

# **INDUSTRIAL TRAINING**

**Final Report**

**UWU/IIT/19/023**

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## **ACKNOWLEDGMENT**

To become a professional in the IT industry, industrial training is the foundation for every undergraduate. It helps students improve their practical skills related to interpersonal communication, problem solving, and research and reporting as well as soft skills. Additionally, it gives students exposure to the industry, allowing them to apply the knowledge gained throughout the academic program and learn about new, up-to-date technologies. Furthermore, it supports the professional development of students and prepares them for employment after graduation by engaging in private and personal activities.

I would like to express my sincere thanks and gratitude to all those who directly and indirectly contributed to the successful completion of my internship.

First and foremost, I would like to thank my university, lecturers, for their guidance, support and invaluable feedback throughout my university years. Their expertise and encouragement have been instrumental in shaping the direction of the internship and ensuring its success.

I would also like to thank the owner of Keen Rabbits (Pvt) Ltd Mr.Vindana Gunaratne (CEO) for allowing me to work on this project as a part of my academic curriculum. His support and encouragement have been significant in ensuring that the project's goals were achieved. Furthermore, I would like to thank my supervisor Mrs. Naduni Jayamaha (Manager) for her guidance, support, and invaluable feedback throughout the project. Her knowledge and expertise in web development have been instrumental in shaping the project's direction and ensuring its success.

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# 1. OVERVIEW

## 1.1 My Details

- Name : M.K.U.G.Kumari
- Registration Number : UWU/IIT/19/023
- Degree Program : Industrial Information Technology Degree Program
- My Designation : Full-Stack Software Developer - Intern
- Internship Period : 01<sup>st</sup> April 2024 – 01<sup>st</sup> October 2024
- My Email : iit19023@std.uwu.ac.lk
- Telephone : 071 0808876

## 1.2 Company Details

- Name : Keen Rabbits (Pvt) Ltd
- Address : 173, 05<sup>th</sup> Floor Ward City Shopping Complex Marybiso Mawatha, Gampaha
- Email : keenrabbits@gmail.com
- Telephone : 070 6920 610
- Website : <https://www.keenrabbits.biz/>

## 1.3 Supervisor Details

- Name : Mrs. Naduni Jayamaha
- Email : naduni@keenrabbits.biz
- Telephone : 070 6920607
- Designation : IT Manager

## 2 INTRODUCTION TO THE COMPANY

### 2.1. About Keen Rabbits (Pvt) Ltd

Keen Rabbits (Pvt) Ltd. is a diversified group of companies established in 2019. Among its various ventures, the web development division stands out as a key player in the technology sector. This division specializes in creating innovative, user-friendly websites and web applications tailored to meet the unique needs of businesses across different industries. Keen Rabbits focuses on delivering cutting-edge digital solutions. Since its inception, it has built a reputation for excellence in web design, development, and digital marketing. The team's expertise spans various technologies and platforms, enabling them to provide comprehensive services that include custom website development, e-commerce solutions, mobile application development, and SEO optimization.

### 2.2. Nature of Business

Keen Rabbits is a leading Digital Marketing Company and Software Company with a focus on driving impactful business growth through Web Design, Graphic Design, and Social Media Marketing Services. With a commitment to quality and customer satisfaction, the web development division of Keen Rabbits (Pvt) Ltd. continues to drive digital transformation for its clients, helping them achieve their business goals through robust and scalable web solutions.

Products of the Company	Services of the Company
Ran Asswanna - E-Commerce Website	Web Development and Design
Keen Rabbits - Static Webpage	Software Development and Design
Danveem.lk - Dynamic Website	E-Commerce Development
Malza Traders - E-Commerce Website	Search Engine Optimization
Jump on Travels – Dynamic Website	Brand Development and Design
Lassana Gedara Constructon – Dynamic Website	Digital Marketing
OT Maldives - Dynamic Website	Social Media Management

Table 1: Company Products and Services

### **2.3. Vision**

To be recognized for our contribution to the digital economy and the value we bring to business and society.

