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# **SUPERVISOR’S RECOMMENDATION LETTER**

I hereby recommend that the report prepared under my supervision by Rubina Khanal in partial fulfillment of the requirements for the degree of Bachelor Of Information Management be processed for evaluation.

……………………………..

**Er. Dhiraj Kumar Jha**

Internship Supervisor

Department of Information Management

Orchid International College,Bijayachowk, Gaushala

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# **CERTIFICATE OF APPROVAL**

The undersigned certify that they have read and recommended to the Department of Information Management for acceptance, an internship report submitted **Ms. Rubina Khanal** in partial fulfillment for the degree of Bachelor of Information Management (BIM).

|  |  |
| --- | --- |
| **Er. Dhiraj Kumar Jha**  Internship Supervisor  Department of Information Technology Orchid International College Bijayachowk, Gaushala | **Nipun Thapa**  Internal Examiner  Department of Information Technology Orchid International College Bijayachowk, Gaushala |

# **STUDENT DECLARATION**

I hereby certify that the internship report I submitted to the dean of the faculty of management at Tribhuvan University under the title "An Internship Report on **Web Application Development** at **Aasha Tech**" is my original work completed as a partial fulfillment of the requirements for the Bachelor of Information (BIM) under the direction of  **Er. Dhiraj Kumar Jha**. The primary and secondary data used to support this independent study were gathered from numerous sources. The acknowledgement mentions the assistance received from other persons. As a result, neither a portion of this study nor the entire document has been submitted to or published for academic awards at any other university or academic organization.

Rubina Khanal

BIM VIII Semester

Orchid International College

T.U. Symbol No: 10102/19

**ABSTRACT**

An internship in a specialized field offers a deep understanding of the industry, valuable market exposure, and helps in discovering potential career opportunities. During my internship, I worked as a Backend Developer at Aasha Tech, where I was responsible for developing websites using HTML, CSS, Bootstrap, and PHP scripting with the Laravel framework. One of the key projects I completed was building an e-commerce website for a client specializing in high-quality honey products. This project required creating a user-friendly online store, integrating a secure payment system, and implementing features for product listings, user accounts, and order management. Guided by the organization’s mentor, this experience was both exciting and challenging, allowing me to apply and enhance the knowledge I gained in college. The internship provided a crucial transition from academic learning to real-world application and was a valuable step into professional life. This report includes an overview of Aasha Tech, the industry context, and the various activities and projects undertaken during the internship period.

Keywords: HTML, CSS, JavaScript, AJAX, Laravel, MySQL, PHP

**ACKNOWLEDGEMENT**

I want to sincerely thank everyone who helped make my internship such a valuable and enjoyable experience. I am especially grateful to my supervisor, Er. Dhiraj Kumar Jha, for his expert advice, constant support, and helpful feedback that guided my project to success. I also appreciate Aasha Tech for giving me this great opportunity. A big thank you to Mr. Bibek Guragain for his reliable help and support during my time at the company. His excellent mentorship, wise advice, and encouragement were crucial for my growth. I also want to thank the entire Aasha Tech team for their continuous support and motivation throughout my internship. Finally, I am grateful to my fellow interns for their teamwork and cooperation, which made this experience even better.

Sincerely.

**Rubina Khanal**

**TU Exam Roll No: 10102/19**

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# **LIST OF ABBREVIATIONS**

BIM Bachelor of Information Management

FOM Faculty of Management

IT Information Technology

TU Tribhuvan University

# **CHAPTER I- INTRODUCTION**

## **1.1 Introduction**

## Laravel is a popular open-source framework for building web applications using PHP. It provides a set of tools and libraries to help developers create modern, secure, and efficient web apps. Laravel makes it easier to handle common web development tasks like routing, user authentication, and database management. The framework follows a design pattern called MVC (Model-View-Controller), which helps in organizing code and separating different parts of the application. The latest version of Laravel is Laravel 10, but older versions are still supported. During the internship, I used Laravel 9 to build the backend of a web application, working with its features to create a functional and well-organized system.

