PURBANCHAL UNIVERSITY

PURBANCHAL UNIVERSITY SCHOOL OF SCIENCE AND TECHNOLOGY – PUSAT, BIRATNAGAR

INTERNSHIP REPORT

Submitted to

Purbanchal University Faculty of Science and TechnologyBiratnagar, Nepal

Under the Supervision of

Rakesh Thakur

In partial fulfillment of the requirement for the Bachelors of

Computer Application

Submitted by

Amrit Rijal

Reg-No: 010-3-2-06582-2019

May, 2024

Certificate Page

NEED TECHNOSOFT PVT LTD

Reg no:210285/075/076

Date: 2080/09/10

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Amrit Rijal**, a dedicated student pursuing B.C.A at **Purbanchal University School of Science and Technology** has successfully completed his internship program with distinction. The program spanned from **Ashoj 7, 2080 to Paush 6, 2080, (12 Weeks)** during which he demonstrated exceptional skills and commitment.

In his role as a **Full Stack Developer Intern**, he showcased remarkable dedication and diligence. His technical prowess, innovative thinking, hardworking nature, and collaborative spirit greatly enhanced our team's capabilities.

We extend our heartfelt best wishes to Mr. Amrit Rijal for all his future pursuits.

Mr. Chhatraman Shrestha
Chief Technology Officer
Need Technosoft Pvt. Ltd.

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Supervisor's Recommendation

I hereby recommend this internship report prepared under my supervision by **Mr. Amrit Rijal** in partial fulfilment of the requirements for the degree of Bachelor of Computer Application for the final evaluation. I have thoroughly looked over the works he has done during his internship period. His work at **Purbanchal University School of Science and Technology** has satisfied the particulars mentioned in this report.

…….

Supervisor

Rakesh Thakur

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LETTER OF APPROVAL

This is to certify that the project prepared by **Mr. Amrit Rijal** entitled I**NTERNSHIP** in partial fulfillment of the requirements for the degree of Bachelor Computer Application hasbeen well studied. In our opinion it is satisfactory in the scope and quality as a project for the required degree.

…….. Mr. Rakesh Thakur **Supervisor** Lecture, BCA Purbanchal University School of Science and Technology Biratnagar, Morang	……... Mr. Naresh Kumar Shah **Director** Dept. Head, Department of BCA Purbanchal University School of Science and Technology Biratnagar, Morang
…… Chhatraman Shrestha **Mentor** Need Technosoft Biratnagar, Morang	…….. External Examiner Purbanchal University

ACKNOWLEDGEMENT

I would like to express my heartfelt gratitude to all those who have contributed to the success and completion of my internship. This experience would not have been as enriching and fulfilling without the support, guidance, and encouragement of numerous individuals and organizations.

I would like to express my gratitude to director of Need Technosoft, Mr. Chhatraman Shrestha who took confidence in me and provided me with the opportunity to work as an Intern at Need Technosoft. I am so thankful to the team and the guidance and I had amazing experience being the part of the team.

I convey my sincere gratitude to my Academic supervisor Mr. Rakesh Thakur, academic adviser of Purbanchal University School of Science and Technology. Without his kind direction and proper guidance this study would have been a little success. In every phase of the project his supervision and guidance shaped this report to complete perfection.

I would also like to thank our Program Director Mr. Rakesh Thakur for the role he played to make it possible for selected IT students of Purbanchal University School of Science and Technology to work as an intern for campus Department of BCA. Without him, I would miss such a life-changing experience and a golden chance to grow my knowledge. I appreciate all the technical support and motivation given by BCA program.

I would like to express my gratitude to Purbanchal University for providing me with a great opportunity of collecting experience by working as an intern and preparing this project report in according to its syllabus. I highly appreciate and honor the effort of Purbanchal University to develop required attitude, abilities, and practical skills in students which constitute a foundation for their future development.

I express my gratitude to Mr. Chhatraman Shrestha for the complete guidance and mentorship of the project. Finally, I would like to thank each and every one of my colleagues and the Need Technosoft family, who always encouraged and support me throughout the project.

ABSTRACT

This report presents a detailed account of my three-month internship as a Full Stack Developer at Need Technosoft in Biratnagar, Morang. The internship was undertaken as a requirement for the Bachelor of Computer Engineering program at Purbanchal University School of Science and Technology. The primary objectives of the internship were to gain practical experience in full stack development, apply theoretical knowledge in a real-world setting, and enhance problem-solving and technical skills.

During the internship, I was actively involved in designing and developing web applications, writing clean and efficient code, and implementing both front-end and back-end components using technologies such as React.js, Node.js, Laravel, and MySQL. I also participated in team meetings, code reviews, and collaborated with other developers to integrate third-party services and APIs.

The experience provided a comprehensive understanding of the software development lifecycle and agile methodologies. It significantly improved my technical skills in web development and version control, as well as my soft skills in communication, teamwork, and time management. Despite facing challenges such as adapting to new technologies and balancing multiple tasks, I successfully overcame them through persistent effort and support from my supervisor and team members.

The report documents my internship experience at the Department of Computer Application, Purbanchal University School of Science and Technology. Computer Application oversees the IT infrastructure and collaborates with IT-related faculties, programs, and departments within the campus. This report specifically details my two-month internship in the web development wing.

Within this report, you will find a systematic overview of the project we worked on, including a thorough discussion of the full stack development tasks and project description. The primary objective of this internship was to apply theoretical knowledge to real-world challenges. The report focuses on analyzing the development process, implementation, necessity, and utilization of the E-commerce from the perspective of a web developer.

Abbreviations

1. CSS: Cascading Style Sheet
2. BCA: Bachelor of Computer Application
3. HTML: Hypertext Markup Language
4. IT: Information Technology
5. UI: User Interface
6. UX: User Experience
7. VS Code: Visual Studio Code

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Chapter 1: Introduction

1.1 Introduction

This report reflects my three-month internship at Need Technosoft, where I focusedon developing an Online Book Delivery using front-end development technologies.In today's digital era, online stores are essential hubs for electronic product transactions, offering various e-commerce solutions for inventory management andcustomer relations.

Our project aimed to redefine online book shopping experience by prioritizingseamless transactions and easy access to product information. The website serves as a gateway to a wide range of electronic products, organized for user convenience.With a user-friendly interface and engaging product displays, customers can effortlessly browse, add items to their cart, and checkout.

Our Online Book Delivery is designed to provide users with real-time insights intoorders, revenue, and customer feedback. Utilizing advanced front-end techniques, we've crafted a platform that anticipates and meets the needs of modern consumers.Through intuitive navigation and a streamlined checkout process, users can easily complete their purchases. Secure payment gateways ensure smooth transactions, while robust order management tools facilitate prompt order fulfillment. In this intern we got the opportunity to work on

- Web Development
- Designing

1.2 Problem Statement

During the internship, we worked on improving the Online Book Delivery. While we focused on making product information easy to find, we didn't pay enough attention to suggesting personalized products or making the website fit each user's needs. This affected how much customers stayed interested and kept coming back.

