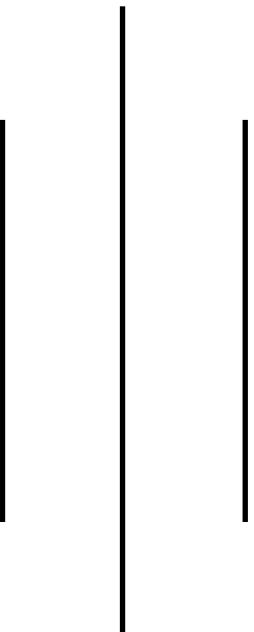


THE REPORT OF ON-THE-JOB-TRAINING (OJT)

ON SOFTWARE DEVELOPER ON SOFTWARE COMPANY



A report submitted
In partial fulfillment of the requirements for the
Degree of Computer Engineering under Technical & Vocational Stream
(Class XII)

Submitted by
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Submitted To:

DEPARTMENT OF TECHNICAL AND VOCATIONAL STREAM

National Examination Board, Sanothimi-Bhaktapur

Date: 2082-05-18

Attach certificate of completion

Approval Letter

The industrial exposure report submitted by Sumit Pokhrel, Registration No: 811040520026 entitled Software Developer on Leading Edge Software has been accepted as partial fulfillments of the requirements for the completion of Computer Engineering.

Approval Committee

.....
Lochananda Khatiwoda
Co-ordinator

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Hari Pokhrel
Principal

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External Examiner Name
External Examiner

ACKNOWLEDGEMENT

I want to express my deepest gratitude to **Leading Edge Software** for providing me with such an incredible opportunity to complete my six-month On-the-Job Training (OJT) program. I also want to thank the National Examination Board (NEB) for including such opportunities in our curriculum. It is an absolute pleasure to be a part of **Shree Aadarsa Secondary School**, and I extend my heartfelt gratitude to **the school** for incorporating an internship report as part of the course. This internship report has been prepared to fulfill the practical field study requirement of **Shree Aadarsa Secondary School**, which has helped me gain a wealth of knowledge, skills, and experiences.

I express my gratefulness to my supervisors and colleagues at the office for their constant support, guidance, and encouragement throughout the training period. Their expertise and willingness to share their knowledge have made this experience highly enriching. Lastly, I extend my appreciation to my teachers, family, and friends for their continuous motivation and assistance

Best Regards,

Sumit Pokhrel

Shree Aadarsa Secondary School
Buddhashanti-2, Jayapur, Jhapa,

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DECLARATION

I hereby declare that I carried out OJT report entitled “**Frontend Web Developer**” of **Leading Edge Software**, is submitted in partial fulfillment of the computer Engineering, **Shree Aadarha Secondary School** is my original work carried out under the supervision of **Mr. Manish Ojha** and has not been submitted anywhere for the award of any other degree or commercial purpose. I solemnly declare that to the best our knowledge, no part of this report has been submitted here or elsewhere in previous application for award of degree. All sources of knowledge used have been duly acknowledge.

With regards,

Sumit Pokhrel

Shree Aadarha Secondary School

Executive summary

This report highlights my six-month On-the-Job Training (OJT) experience at **Leading Edge Software, Birtamode, Jhapa**, where I worked as a **Frontend Web Developer** trainee. The internship provided me with an excellent opportunity to step out of the classroom and into a real working environment, where I could apply my theoretical knowledge in a practical setting. It not only allowed me to improve my technical skills but also gave me a deeper understanding of how software companies operate and deliver solutions to clients.

Throughout my internship, I was actively involved in the design and development of user-friendly web interfaces. My tasks included transforming Figma designs into functional and responsive websites using **HTML, CSS, and JavaScript**, as well as collaborating with backend developers to integrate APIs and dynamic data. I became familiar with version control practices using **GitLab**, which improved my ability to work on team projects efficiently. In addition to frontend work, I also explored **C#** in certain projects to understand backend integration, giving me a broader perspective on full-stack development.

One of the most valuable aspects of this internship was the chance to work closely with experienced developers and designers. Through regular discussions, feedback sessions, and collaboration, I learned how to approach problems with a professional mindset and deliver solutions that balance both functionality and user experience. The exposure to real client requirements helped me develop problem-solving skills, attention to detail, and the ability to adapt to changing project needs.