## **1.2 Problem Statement**

## The company initially used a local system for managing sales and customer interactions, but as the business expanded, maintaining and updating individual systems became inefficient and troublesome. To solve this, the company needed an online presence. By developing a web-based e-commerce platform, the company centralized its operations, allowing customers to access products and services from anywhere and simplifying the process of applying updates and improvements. This shift to a web platform addressed the challenges of scalability and efficiency, ensuring a better experience for both the company and its customers.

## **1.3 Objectives**

The main objective of the internship program is to get real life working experience in an organizational setting and learn and implement theoretical knowledge and ideas to practical and real-life environment. Some of the objectives for my internship period was to :

* To be able to implement MVC pattern in Laravel.
* To be able to build a scalable e-commerce website.
* To learn to work with organization tools and techniques.

## **1.4 Literature Review**

Laravel for e-commerce development offers several distinct advantages (Yadav, Rajpoot, & Dhakad, 2019). Laravel's clean and elegant syntax, coupled with its comprehensive set of features, facilitates rapid and efficient development of web applications. The framework's routing capabilities allow developers to define routes in a simple and expressive manner, enhancing the readability and maintainability of the code. Eloquent ORM, Laravel's powerful database management tool, simplifies database interactions and making it easier to work with complex database relationships.

The Blade templating engine in Laravel enables developers to create dynamic and reusable views, which is essential for the consistent and efficient rendering of e-commerce pages. Laravel’s built-in authentication and authorization mechanisms ensure secure user management and access control, which are critical for protecting sensitive customer data in an e-commerce environment.

The framework's robust ecosystem, including a variety of packages and tools, allows for the seamless integration of additional functionalities such as payment gateways, inventory management, and customer relationship management.

Overall, Laravel's developer-friendly design and powerful features make it an ideal choice for building scalable, secure, and maintainable e-commerce websites. Its ability to streamline the development process while maintaining high standards of security and performance underscores its suitability for modern e-commerce solutions (Yadav, Rajpoot, & Dhakad, 2019).

## **1.5 Scope and Limitation**

## The main purpose of the internship was to enhance my skills as a developer through practical, hands-on experiences. However, my project specifically focused on developing an e-commerce website, which limited my work to this domain.

## **1.6 Methodology**

## **1.6.1 Organization Selection**

### Choosing the right organization for an internship is crucial. Given my interest in backend development, I focused my search on job portals and company websites for backend-related positions. I then submitted my CV to various suitable organizations. As a result, I was selected for the role of Laravel Developer at Aasha Tech through an interview.

### **1.6.2 Placement**

The intern was placed in the development section of Aasha Tech and was given the task to develop the websites on Laravel. I was provided with a workspace and was allocated to the development department where multiple front-end and backend developers were present under supervision of Mr. Bibek Guragain throughout my internship period .

### **1.6.3 Duration**

Although as per the requirement of T.U, BIM students are required to do intern for only two months because I stated early I decided to extend my internship period to three months.

Start date: 21st March 2024

End date: 21st June 2024

Total Duration: 3 Months

Office hour: 9:30 AM – 5:30 PM

## **1.7 Roles and Responsibility**

The responsibilities that I have been tasked with are:

* Perform the CRUD Operation.
* Make the client-side dynamic.
* Make reusable components and test these components.
* Stripe Integration.

# **Chapter II-INTRODUCTION TO INDUSTRY**

## **2.1 Brief Introduction to IT Industry**

The IT industry encompasses a broad range of companies and technologies focused on managing and sharing information through digital tools. This includes hardware manufacturers, software developers, telecommunications providers, internet service companies, and e-commerce platforms. It has revolutionized how we live, work, and communicate by making it easier to stay connected, access information, and perform tasks efficiently. Industry drives economic growth by creating jobs and enhancing technological innovations, and it continues to evolve, introducing new solutions that impact daily life, from online shopping and social media to cloud computing and cybersecurity. This industry is diverse, and it includes companies that specialize in hardware, software, telecommunications, internet services, and e-commerce.