Even though we tried to make the checkout process smoother, problems with payingand processing orders made many people leave without buying anything. This hurthow much money the store made. Also, without testing the website with real usersand getting their feedback, we had trouble making it work as well as it could. Doingthese things could make the store better and make customers happier.

1.3 Objective

- **Enhanced Accessibility:** By focusing on making product information easily accessible, the project aims to provide customers with a seamless browsing experience, allowing them to find what they need quickly and efficiently.
- **User Testing and Feedback:** Implementing comprehensive user testing and feedback loops is crucial for optimizing the user experience. By gathering insightsfrom real users and making iterative improvements based on their feedback, the project aims to enhance the store's functionality and overall user satisfaction.

1.4 Scope and Limitation

Scope:

- The e-commerce website aims to create a visually appealing website with a user-friendly interface to facilitate a seamless shopping experience for customers.
- Implementing advanced search and filtering functionalities will enable efficient product discovery, enhancing user satisfaction and engagement.
- Integration of secure payment gateways will ensure smooth and reliable transactions, instilling trust and confidence among customers.

Limitations:

- Customization options might be limited due to technical constraints or product restrictions.
- High traffic times may cause some products to be temporarily unavailable, leadingto delays in order processing.
- Just relying on customer input for product recommendations might not always givethe full picture, leading to potential biases or incomplete data.

Chapter 2: Introduction to Organization

2.1 Organization Details

Need Technosoft is a technology consulting firm that offers end-to-end solutions, from concept and strategy, to design, implementation and support, helping clients achieve their business goals. We offer a fixed-scope fixed-price project, a monthlyretainer or flexible time & materials option, as well as any combination of the three.Regardless, the basic principle of accountability is the same: we firmly believe thata vendor should deliver quality on time and pay the price if they don't, whether theyare paid by the hour or based on milestones.

2.2 Organization Hierarchy

Every organization has unique structure that depicts the flow of work within the company. Employee positions, as well as their functions and responsibilities, areclearly defined in organization hierarchy.

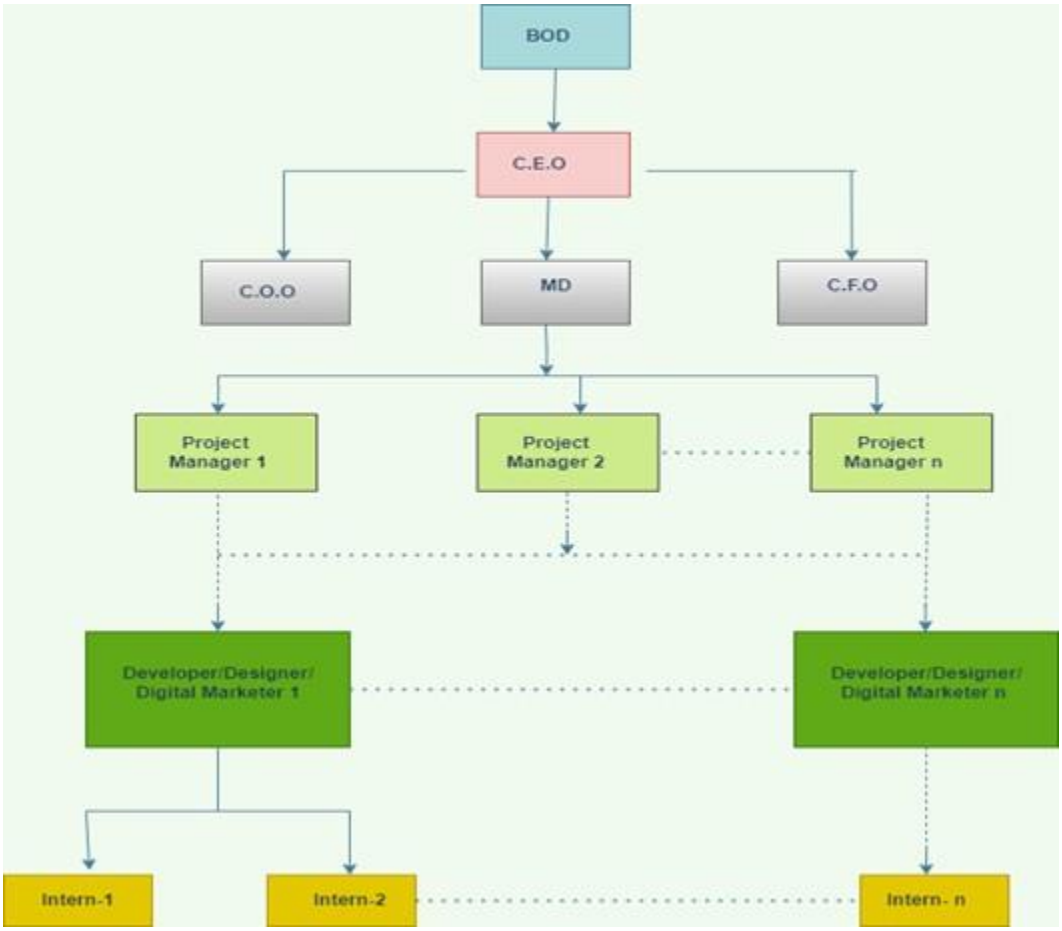


Figure 1: Need Technosoft Organization Hierarchy

2.3 Working Domains of Organization

Need Technosoft team works on wide technology fields such as Digital Marketing,Web Design, Data Analytics, and Business Automation. Need Technosoft, expertise in different technical fields, started with the aim to develop technology Sector in Nepal. This company's main focus is on providing quality services to its clients and ensuring that they receive value for their money.

2.4 Description of Intern Department/Unit

The intern department/unit at Youth It is responsible for providing internship opportunities to students who want to gain practical experience in software development. The department/unit is led by a senior developer who oversees the interns' work and provides guidance and mentorship throughout the internship. Main goal of the intern department is to provide students or recent graduates, with practical, hands-on experience in their field of study by placing them in various roles within the organization. Some common roles within an intern department/unit include: coordinators, manager, and program managers. Some common roles within an intern department or unit include:

Intern Coordinators: These individuals are responsible for recruiting and selecting interns for the program, as well as placing them in suitable roles within the company. They also manage the orientation and onboarding process for new interns.Intern Managers: These individuals are responsible for overseeing the day-to-day operations of the intern department or unit. They may also provide support and guidance to interns throughout the internship, and evaluate their performance on a regular basis.

Internship Program Managers: These individuals are responsible for overseeing theoverall internship program and ensuring that it aligns with the company's goals andobjectives. They also work closely with other departments within the company to identify internship opportunities.

Coordinators of internships: These individuals are responsible for coordinating thelogistics of the internship program, such as scheduling, tracking hours, and maintaining records of the interns' progress. They also work closely with the internmanagers to support the interns.