### **2.4. Mission**

To enable businesses to grow by using our effective digital marketing services, and people to be satisfied by finding convenience, fun, and value in our online products.

### **2.5. Objectives**

Helping clients untangle complex issues that always emerge during their digital evolution journey.

### **2.6. Goals**

The goals of Keen Rabbits (Pvt) Ltd.,

- **Deliver Innovative Solutions:** Continuously provide cutting-edge web and digital solutions that leverage the latest technologies to meet and exceed client expectations.
- **Customer Satisfaction:** Maintain a strong focus on customer satisfaction by understanding client needs, delivering high-quality services, and ensuring timely project completion.
- **Expand Market Reach:** Grow the company's presence in both local and international markets, establishing Keen Rabbits as a trusted name in the web development industry.
- **Enhance Digital Transformation:** Help businesses transition to digital platforms, offering scalable and robust web solutions that enhance their online presence and operational efficiency.
- **Foster Talent and Innovation:** Invest in the continuous learning and development of the team, encouraging innovation and creativity to stay ahead in the competitive market.
- **Sustainable Growth:** Achieve sustainable business growth by adopting best practices, efficient project management, and maintaining strong client relationships.



Figure 1: Company Logo

## **3 MY EXPERIENCE DURING THE INTERNSHIP PERIOD**

### **3.1. Technologies Learned**

#### **3.1.1. Tools**

I primarily used an integrated development environment (IDE) to support my coding and project management needs Visual Studio Code. These tools provided robust features for coding, debugging, and managing projects efficiently. Additionally, XAMPP served as my local development server, allowing me to run and test web applications locally before deployment.

- Visual Studio Code

Visual Studio Code (VS Code) is a free, open-source code editor developed by Microsoft. It offers a range of features, including syntax highlighting, intelligent code completion, snippets, and debugging support.

- XAMPP

XAMPP is a free and open-source cross-platform web server solution stack. It includes Apache HTTP Server, MySQL, PHP, and Perl. XAMPP provides a local server environment for testing and developing web applications before deploying them to a live server. It helps avoid issues on live websites by allowing developers to test their projects locally.

- Google Chrome

Google Chrome is a fast, secure, and free web browser developed by Google. It supports modern web technologies and offers powerful developer tools that help in debugging and optimizing web applications.

- Mail trap

Mail trap is a fake SMTP server for development teams to test, view, and share emails sent from development and staging environments without spamming real customers. It provides a secure testing environment where developers can inspect emails sent by their application without worrying about sending them to real users



### **3.1.2. Technologies**

The primary framework I worked with was laravel, which is built on PHP. To support Laravel development, I gained a strong understanding of PHP. For creating dynamic and responsive web applications, I utilized HTML, CSS, and JavaScript. Bootstrap, a popular front-end framework, was used for styling and layout, helping to design visually appealing and mobile-friendly interfaces. For database management, I worked with MySQL, ensuring efficient data storage and retrieval. These technologies collectively enhanced my development workflow, enabling me to build, test, and deploy web applications effectively.

- **Laravel**

Laravel is a PHP-based web framework designed to make web application development more efficient and enjoyable. It provides a robust set of tools and features, including routing, authentication, and an ORM (Eloquent). Laravel follows the MVC (Model View-Controller) architectural pattern, promoting clean and maintainable code.

- **PHP**

PHP is a widely used open-source scripting language especially suited for web development. It can be embedded into HTML and is executed on the server side. PHP is known for its flexibility, ease of use, and compatibility with various databases, making it a popular choice for creating dynamic web pages.

- **HTML**

HTML (Hyper Text Markup Language) is the standard markup language for creating web pages and web applications. It provides the structure of a webpage, allowing developers to embed text, images, links, and other elements. HTML is a fundamental technology for web development.