## **2.2 History of IT In Nepal**

## The history of IT in Nepal started in the 1980s when the country began using computers in government and schools. In the 1990s, the government created policies to help the IT industry grow, leading to the rise of many IT companies. Since then, the IT sector in Nepal has continued to expand, and now it is an emerging field that provides jobs for thousands of people.

## **2.3 Importance of IT In Nepal**

The IT industry is crucial today because it supports the operations of many different sectors and services. It has changed the way we communicate, get information, and do business. IT has also led to the creation of new fields like online shopping (e-commerce), financial technology (fintech), and health technology (healthtech). Beyond everyday tasks, IT helps focus on global issues such as climate change, poverty, and disease. By providing tools and solutions, IT makes it possible to analyze data, create effective strategies, and implement solutions that address these important challenges, making a significant impact on our world.

**2.4 Challenges and Opportunities of IT**

### The IT industry faces several important challenges and opportunities that can influence its future. Challenges include cybersecurity threats that can harm data security, a shortage of skilled workers needed for technology jobs, limitations in existing infrastructure, and rapidly changing consumer demands. Despite these issues, there are many exciting opportunities. New technologies like artificial intelligence, blockchain, and the Internet of Things are creating new possibilities and innovations. Additionally, evolving consumers’ needs to present new avenues for growth. Government support also plays a key role in boosting industry, helping it to overcome obstacles and take advantage of new opportunities.

### **2.4.1 Challenges**

### The IT industry faces several challenges that can affect its growth and progress. One major concern is cybersecurity threats, which means companies need to invest in strong security systems to protect their data and networks. Another issue is a shortage of skilled IT workers, as there is high demand for professionals with the right skills. Infrastructure problems, like limited access to reliable internet and electricity, can also slow down the industry’s growth. Additionally, companies that are slow to adapt to changing consumer preferences may struggle to keep up with new trends.

### **2.4.2 Opportunities**

Despite the challenges, the IT industry has many opportunities to grow and succeed. New technologies like artificial intelligence, blockchain, and the Internet of Things have the potential to greatly impact the industry and open new possibilities. There are also growth opportunities in underdeveloped areas, such as rural regions and developing countries. Additionally, as consumer needs change, such as a growing desire for personalized services, companies that can adapt will find new chances to succeed. Government support through helpful policies and funding can also boost the industry’s growth.

## **2.5 Present Situation**

The IT industry in Nepal is expanding quickly and plays an important role in the country's economy. According to a report from the Nepal Association of Software and Services Companies, the industry has grown by more than 20% over the past five years. It provides jobs for over 30,000 people and brings in more than $250 million in revenue. The government has helped this growth by offering tax breaks and funding for new businesses. Despite these positives, the industry still faces some challenges, like a lack of skilled workers and problems with infrastructure, such as limited internet access and power supply.

# **Chapter III-INTRODUCTION TO ORGANIZATION**

## **3.1 Organizational Detail**

Aasha Tech is an IT organization, working in the field of the Software Development, Web Development, Digital Marketing, Real Time Data Research and Marketing. It was founded in the year 2019 AD by Mr. Mukesh Jung Khadka with its office being located in Sinamangal, Kathmandu. Over the course of the year the company has established itself as the center of excellence in web development, progressive learning systems and real time data management system.

Digitizing your future is one of the main mottos of this organization. To achieve the objective of the organization, they continuously study and implement new technologies and methodologies and test them at the user level. As an organization that continually explores emerging technologies, Aasha Tech is likely to expand its service offerings and explore new markets in the future. They will likely remain dedicated to their mission of elevating performance through digital solutions and helping businesses thrive in the digital age.

**Table 3.1 Organization Detail**

|  |  |
| --- | --- |
| Name | Aasha Tech |
| Location | Sinamangal, Kathmandu |
| Contact Number | 9861331656 |
|  |  |
| Email | info.aashatech@gmail.com |
| Website | https://aashatech.com/ |

**Table 3.2 Mentor's Detail**

|  |  |
| --- | --- |
| Name | Mr. Bibek Guragain |
| Position | Managing Director |
| Contact | 9861331656 |

## **3.2 Organizational Hierarchy**

An organization's structure defines how authority, communication, rights, and responsibilities are organized and managed. It determines how roles and duties are distributed and how information moves through different management levels, guided by the organization’s goals. In a centralized structure, top management has most of the decision-making power and closely controls departments. In a decentralized structure, decision-making is spread out, giving departments or divisions more independence.