Chapter 3: Background Study and Literature Review

3.1 Background Study

The e-commerce project operates within the expansive domain of onlineretail, catering to customers' diverse needs for gadgets, devices, and accessories. Profound comprehension of customer experience management principles is imperative, as the project endeavors to create seamless digital storefronts and deliver exceptional service to elevate shopper satisfaction. Moreover, adeptness indigital marketing strategies is essential to effectively promote the project's offerings across various online platforms, ensuring maximum visibility and engagement.

Central concepts in the electronics e-commerce project encompass product listings, showcasing an extensive array of electronics offerings, and the checkout system, facilitating smooth and secure transactions. Implementing an intuitive search and filtering mechanism empowers users to swiftly discover desired products, enhancing user experience and driving sales. Establishing a compelling brand presence through elements like logo design and product presentation aids in distinguishing the project amidst fierce competition and cultivating a loyal customerbase.

In the electronics e-commerce project, familiarity with terms like "tech enthusiast,"denoting avid consumers of electronic gadgets, and "cutting-edge technology," signifying innovative advancements, is paramount. Expertise in product sourcing and quality assurance ensures the availability of genuine and high-quality electronics offerings, bolstering customer trust and loyalty. Leveraging concepts such as "flash sales" and "limited-time offers" can stimulate customer interest and drive purchases during strategic promotional periods, amplifying revenue andfostering customer engagement.

3.2 Literature Review

Drawing from the literature review, observations, and interviews conducted, it is pertinent to note that in the context of the e-commerce, our analysis of existing systems revealed several key insights. The research and development efforts primarily focused on understanding consumer behavior and preferences in the electronics retail sector. Additionally, consumer research playeda crucial role in the formulation of sustainability initiatives aimed at enhancing consumer engagement with the platform. Collaborating with external research

teams, we designed and implemented consumer surveys to gather valuable insights. Leveraging these findings, we developed and presented consumer-facing information on sustainable practices within the electronic commerce, utilizing various channels such as social media, events, and incentives to foster consumer engagement. In context of Nepal here are some similar electronics websites.“itti.com.np” which offers a wide range of electronic products, including smartphones, laptops, home appliances, and accessories. The website boasts a user-friendly interface, allowing customers to easily browse and purchase items of interest. Moreover, daraz.com provides detailed product descriptions, specifications, and customer reviews, facilitating informed purchasing decisions. Another prominent player in the Nepalese electronic commerce website is “hamrobazar.com.”This e-commerce platform features a diverse selection of electronic gadgets, ranging from televisions and cameras to gaming consoles and wearable tech. HamroPasal.com distinguishes itself by offering competitive pricing, regular discounts, and special deals on popular electronic products. Additionally, thewebsite prioritizes customer satisfaction by providing efficient order processing, secure payment options, and reliable delivery services across Nepal.

Furthermore, “Daraz.com.np” stands out as one of the largest online marketplaces in Nepal, encompassing a comprehensive electronics category. With a vast array ofproducts from renowned brands, Daraz.com.np caters to a diverse customer base seeking quality electronic items. The platform hosts regular sales events, promotional campaigns, and exclusive offers to entice customers, ensuring a dynamic and engaging shopping experience.

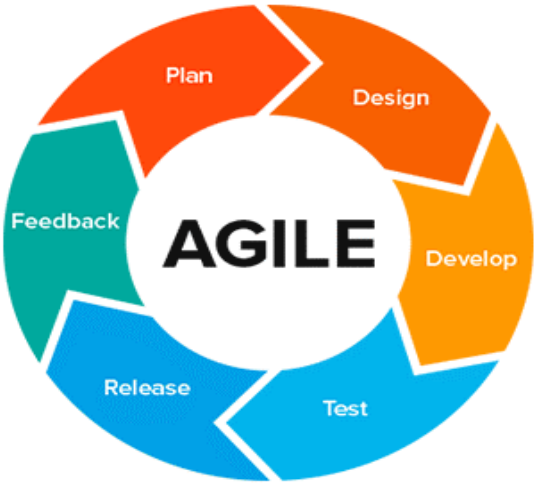
Lastly, “SastoDeal.com” emerges as a notable contender in the Nepalese electronics e-commerce landscape. Known for its budget-friendly pricing and discounted deals, SastoDeal.com appeals to cost-conscious consumers looking for affordable electronic gadgets and accessories. The website features a straightforward interface,enabling hassle-free navigation and seamless online shopping. Overall, these similar websites reflect the growing prominence of e-commerce in Nepal’s electronics industry, offering customers a convenient and accessible platform to fulfill their electronic needs.

CHAPTER 4: SYSTEM ANALYSIS AND DESIGN

4.1 Methodology

This project BooksMania will be developed using agile methodology. The agile development methodology is one of the simplest and effective processes to turn a vision for a business need into software solutions. Agile is a term used to describe software development approaches that employ continual planning, learning, improvement, team collaboration, evolutionary development, and early delivery. It encourages flexible responses to change. Agile methodology was appropriate for this project because it allowed us to adapt to the changing requirements. If there are defects or challenges, then changes can be made during production cycles to fix the issue. Furthermore, it allowed us to start the project with very limited planning and gather information and adopt the changes during the program development life cycle. [2]

4.2 System Requirement Analysis



The software requirements are descriptions of features and functionality of the target system. Requirements convey the expectations of users from the software product. The requirements can be obvious or hidden, known or unknown, expected, or unexpected from the client's point of view. So, it is important to make them clear both for the development team and the stakeholders. The known requirements of this system are divided into two categories (functional and non-functional) and are mentioned below:

4.2.1 Functional Requirements

- System should allow users to login and register their user account.
- System should be able to keep records of books on sale.
- System should allow users who are willing to buy those books an offer to the seller.
- Users should be able to get contact information of users who ordered books.
- Users shall be able to provide feedback.
- Payment can be done with only cash.

