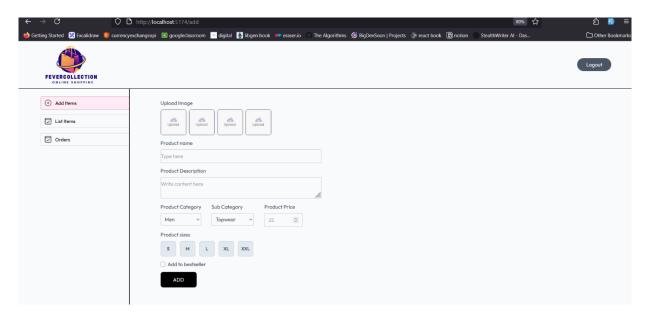
Appendix 4: Specific Collection



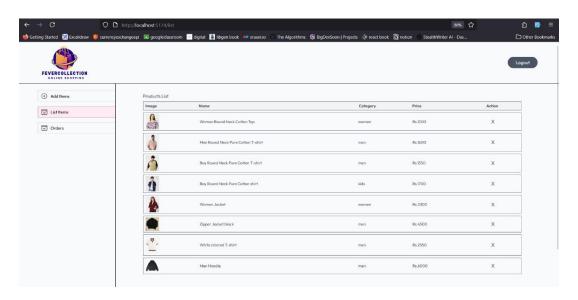
Appendix 5: Payment page



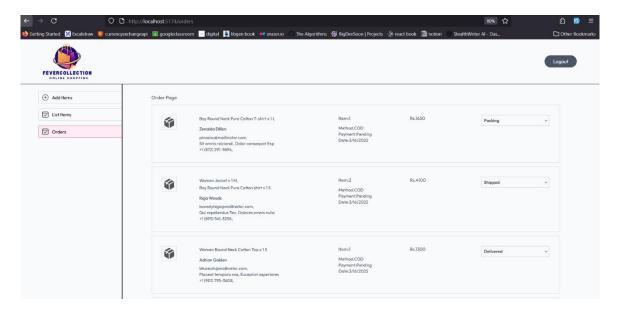
Appendix 6: Order Page



Appendix 7: Admin Add Item page



Appendix 8: Admin List Item page



Appendix 9: Admin Order page