Aasha Tech uses a hierarchical structure but with a flat design. This means there are fewer levels of management, making it easier for employees to work together and communicate directly. The flat structure helps create a more open and collaborative environment, where employees can share ideas and work closely with each other.

A diagram of a company

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Figure 3.1 Hierarchy of Aasha Tech

* CEO: Mr. Mukesh Jung Khadka serves as the CEO and oversees the entire company's operations.
* Manager: Mr. Bibek Guragain is a managing director and plays a crucial role in ensuring the smooth functioning of the company. He closely collaborates with senior management to achieve long-term objectives, manage budgets, handle procurement, and formulate operational strategies.
* Marketing Team: The Marketing Department includes a UI/UX designer who focuses on user interface and user experience design.
* IT Department: The IT Department comprises developers of varying expertise levels, including developer interns. Their responsibilities include application design, development, and testing. They ensure that the functional and non-functional requirements of the applications are met and conduct black box testing to identify any vulnerabilities or bugs in the system.

## **3.3 Working Domains of the Organization**

Aasha Tech provides multiple services in the area of the website design and the application development. The area of expertise of the organization are:

**3.3.1 Web Development**

### Aasha Tech specializes in web development, leveraging a range of technologies to build and enhance websites and web applications. They use WordPress for creating and managing content-rich websites, offering a user-friendly platform for easy updates and maintenance. ReactJS is utilized for building interactive and dynamic user interfaces, particularly suited for single-page applications that need real-time updates. NextJS builds on ReactJS by enabling server-side rendering and static site generation, which improves performance and search engine optimization. For backend development, Laravel provides a robust PHP framework with elegant syntax for creating secure and scalable web applications. NodeJS is used for server-side JavaScript programming, allowing the development of fast and scalable network applications. Together, these technologies enable Aasha Tech to deliver comprehensive and high-quality web solutions.

**3.3.2 Digital Marketing**

Aasha Tech also excels in the digital marketing domain, focusing on enhancing online presence and driving traffic through effective strategies. A key component of their digital marketing efforts is Search Engine Optimization (SEO). SEO involves optimizing websites to improve their visibility in search engine results, making it easier for potential customers to find them. This process includes keyword research, on-page optimization (such as improving site content and structure), and off-page techniques (like building backlinks). By employing SEO best practices, Aasha Tech helps businesses increase their online visibility, attract more visitors, and ultimately achieve their marketing goals.

### **3.3.3 Content Creation**

## Aasha Tech is also skilled in content creation. This means they produce engaging and useful content for websites, blogs, social media, and other online platforms. This includes writing articles, designing graphics, and making videos that capture the audience’s interest. Good content helps attract and keep customers, improves a company’s online presence, and supports SEO by making it easier for people to find the company through search engines. Aasha Tech’s content creation services ensure that clients have high-quality content that helps them succeed online.

## **3.4 Description of Intern Department**

The internship department of the Aasha Tech is responsible for providing students and recent graduates with hands-on experience in web development. The department is responsible for identifying and recruiting interns, as well as providing them with the training and support they need to be successful in their roles. The interns are technically assigned to ongoing projects and are given the opportunity to work alongside experienced developers. It usually had one stand up meeting in the evening session. It was also consulted to the different teams about the finished issues and the new issues that need to get worked on.

In this department the interns are given the opportunity to learn about the web development process, as well as the tools and the technologies used in the industry. The department also provided mentorship and guidance to help interns develop their skills and advance their careers. The intern department provides a positive learning experience and to ensure that the interns are well prepared for the next steps in their careers. GitHub was used as the version control to add and commit the changes in our respective branch. The procedures, techniques, and tools used to ensure that a product or service complies with the standards are included in the internship working plan.