This internship was not only about improving technical abilities. It also helped me build essential soft skills such as communication, teamwork, and time management. Working in a professional environment taught me the importance of deadlines, accountability, and clear collaboration with team members.

Overall, my OJT at Leading Edge Software was a rewarding and transformative journey. It gave me the confidence to handle real-world projects, improved my technical foundation in web development, and shaped me into a more adaptable and industry-ready professional. The knowledge and experience I gained will serve as a strong stepping stone for my future career in the IT field.

CHAPTER 1: INTRODUCTION

1. Introduction of OJT

On-the-Job Training (OJT) is an integral part of the academic curriculum that provides students with practical exposure to real organizational environments. It bridges the gap between classroom learning and professional practices by allowing students to apply theoretical knowledge in real-world scenarios.

Through OJT, students develop technical, managerial, and interpersonal skills, preparing them for future professional challenges. It helps them understand workplace culture, teamwork, project workflows, and problem-solving approaches.

During my OJT at Leading Edge Software, Birtamode, Jhapa, I worked as a Frontend Web Developer. My role primarily focused on designing and developing user interfaces for web applications, improving user experience, and collaborating with the development team to implement client requirements. This experience gave me valuable insights into modern web technologies, frameworks, and best practices in the IT industry.

2. Company Information

Leading Edge Software is a software and IT solutions company located in Birtamode, Jhapa, Nepal. The company specializes in custom software development, web application design, mobile app development, and IT consulting services. It provides tailored digital solutions to businesses, educational institutions, and government offices.

With a strong focus on innovation and client satisfaction, Leading Edge Software has built a reputation for delivering efficient, secure, and scalable systems. The company's team consists of skilled professionals in web technologies, mobile platforms, and enterprise solutions, making it a reliable partner for digital transformation.

The collaborative and learning-oriented environment at the company also makes it a suitable place for trainees and interns to enhance their technical expertise and professional growth.

3. Mission Of Company

The mission of **Leading Edge Software** is to empower organizations through innovative and cost-effective IT solutions. The company aims to become a trusted partner for businesses by delivering high-quality software, improving digital accessibility, and ensuring customer satisfaction. It focuses on continuous learning, technological advancement, and providing value-driven services.

4. Objectives of OJT

The OJT program aims to provide hands-on experience and professional exposure to bridge the gap between academic knowledge and industry practices. As a **Frontend Web Developer trainee**, my objectives were:

- To gain practical experience in frontend web development using modern technologies (HTML, CSS, JavaScript, React, etc.).
- To understand the workflow of professional software development projects.
- To improve skills in creating responsive and user-friendly web interfaces.
- To learn version control systems (e.g., Git) and collaborative development practices.
- To enhance problem-solving abilities by working on real client projects.
- To develop communication and teamwork skills by coordinating with developers, designers, and supervisors.
- To bridge theoretical knowledge with industry requirements in the IT field.

CHAPTER 2: OJT OBSERVATION

1. Overview Of OJT Experience

My On-the-Job Training (OJT) at **Leading Edge Software, Birtamode, Jhapa** was a valuable and transformative experience. Over the course of six months, I gained practical exposure to frontend web development, which allowed me to apply the theoretical knowledge I had learned in my academic studies to real-world projects.

I worked closely with a team of developers, designers, and supervisors on various client-based and internal projects. This enabled me to understand the complete workflow of professional web development—from planning and design to coding, testing, and deployment. I also improved my problem-solving skills, learned how to work in a collaborative environment, and developed confidence in using industry-standard tools and technologies.

The internship not only enhanced my technical skills but also improved my soft skills, such as communication, teamwork, and time management, which are equally essential in a professional career.

2. Roles and Responsibilities

As a **Frontend Web Developer trainee**, my primary roles and responsibilities during the internship were

1. UI/UX Development

- Designing and developing responsive and user-friendly web interfaces.
- Converting Figma designs into functional web pages using **HTML, CSS, and JavaScript**.
- Ensuring compatibility across different browsers and devices.

2. Frontend Coding and Implementation

- Writing clean, efficient, and reusable code for various web projects.
- Implementing interactive features to improve user experience.
- Collaborating with backend developers to integrate APIs and dynamic data.