- **CSS**

CSS (Cascading Style Sheets) is a style sheet language used for describing the presentation of a document written in HTML or XML. CSS controls the layout, colors, fonts, and overall visual appearance of a webpage, enhancing user experience and design consistency.

- JavaScript

JavaScript is a versatile, high-level programming language commonly used in web development. It enables interactive web pages by allowing developers to implement complex features such as animations, form validation, and dynamic content updates. JavaScript runs on the client side, making it an essential tool for creating engaging user experiences.

- Bootstrap

Bootstrap is a popular front-end framework for developing responsive and mobile-first websites. It includes pre-designed HTML, CSS, and JavaScript components, making it easier to create consistent and visually appealing web interfaces. Bootstrap helps streamline the development process and ensures compatibility across different devices and browsers.

- MySQL

MySQL is an open-source relational database management system (RDBMS). It uses structured query language (SQL) for database access and management. MySQL is known for its reliability, performance, and ease of use, making it a popular choice for web applications that require robust data storage and retrieval capabilities.

### **3.1.3. MVC (Model-View-Controller) Architecture**

The MVC architecture is a design pattern that separates an application into three interconnected components:

**Model:** Represents the application's data and business logic. It directly manages the data, logic, and rules of the application. For instance, in a web application, the model would handle data retrieval from a database, as well as any data manipulation.

**View:** Represents the presentation layer, displaying the data provided by the model. The view is responsible for rendering the user interface and presenting the data to the user. It focuses on what the user sees.

Controller: Acts as an intermediary between the model and the view. It handles user input, manipulates the model, and updates the view. The controller interprets user actions (like clicks or form submissions), updates the model based on those actions, and then selects the appropriate view to display.

This separation of concerns in MVC architecture helps in organizing code, making it more modular, maintainable, and scalable. Each component can be developed and tested independently, which enhances the overall development process.

## **3.2. Projects Engaged**

Throughout my internship at Keen Rabbits (Pvt) Ltd., I participated in the development of two significant projects. These projects provided me with practical experience and allowed me to apply the tools and technologies I mentioned earlier.

- Jump On Travels Website and Admin Panel
- Reena Reelook website

### **3.2.1. Jump On Travels Website and Admin Panel**

The Jump on Travels project involved creating a dynamic and user-friendly website for a travel agency. This is my first project. Before starting this project I had to study about travel industry in Sri Lanka. Searched for details and images to use for this site by myself at the start of this project. The site needed to display travel packages, allow users to book trips, and provide detailed information about various destinations. I worked on implementing features such as search functionality, booking forms, and user authentication.

Indeed, incorporating an email verification process adds an extra layer of security and authenticity to the login feature on the Jot website. By utilizing tools like Mail trap for testing, the verification process ensures that only genuine users gain access to the platform, enhancing overall security and trust