**Table 3.3 Internship Detail**

|  |  |
| --- | --- |
| Organization | Aasha Tech |
| Name | Rubina Khanal |
| Position | Laravel Intern |
| Project Name | Sacred Himalayan Honey |
| Department | Laravel |
| Start Date | March 21st 2024 |
| End Date | June 21st 2024 |
| Working Days | Sunday-Thursday |
| Office Hours | 9:30 AM – 5:30 PM |
| Mentor’s Name | Bibek Guragain |
| Project Manager | Bibek Guragain |

# **Chapter IV-ANALYSIS OF ACTIVITIES DONE AND PROBLEMS SOLVED**

## **4.1 Project Overview**

Sacred Himalayan Honey is an e-commerce web application built with Laravel, offering the following features:

1. Register, log in, and manage passwords.
2. Display and categorize honey products.
3. Add, update, and remove items from cart.
4. Secure payment and order review.
5. Track and view order history by user.
6. Manage user profiles and inquiries.
7. Search and filter products for convenience.
8. Optimized for desktop and mobile devices.
9. Interactive elements and real-time updates.
10. Manage products, orders, and analytics through admin panel.
11. Secure payment and data protection.
12. SMS/email notifications and parcel tracking.

## **4.2 Tools Used in Project**

**Table 4.1 Tool Description**

|  |  |  |
| --- | --- | --- |
| Purpose | Tools | Used For |
| Database | MySQL | Used for storing and retrieving data as requested by users |
| Framework | Laravel | Used for programmers to build a dynamic website. |
| IDE and Code Editor | Visual Studio | Used for development of computer programs and websites. |
| Operating System | Windows | Used for managing computer hardware, software resources. |

## **4.3 Use Case Diagram**

## A use case diagram is a visual tool that shows how users or actors interact with a system to achieve specific goals. It illustrates the different ways users can use the system, the various functions or "use cases" they can perform, and the relationships between them. Essentially, it helps to map out what the system does from the users' perspective, making it easier to understand how the system meets their needs.

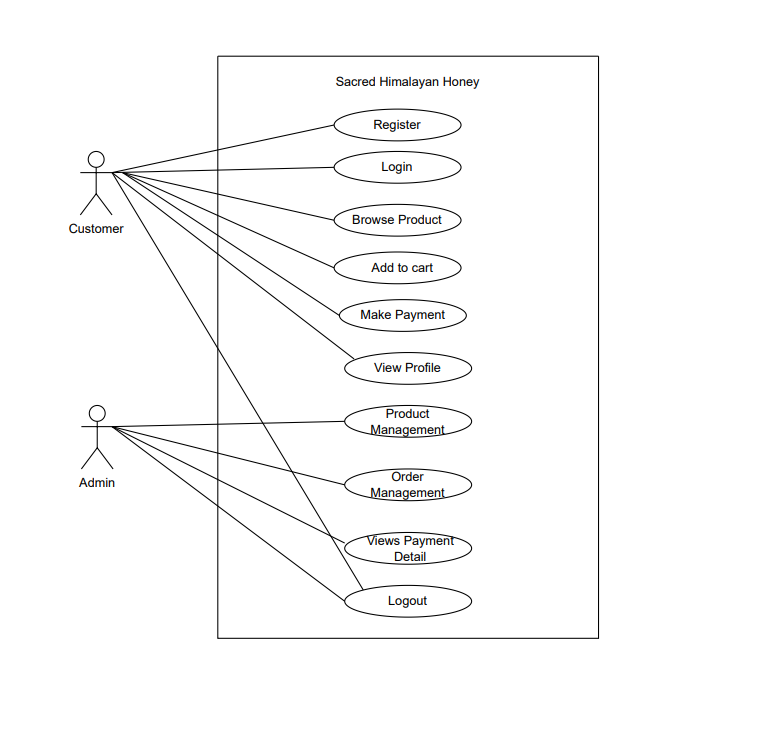


Figure 4.1 Use Case Diagram of Sacred Himalayan Honey

This use case diagram shows an e-commerce system for Sacred Himalayan Honey. It shows two user types: Customers and Admins, each with specific interactions. Customers can register, login, browse products, add items to cart, make payments, and view their profile. Admins have access to product management, order management, and payment details. Both user types can logout. The diagram provides a visual summary of the system's main features, illustrating how different users interact with the platform.