3. Version Control and Collaboration

- Using **GitLab** for source code management, project collaboration, and version control.
- Participating in code reviews and contributing to team repositories.

4. Testing and Debugging

- Identifying and fixing bugs or errors in frontend design and functionality.
- Ensuring that websites were optimized for performance and responsiveness.

5. Teamwork and Communication

- Collaborating with designers to bring mockups and prototypes to life.
- Coordinating with backend developers to align frontend with backend logic.
- Attending team meetings, discussing project progress, and sharing updates.

6. Learning and Research

- Exploring new tools, frameworks, and libraries relevant to frontend development
- Adapting to project-specific requirements and applying best coding practices

3. Technologies used/ Methods Used during OJT

Throughout my internship, I worked with different tools, technologies, and methods that enhanced my development skills and practical knowledge. These included:

- **VS Code** → Primary code editor for writing and debugging frontend code.
- **GitLab** → For version control, team collaboration, and project management.
- **Figma** → For UI/UX design reference and implementing responsive designs.
- **HTML, CSS, JavaScript** → Core technologies used for structuring, styling, and adding interactivity to web applications.
- **C#** → Used in some projects to understand backend integration and logic.

CHAPTER 3: PROJECTS

1. Overview of Projects

During my six-month internship at Sunapati Rural Municipality Office, I engaged in several projects that enhanced my technical proficiency and problem-solving capabilities. These projects encompassed frontend web development, UI/UX enhancements, and system integration. They provided an opportunity to apply my academic knowledge in practical scenarios while contributing to the municipality's digital objectives.

Project 1: Balmiki Lincoln College

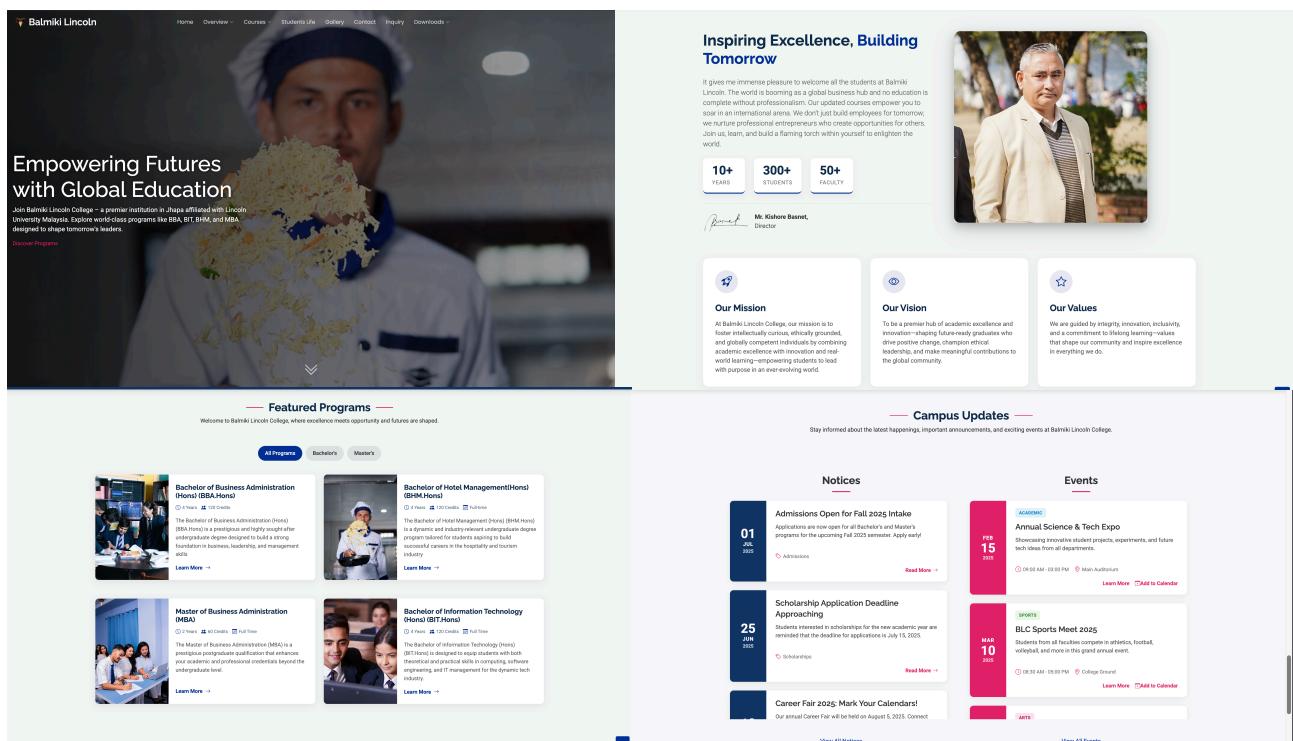
1. Objective: Design and develop a responsive website that facilitates seamless access to Balmiki Lincoln College for students, prospective students, and visitors.