4.2.2 Non-Functional Requirements

- User Interface
- Responsiveness
- Availability
- Usability
- Security

4.2.3 Use Case Diagrams

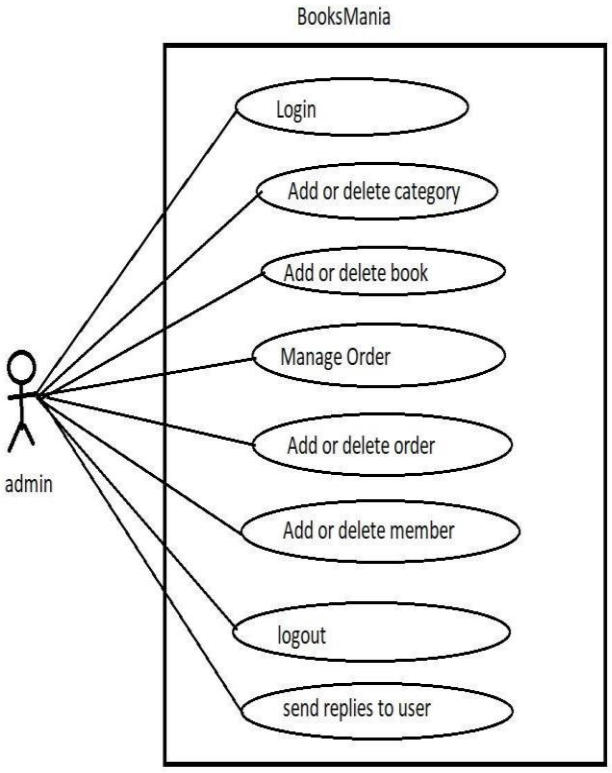


Figure 1: Use Case Diagram illustrating admin Related Activities

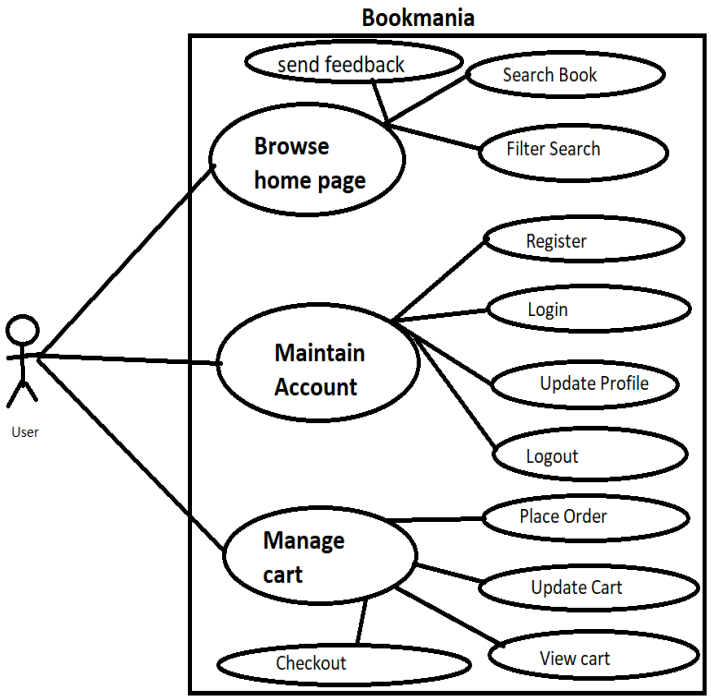


Figure 2: Use Case Diagram Illustrating User related activities

4.3 Feasibility Analysis

4.3.1 Technical Feasibility Study

- The UI of our project is very simple.
- User will require internet browser and internet to use it
- It will run on many existing web browsers with the latest versions and even in the smart phones.

Recommending the Hardware Parts.

- Monitor
- Hard drive
- 2GB RAM
- Pentium 3 Processor
- On board graphics card

Recommended Software:

- VS Code
- MySQL
- Apache [Xampp]

And Windows 11 is used as an Operating System as it is more reliable and faster as compared to the other operating system.

4.3.2 Operational Feasibility Study

This system is intended to be upgraded in the future, the system makes use of dynamic technologies that allows upgrades and updates quite easily. Maintenance of the project includes time-to-time optimization of the database, removing irrelevant posts or users and so on. Operating the project after deployment does not bring any known complications. The operation feasibility study conducted on the project studied the feasibility of the project for maintenance and operating after deployment.

4.3.3 Economic Feasibility Study

During the development of this system, I had to invest time, resources, and knowledge. Besides, licenses to the tools used to develop this system like IDE, Diagramming tools, research cost, etc. were also investment. Total lines of code in the system were expected to be 10550. The calculation of cost to this project based on line of codes written and other investments mentioned above shows that cost of production is around Rs. 15,000 the primary source of income of this increment is advertisements placed on the website. But the system can be configured in such a way that users will only be marked as active once they pay a certain prepaid amount. In the future, the users can also be charged on the time they make any post or make an offer.

4.4 Data Modeling (Er diagram)

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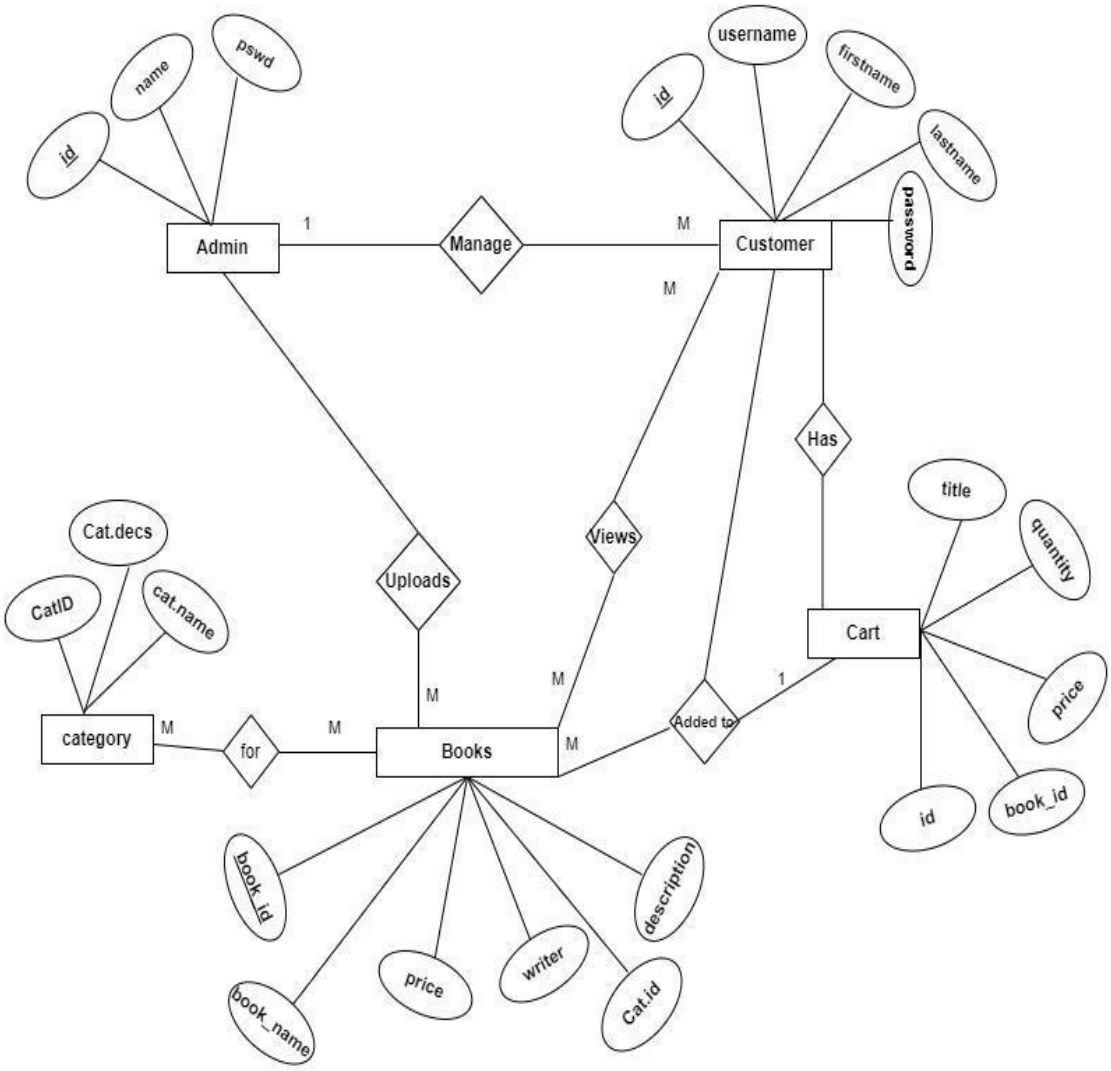