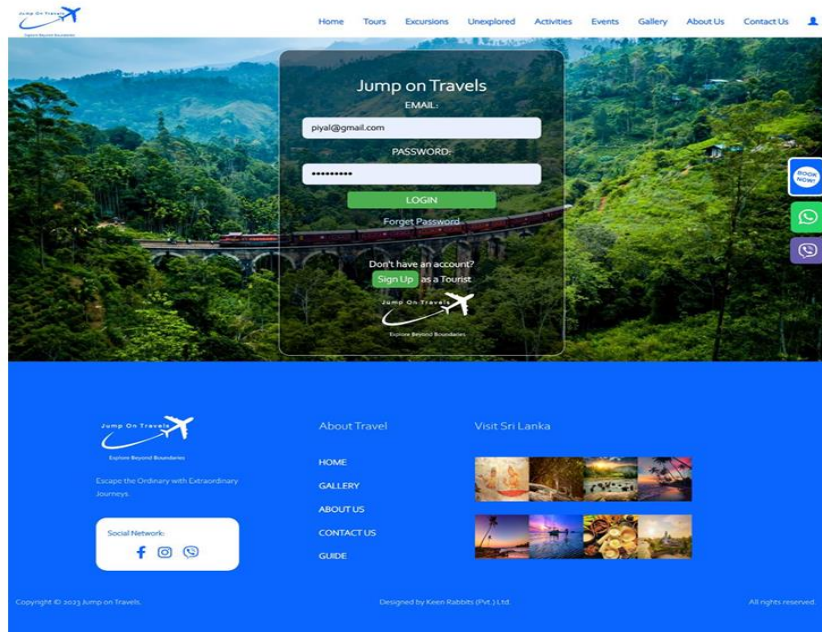


Figure 2: JOT web page

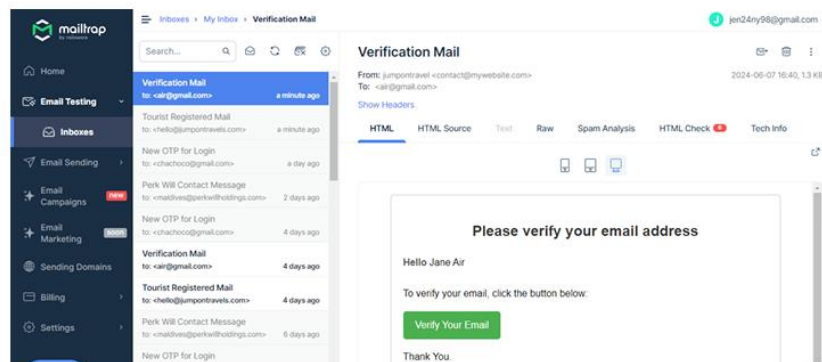


Figure 3: Email Verification Test using Mail trap

### Tourist Dashboard:

- **Add Images and Reviews:** Tourists can upload images and leave reviews for the guides they have interacted with during their travels. This feature allows them to share their experiences and provide valuable feedback to both guides and the travel agency.

- **Interaction with Travel Agency:** Tourists can communicate with the travel agency, making inquiries, and providing feedback.
- **Cancel Bookings:** Tourists can cancel their bookings directly from the dashboard if their travel plans change or if they encounter unforeseen circumstances.
- **View Details:** Tourists can view the details they added when registered to the website.

#### **Guide Dashboard:**

- **View Reviews and Add Images:** Guides can add images and view reviews submitted by tourists who have utilized their services. This feature allows guides to gain insights into their performance and receive feedback from tourists.
- **View Details:** Guides can view the details they added when registered to the website.

Overall, the login feature and associated dashboards enhance the user experience by facilitating communication and interaction between tourists, guides, and the travel agency.

#### **Jump on Travels Admin Panel**

The Jump on Travels website includes an admin panel, accessible via login, which allows the travel agency staff to manage content efficiently. Features of the admin panel include:

- **Content Management:** Admins can update tour information, add or remove images, and modify text on the site.
- **Booking Management:** Admins can view and manage tour bookings, handle cancellations, and communicate with customers.
- **Manage Quotations:** Admins can view inquiries create quotations, send quotations to the tourists, and print quotations.
- **Settings:** Admins can Change password
- **User Authentication:** Ensures secure access to the admin panel, verified through a One Time Password (OTP) using Mail trap.

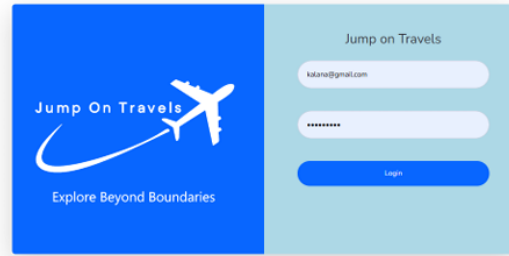


Figure 4: Admin Login Form

### 3.2.2. Reena Reelook website

In this project, I worked on both the frontend and backend development and database connected, Admin panel and web site. The goal was to provide a clean, user-friendly interface for this social media web site. I was involved in building the responsive layout and ensuring the backend functionality aligned with customer requirements.