## **4.4 Test Case**

A test case is a detailed document that outlines the specific inputs, conditions, procedures, and expected results for testing a particular aspect of software. It serves as a structured guide to ensure that the software functions as intended and meets its requirements. Test cases provide a systematic approach to testing by defining exactly what needs to be tested, how to test it, and what should happen if the software behaves correctly. This structured approach helps in achieving comprehensive test coverage, allows for consistent and repeatable testing across different versions of the software, and supports effective regression testing. By using test cases, testers can systematically verify software functionality, identify and fix issues, and ensure that the software remains stable and reliable as it evolves.

**Table 4.2 Test Case For Creating Product**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Name: Creating Product | | | | | | | |
| Test Case | | | | | | | |
| Test ID:Test\_001 | | | | | Designed By : Rubina | | |
| Test Priority: High | | | | | Executed By: Rubina | | |
| Module Name: Product\_Create | | | | |  | | |
| Test Title: Create Product | | | | |  | | |
| Description: To create a new product | | | | | | | |
| Step | Tests Step | | Expected Result | Actual Result | | Status | Notes |
| 1. | Go to Product menu | | Product list should be displayed | Product list is displayed | | Pass |  |
| 2. | Click on create new product | | Form should pop up | Form popped up | | Pass |  |
| 3. | Enter Details | | Product is created | Error | | Fail | Price should be added. |
| 4 | Enter Details | | Product is Created | Error | | Fail | Category and Brand should be selected. |
| 5 | Enter Details | Created | | Created | | Pass | Product Added Successfully |

**Table 4.3 Test Case For Creating User**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Name: Create User | | | | | | | |
| Test Ca se | | | | | | | |
| Test ID:Test\_002 | | | | | Designed By: Rubina | | |
| Test Priority: High | | | | | Executed By: Rubina | | |
| Module Name: UserCreate | | | | |  | | |
| Test Title: Create User | | | | |  | | |
| Description: To create a user for the company | | | | | | | |
| Step | Tests Step | | Expected Result | Actual Result | | Status | Notes |
| 1. | Go to User menu | | User list should be displayed | User list is displayed | | Pass |  |
| 2. | Click on create new User | | Form should pop up | Form popped up | | Pass |  |
| 3. | Enter Details | | User is created | Error | | Fail | User Code Already Exists |
| 4 | Enter Details | | User is Created | Error | | Fail | Access not given to Assign Role Admin |
| 5 | Enter Details | Created | | Created | | Pass | User Created Successfully |

# **CHAPTER V- CONCLUSION**

## **5.1 Conclusion**

Interning at Aasha Tech as a Laravel developer has been a fantastic experience. I’ve worked with a talented team and learned a lot about web development. This internship has given me valuable hands-on experience with real-world projects, which is crucial for starting a career in the field. I’ve gained practical skills, improved my ability to work with others, and grown both professionally and personally. I’m grateful for the opportunity to be part of Aasha Tech and to have worked on meaningful projects that have helped me develop new skills.

In today's competitive and dynamic age, it is crucial to possess both theoretical knowledge and practical skills while gaining exposure in the field of interest. The internship program at Aasha Tech aimed to provide a platform and foundation for starting a career in a specialized field. Practical knowledge holds significant importance as it offers a real-world perspective and allows individuals to understand the actual work situations they may encounter. Dealing with such situations fosters the development of interpersonal and communication skills while shaping one's personality.

Participating in this internship program has been a golden opportunity for me to gain practical knowledge, acquire new skills, and broaden my horizons. I am grateful for the chance to be exposed to real-world scenarios and to grow both professionally and personally.