Figure 4: Er diagram

4.5 Process Modeling (DFD)

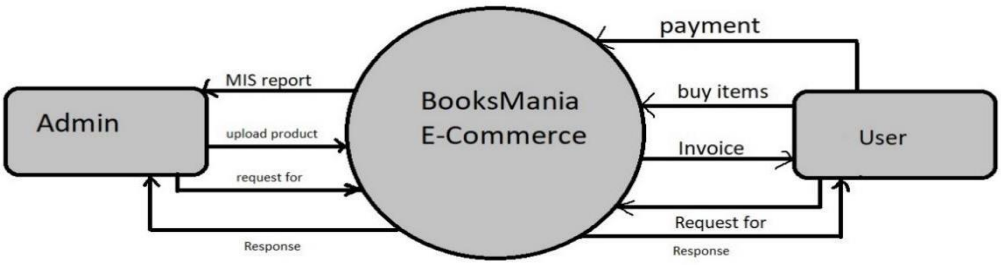


Figure 5: DFD Diagram level 0

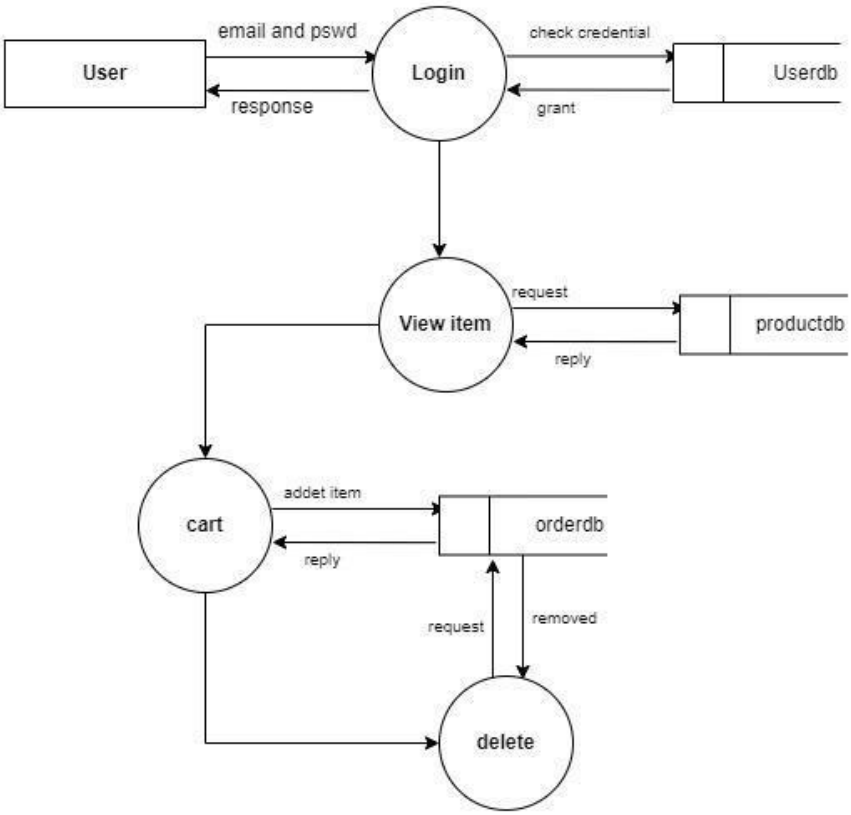


Figure 6: DFD level 1

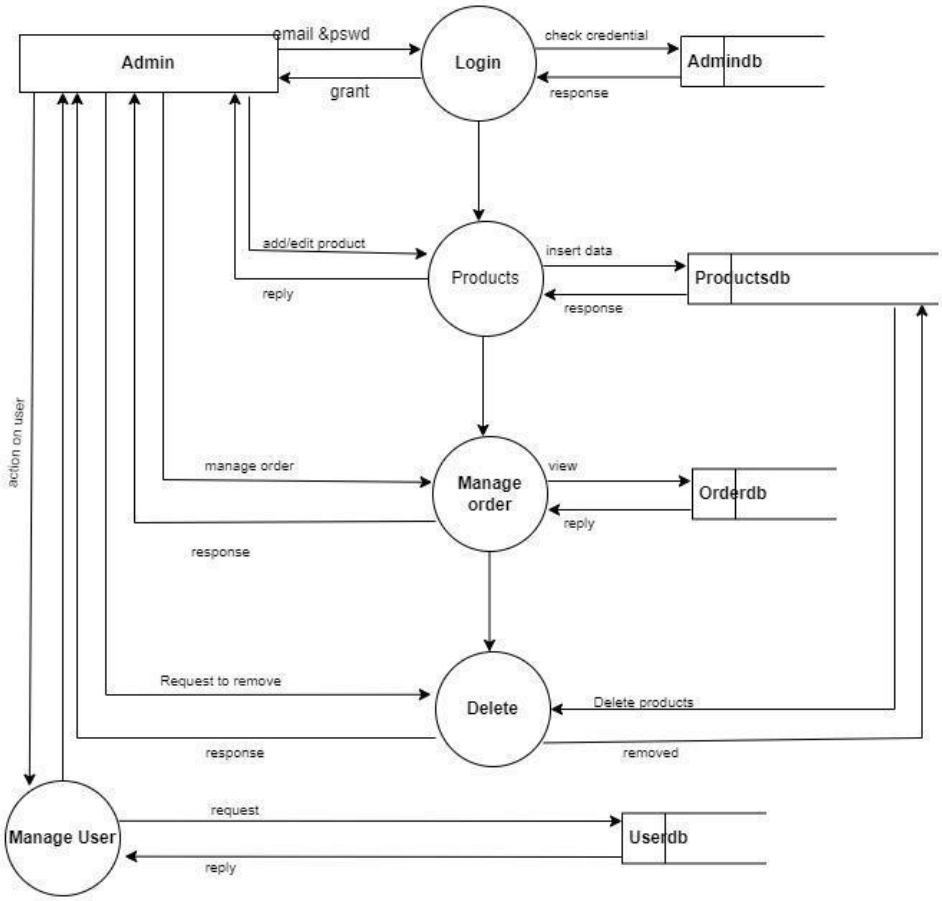