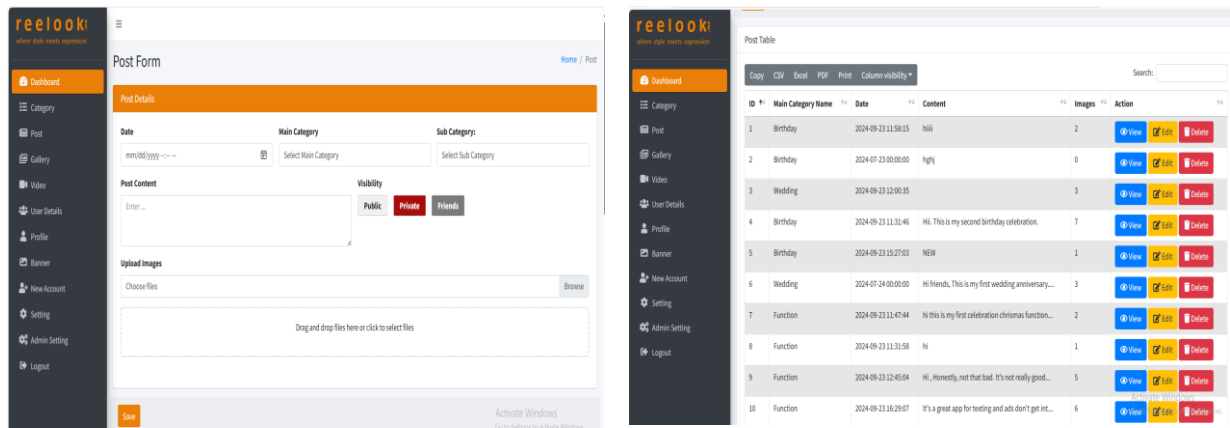


Figure 5: Reena Admin panel

### 3.3. Roles and Responsibilities

#### 1. Assisting in Web Application Development

Collaborated with team members to build and maintain web applications using modern technologies.

#### 2. Learning and Implementing New Technologies

Actively learned and applied new tools, frameworks, and web methodologies, including experimenting with cutting-edge technology under supervision.

### 3. Documenting Code and Features

Wrote clean, well-documented code and contributed to technical documentation such as user manual testing

### 4. Hosting

### 5. Manual Testing

## **3.4. Skills Improved**

During the training, I gained substantial knowledge and experience in the following areas.

- **Technical Skills:** I enhanced my skills in Laravel, PHP, HTML, CSS, JavaScript, and Bootstrap. Working on real-world projects allowed me to apply these technologies effectively and understand their practical implications.
- **Research Skills:** If we creating website, firstly we research under the topic and got ideas. We are creating contents of related topics.
- **Project and Time Management:** I learned how to manage multiple projects simultaneously, prioritize tasks, and meet deadlines. These experiences taught me the importance of time management and organization in delivering successful projects.
- **Diversity:** A chance to learn about different cultures and diversity.
- **Problem-solving:** Encountering and overcoming various technical challenges strengthened my problem-solving abilities and adaptability.
- **Confidence:** After my experience, I got confident level. I can do full stack development.
- **Advanced Project Management:** While I have gained basic project management skills, I need to understand deeper into advanced project management methodologies and tools to handle larger projects more efficiently.

## **4 MY POINT OF VIEW AS AN INTERN**

### **4.1. About the Work**

During my six-month training period at Keen Rabbits (Pvt) Ltd., I primarily worked with the Laravel Framework, which is built using PHP. Initially, my knowledge of PHP was limited, so I dedicated time to exploring Laravel and seeking guidance from my supervisor. This allowed me to gain a solid understanding of various technologies, including PHP, HTML, JavaScript, CSS, and Bootstrap.