## **5.2 Lesson Learnt**

Working at Aasha Tech as a Laravel intern has been a transformative experience, providing me with essential insights and skills in web development. During my time here, I learned about various aspects of web development, specifically focusing on Laravel and modern web technologies. Here are some valuable lessons I’ve gained:

* Laravel Framework: I deepened my understanding of Laravel, learning how to use its features to build efficient and scalable web applications. I gained hands-on experience with routing, controllers, and Eloquent ORM for managing database interactions.
* MVC Architecture: I learned the importance of the Model-View-Controller (MVC) pattern in organizing code and separating concerns within a web application. This helped me develop maintainable and modular applications.
* Front-End Integration: I gained skills in integrating Laravel with front-end technologies like HTML, CSS, and JavaScript. This experience taught me how to create responsive and user-friendly interfaces that work seamlessly with Laravel back-end.
* Database Management: I acquired knowledge in working with databases, including creating migrations, seeding data, and managing relationships between models. This experience enhanced my ability to efficiently interact with and manipulate data.
* Debugging and Error Handling: I developed skills in debugging and troubleshooting Laravel applications. I learned how to identify and fix issues, handle exceptions, and use Laravel’s built-in tools for error management.
* Performance Optimization: I explored techniques for optimizing the performance of Laravel applications, including query optimization, caching strategies, and efficient resource management to ensure fast and responsive web applications.
* Version Control with Git: I improved my proficiency in using Git for version control, learning how to manage code changes, collaborate with team members, and handle merge conflicts effectively.
* Team Collaboration: Working at Aasha Tech taught me the value of teamwork and communication. I learned to collaborate effectively with colleagues, share knowledge, and contribute to a collective goal, which is crucial for successful project delivery.

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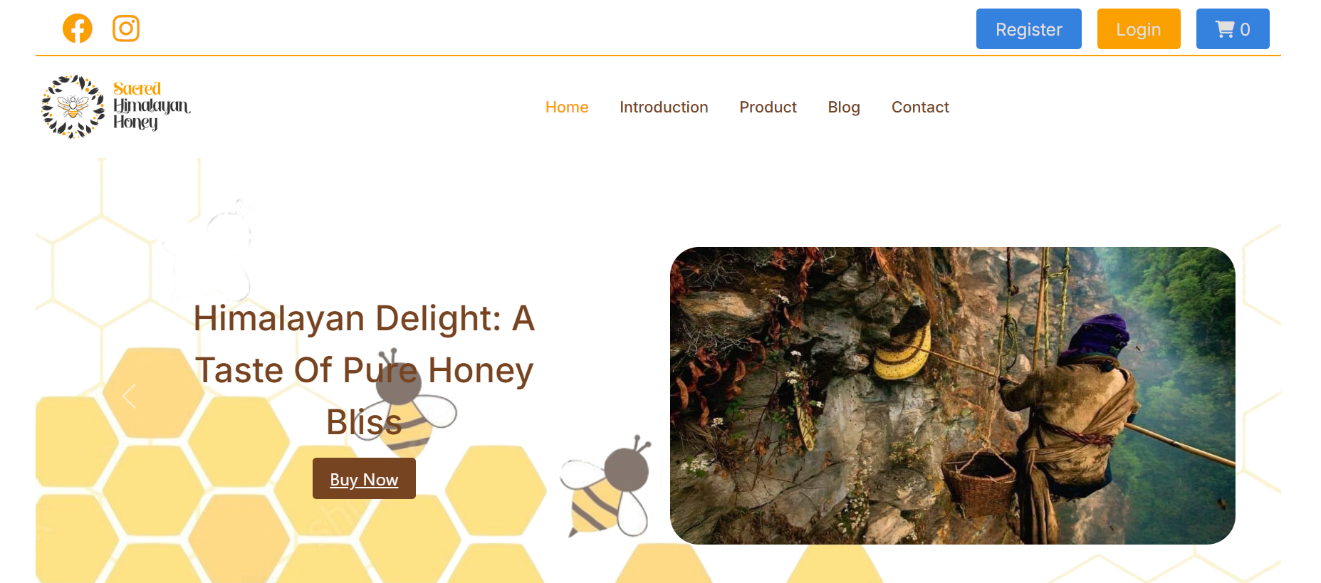
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Appendix



A jar of honey with a label

Description automatically generated

A screenshot of a computer

Description automatically generated

A close-up of a computer screen

Description automatically generated