Figure 7: DFD level 2

4.6 Activity Diagrams

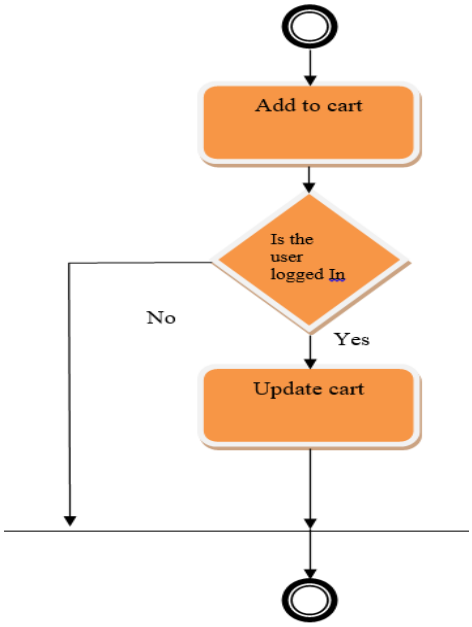


Figure 6: Activity Diagram: Cart

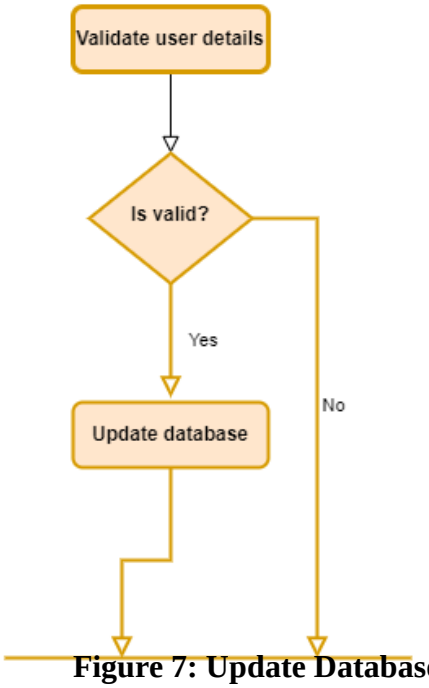
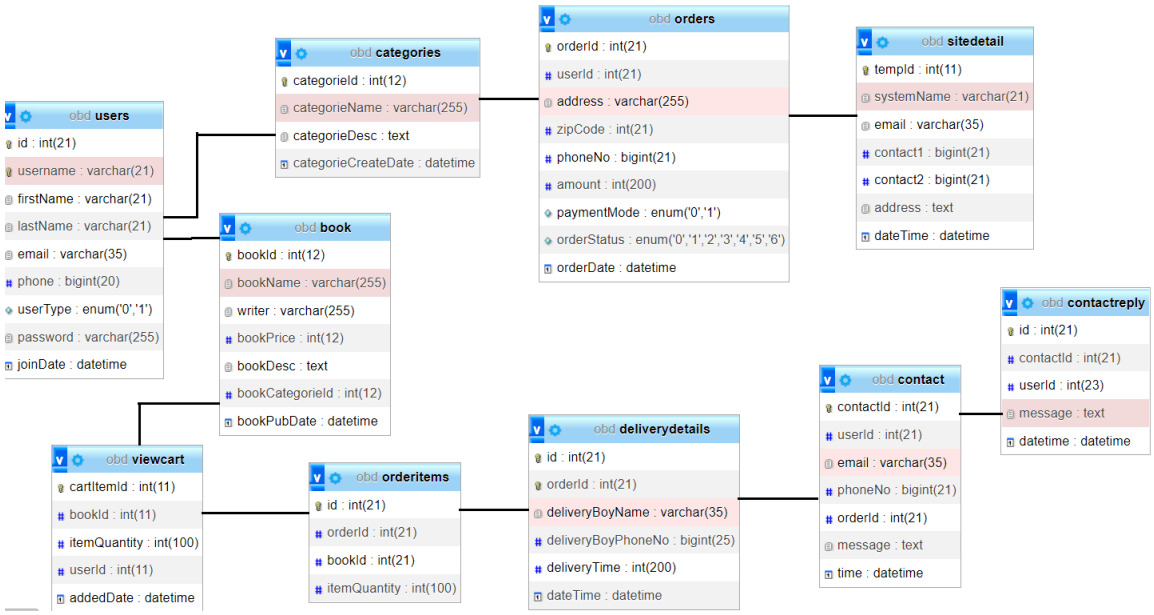