Throughout the training, I not only enhanced my technical skills but also developed essential soft skills. Time management became crucial as I juggled multiple tasks and deadlines. Working collaboratively with the team improved my teamwork abilities and decision-making skills. Additionally, I learned efficient problem-solving techniques and coding tricks that are valuable in the software development process.

Overall, this training period laid a strong foundation for my professional career, equipping me with the necessary tools and knowledge to excel in software development. The experience provided a comprehensive introduction to real-world projects and professional environments, making it a pivotal step in my journey as a software developer.

### **4.2. About My Supervisor**

Mrs. Naduni Jayamaha, my supervisor, played a pivotal role in shaping my internship experience. From the outset, she set clear expectations and provided a structured approach that aligned with both the company's goals and my learning objectives. Her hands-on approach to mentoring me made the entire learning process smooth and productive.

What stood out most was her constructive feedback, which was both timely and precise. Whether it was related to frontend design choices or backend logic, her feedback helped me improve the quality of my work substantially. Mrs. Naduni Jayamaha's deep knowledge about php and laravel and her ability to explain complex concepts understandably made it easier for me to grasp that framework.

Whenever I faced challenges or had doubts, I felt comfortable approaching her for guidance. She always worked very supportively. Where I felt motivated to learn and grow. This, in turn, made it easier for me to align my ambitions with the company's objectives, ensuring that both my personal growth and the company's success were on the same trajectory.



## 5 FUTURE CAREER PLAN

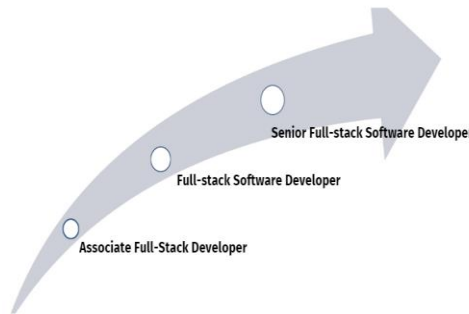


Figure 6: Future Plan

In the coming year, I plan to focus on advancing my skills in PHP and the Laravel framework, as they are pivotal for building scalable and efficient web applications. Mastering these technologies will further sharpen my problem-solving abilities and technical expertise, allowing me to handle more complex and dynamic web development tasks. I aim to stay updated with the latest advancements in these frameworks to remain competitive in the ever-evolving landscape of software development. By deepening my knowledge of PHP, Laravel, and other modern web technologies, I aspire to grow into a more proficient full-stack developer, contributing more effectively to real-world projects and delivering high-quality solutions. This progression will set a solid foundation for me to take on senior roles in the future, with a comprehensive understanding of both backend and frontend development.

Here's a five-year plan aligned with my current career trajectory as a full-stack developer:

Continuing to build projects using Laravel and PHP, focusing on advanced features such as service containers, event handling, and queues. Keeping the codebase efficient and modern, keeping up to date with the latest updates in PHP and Laravel. Working on improving JavaScript frameworks like React or Vue.js for improved front-end development. Attend online courses or certifications (e.g. Laravel Advanced Certification) to improve credibility. Develop backend development skills and understand complex system architectures. Deep dive into backend development concepts such as API development. Explore database optimization and scaling techniques to manage large data sets and traffic.

Collaborate on open source projects or contribute to large teams, improving my collaboration and leadership skills. Start managing small teams or projects, working on the code base and mentoring junior developers. Focus on developing soft skills such as communication, advocacy and problem solving important for leading teams. Advance to a senior or specialist role in full-stack development.

## **6 SUMMARY**

An internship is a short-term work experience offered by an organization to students or recent graduates seeking practical experience in a specific field. It aims to provide the intern with practical skills, knowledge, and professional network building. Internships can be paid or unpaid, and can be full-time or part-time. The objectives of an internship can vary depending on the organization and the intern's goals. Common objectives include applying knowledge in a real-world setting, exploring career paths, building connections, and becoming more competitive in the job market. Overall, the internship provides a meaningful learning experience for professional growth and career objectives.