Figure 7: Update Database

4.7 Database Schema



4.8 Architectural Design

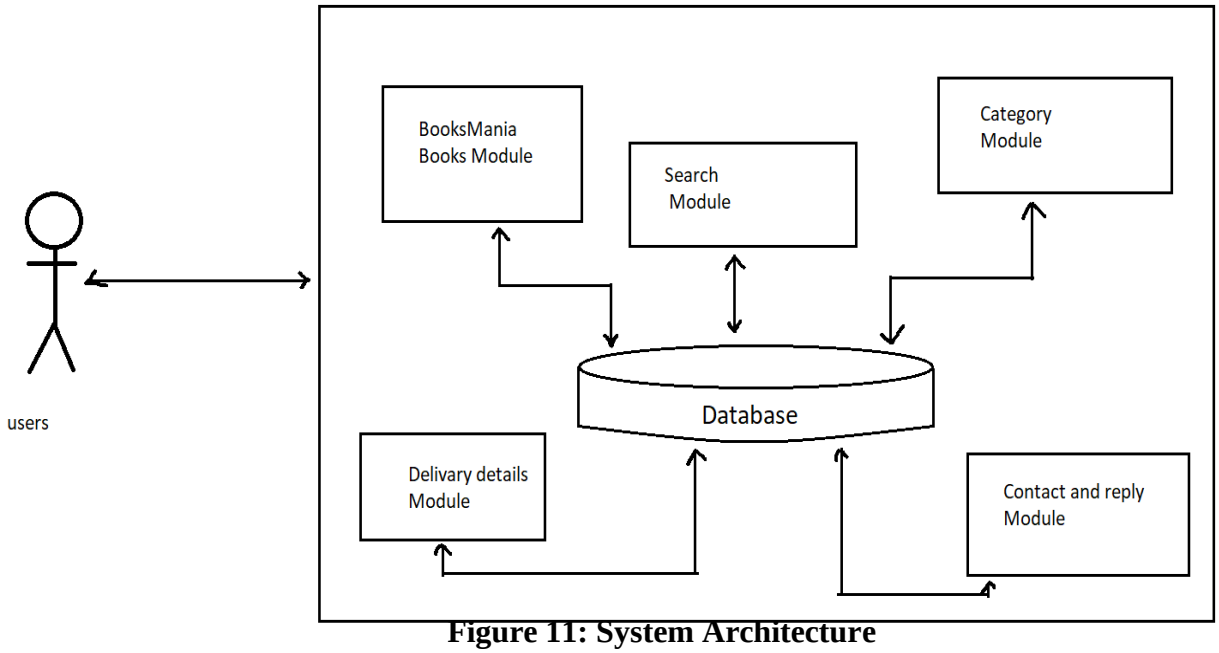


Figure 11: System Architecture

4.9 Interface Design (UI Interface/Interface Structure Diagrams)

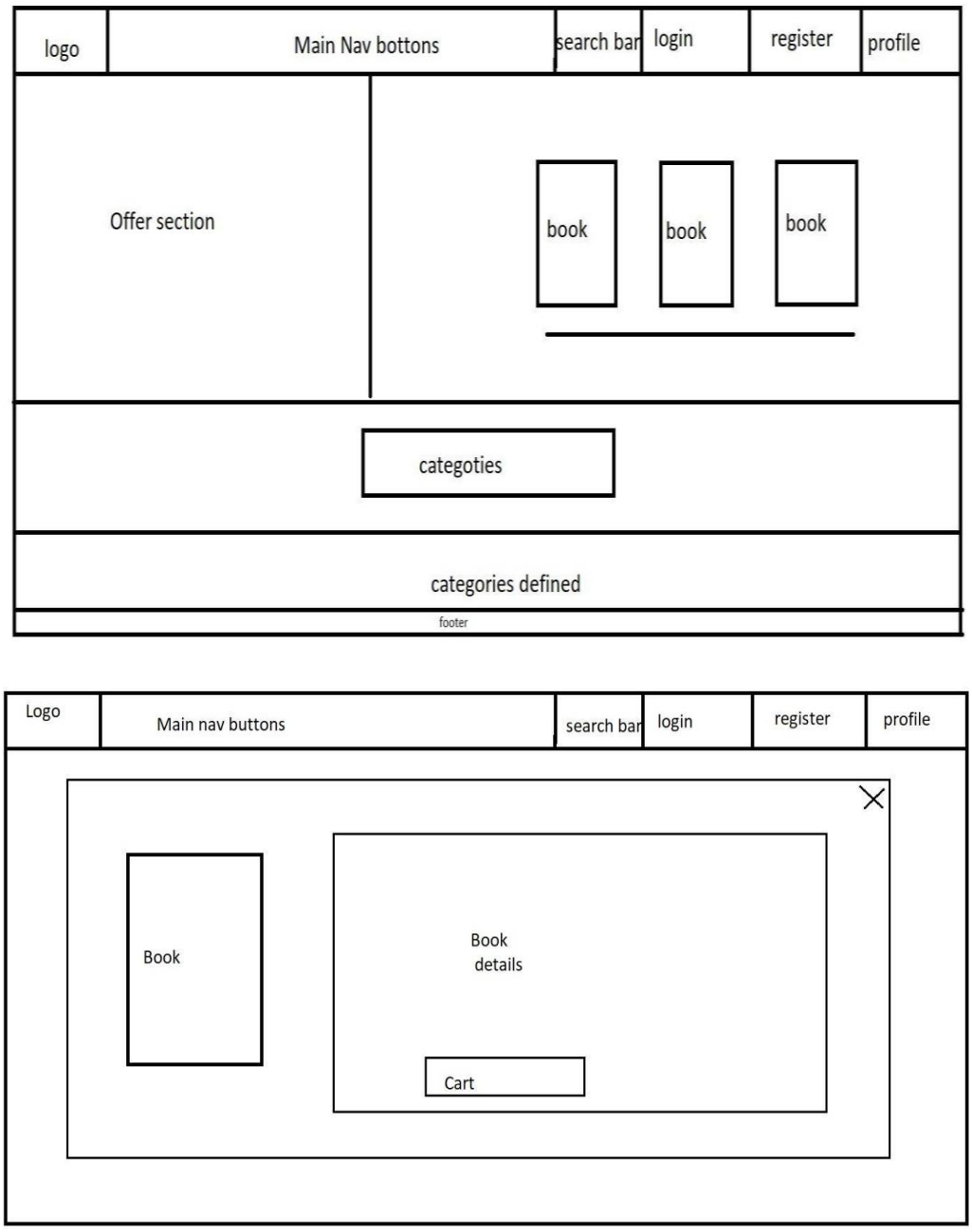


Figure 12: Interface of Home and Info Page

Chapter 5: Internship Activities

4.1 Roles and Responsibilities

My major responsibility in this project was to work as a web developer in Online Book Delivery project with a smaller role in basic UI design implementation and backend process.

4.2 Weekly Log

Weekly Internship Log

Name: Amrit Rijal

Project: BooksMania

Week No: 01 Date:2080/06/07

Responsibilities:

- Orientation and introduction to the company.
- Setting up development environment.
- Familiarization with ongoing projects.

Activities and Observations:

- Attended orientation sessions and team introductions.
- Installed necessary software and tools for development.
- Reviewed project documentation and source code.

Plan for Next Week:

- Attended orientation sessions and team introductions.
- Installed necessary software and tools for development.
- Reviewed project documentation and source code.

Table 1: Week No. 1 log

Week No: 02 Date:2080/06/14

Responsibilities:

- Participate in initial project planning meetings.
- Begin working on assigned tasks.
- Start learning project-specific technologies.

Activities and Observations:

- Participate in initial project planning meetings.
- Begin working on assigned tasks.
- Start learning project-specific technologies.

Plan for Next Week:

- Participate in initial project planning meetings.
- Begin working on assigned tasks.
- Start learning project-specific technologies.

Table 2: Week No. 2 log

Week No: 03 Date:2080/06/21

Responsibilities:

- Participate in initial project planning meetings.
- Begin working on assigned tasks.
- Start learning project-specific technologies.

Activities and Observations:

- Participate in initial project planning meetings.
- Begin working on assigned tasks.
- Start learning project-specific technologies.

Plan for Next Week:

- Integrate front-end and back-end components.
- Debug and troubleshoot initial integration issues.
- Collaborate with team members for code reviews.

Table 3: Week No. 3 log

Week No: 04 Date:2080/6/28

Responsibilities:

- Integrate front-end and back-end components.
- Debug and troubleshoot initial integration issues.
- Collaborate with team members for code reviews.

Activities and Observations:

- Integrate front-end and back-end components.
- Debug and troubleshoot initial integration issues.
- Collaborate with team members for code reviews.

Plan for Next Week:

Table 4: Week No. 4 log

Week No: 05 Date:2080/07/12

Responsibilities:

- Enhance front-end features based on feedback.
- Implement advanced back-end functionalities.
- Continue with regular code reviews.

Activities and Observations:

- Enhance front-end features based on feedback.
- Implement advanced back-end functionalities.
- Continue with regular code reviews.

Plan for Next Week:

- Work on integrating third-party APIs.
- Ensure secure handling of data and user authentication.
- Test and debug new features.

Table 5: Week No. 5 log

Week No: 06 Date:2080/07/19

Responsibilities:

- Work on integrating third-party APIs.
- Ensure secure handling of data and user authentication.
- Test and debug new features.

Activities and Observations:

- Integrated various third-party APIs into the application.
- Implemented secure user authentication mechanisms.
- Conducted thorough testing and debugging of new features.

Plan for Next Week:

- Optimize application performance.
- Improve database interactions and queries.
- Begin writing technical documentation.

Table 6: Week No. 6 log

Week No: 07 Date:2080/07/19

Responsibilities:

- Optimize application performance.
- Improve database interactions and queries.
- Begin writing technical documentation.

Activities and Observations:

- Optimize application performance.
- Improve database interactions and queries.
- Begin writing technical documentation.

Plan for Next Week:

- Optimize application performance.
- Improve database interactions and queries.
- Begin writing technical documentation.

Table 7: Week No. 7 log

Week No: 08 Date:2080/08/03

Responsibilities:

- Continue with performance optimization.
- Complete the technical documentation.
- Prepare for mid-term evaluation.

Activities and Observations:

- Further optimized various aspects of the application.
- Finalized the technical documentation.
- Prepared and presented progress for mid-term evaluation.

Plan for Next Week:

- Further optimized various aspects of the application.
- Finalized the technical documentation.
- Prepared and presented progress for mid-term evaluation.

Table 8: Week No. 8 log

Week No: 09 Date:2080/08/10

Responsibilities:

- Further optimized various aspects of the application.
- Finalized the technical documentation.
- Prepared and presented progress for mid-term evaluation.

Activities and Observations:

- Addressed and incorporated feedback from the mid-term evaluation.
- Initiated development of new modules for the project.
- Worked closely with other teams to ensure seamless integration.

Plan for Next Week:

- Addressed and incorporated feedback from the mid-term evaluation.
- Initiated development of new modules for the project.
- Worked closely with other teams to ensure seamless integration.

Table 9: Week No. 9 log

Week No: 10 Date:2080/08/17

Responsibilities:

- Addressed and incorporated feedback from the mid-term evaluation.
- Initiated development of new modules for the project.
- Worked closely with other teams to ensure seamless integration.

Activities and Observations:

- Addressed and incorporated feedback from the mid-term evaluation.
- Initiated development of new modules for the project.
- Worked closely with other teams to ensure seamless integration.

Plan for Next Week:

- Refine and polish the developed features.
- Fix any issues found during UAT.

Table 10: Week No. 10 log

Week No: 11 Date:2080/08/24

Responsibilities:

- Refine and polish the developed features.
- Fix any issues found during UAT.

Activities and Observations:

- Made refinements and improvements to the new features.
- Resolved issues identified during UAT.

Plan for Next Week:

- Deploy the application to the production environment.
- Monitor the application post-deployment.

Table 11: Week No. 11 log

Week No: 12 Date:2080/09/01

Responsibilities:

- Finalize documentation and hand over completed backend systems.
- Reflect on internship experience and set personal development goals.

Activities and Observations:

- Finalized all documentation and handed over completed backend systems.

Table 12: Week No. 12 log

4.3 Description of project involved during internship

Throughout my internship, I was primarily focused on refining the front-end development and basic UI designer aspects of an E-commerce. My responsibilities revolved around creating attractive pages and section which stand as a base to help the backend developers, also familiarizing myself with the project structure, and using Figma to make basic UI elements using these technologies, and experimenting with different design patterns suitable for the platform. I also collaborated with colleagues to integrate front-end assets seamlessly and ensured their optimal performance and responsiveness through testing and optimization. Additionally, I engaged in activities to deepen my understanding of user interface principles and explored advanced styling techniques to enhance the overall user experience. These experiences have not only strengthened my technical skills but also provided valuable insights into the intricacies of front-end development in an e-commerce context.

4.4 Tasks/Activities Performed

Throughout my eight-week internship, my primary role was centered around front-end development. Initially, I refreshed my skills in HTML, CSS, and JavaScript while getting acquainted with the project's structure. As the weeks progressed, I delved deeper into front-end frameworks like Bootstrap, aiming to enhance UI development for the platform.

During the subsequent weeks, I transitioned into the development phase, where myfocus shifted to implementing basic UI elements using HTML, CSS, and JavaScript. I experimented with different design patterns suitable for the E-commerce, striving to create a user-friendly and visually appealing interface.

As the project evolved, I continued refining UI components and exploring advancedstyling techniques to improve the overall user experience. I actively engaged in discussions with

the team, contributing to the division of tasks and ensuringeffective collaboration. Through thorough testing and feedback analysis, I addressed any issues or bugs identified, striving to deliver a polished and functionalfront-end interface for the E-commerce. Throughout the internship, my primary focus remained on front-end development, driving the implementation of essential UI features crucial for the project's success.

Chapter 5: Conclusion and Lesson Learnt

5.1 Conclusion

During my internship at Need Technosoft, I had the opportunity to contribute to the development of an Online Electronic Store using modern web technologies, particularly focusing on front-end development. Over the course of three months, our main task was to develop an Online Book Delivery utilizing modern web technologies. This immersive experience provided me with hands-on exposure to various aspects of frontend development and user interface design.

As a Web Developer, my primary responsibility involved crafting engaging user interfaces and enhancing the overall user experience of the Online Electronics Marketplace. This included tasks such as designing and implementing user interfacecomponents, optimizing website performance, and ensuring compatibility across different devices and browsers. Collaborating closely with the design team and other stakeholders, we aimed to create an intuitive and visually appealing online platform for users to explore and interact with electronic products seamlessly. Thisinternship journey has been instrumental in enhancing my skills and knowledge infrontend development, preparing me for future opportunities in web design and development.

5.2 Learning Outcome

During my internship, I gained several valuable skills and insights:

1. **Frontend Development Proficiency:** I enhanced my skills in frontend development, focusing on technologies like HTML, CSS, and JavaScript to create user interfaces for web applications.
2. **Problem-Solving Skills:** Tackling real-life challenges during the internship honedmy problem-solving abilities, demonstrating the practical application of IT concepts in resolving issues and optimizing system functionality.
3. **UI/UX Development:** I acquired proficiency in creating user-friendly interfaces and implementing essential features, such as secure login systems and dynamic menus, to enhance the usability of web applications.
4. **Teamwork and Interpersonal Skills:** The internship underscored the significanceof teamwork and effective communication in achieving project success, fostering a collaborative work environment conducive to innovation and progress.

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