2. Technologies Utilized: HTML, CSS, JavaScript, Visual Studio Code, GitLab.

3. Responsibilities:

- Developed responsive pages with clean layouts and intuitive navigation to ensure a seamless user experience across different devices.
- Ensured mobile compatibility and optimized loading performance to enhance accessibility and speed for users on smartphones and tablets.
- Collaborated with the IT team using GitLab version control to manage code changes efficiently and maintain a cohesive development process.

4. Outcome: Delivered a fully functional frontend that significantly enhanced communication between users and the college, facilitating easier access to information and services.



The screenshot shows the homepage of Balmiki Lincoln College. At the top, there is a large banner featuring a portrait of a young man and the text "Empowering Futures with Global Education". Below the banner, there is a section titled "Inspirational Message" with a quote from Mr. Kishore Basnet, Director, followed by three circular icons representing "Our Mission", "Our Vision", and "Our Values".

On the left side, there is a "Featured Programs" section with cards for "Bachelor of Business Administration (Honors) (BBA-Hons)", "Bachelor of Hotel Management(Honors) (BHMS-Hons)", "Master of Business Administration (MBA)", and "Bachelor of Information Technology (Honors) (BIT-Hons)". Each card includes a thumbnail image, program name, and a "Learn More" button.

On the right side, there is a "Campus Updates" section with cards for "Notices", "Events", and "Academics". The "Notices" section has a card for "Admissions Open for Fall 2025 Intake" dated "01 JUN 2025". The "Events" section has a card for "Annual Science & Tech Expo" dated "FEB 15 2025". The "Academics" section has a card for "Scholarship Application Deadline Approaching" dated "25 JUN 2025".

Project 2: Ganpati Bakery

- Objective:** Design and develop a responsive website that facilitates seamless access to Ganpati Bakery for customers, prospective customers, and visitors.
- Technologies Utilized:** HTML, CSS, JavaScript, Visual Studio Code, GitLab.
- Responsibilities:**
 - Developed responsive pages with clean layouts and intuitive navigation to ensure a seamless user experience across different devices.
 - Ensured mobile compatibility and optimized loading performance to enhance accessibility and speed for users on smartphones and tablets.
 - Collaborated with the IT team using GitLab version control to manage code changes efficiently and maintain a cohesive development process.
- Outcome:** Delivered a fully functional frontend that significantly enhanced communication between users and the bakery, facilitating easier access to information and services.

The screenshots illustrate the following sections of the website:

- Homepage:** Features a large image of a loaf of bread, a "DAILY FRESH BAKED BREAD & CAKES" banner, and a "Welcome to Our Ganpati bakery!" section with a list of offerings like Bread, Cakes, and Donuts.
- Product Categories:** Shows "Top Selling" items: Blueberry Muffin, Danish Pastry, and Coconut Macaron Cookie. Below is a grid of "Categories" including Breads, Cakes, Drinks, and Snacks, with sub-options like Whole Wheat Bread, French-Baguette, and Ciabatta.
- Our Bakers:** Profiles for RAM BUDATHOKI (Chief Baker), JENISHA MAGAR (Chief Baker), and SRIHARI KATTEL (Assistant Baker), each with a photo and social media links.
- Customers' Reviews:** A testimonial from ANAMIKA praising the bakery for a 50th birthday cake, accompanied by a five-star rating and a photo of a loaf of bread.
- Delivery Service:** An overlay box for "Need a fresh delivery?" offering door-to-door service, with branches listed as Bhatiade Branch and Dholiade Branch.
- Our Products:** A grid of "Our Products" including Sourdough (Rs.300), Croissant (Rs.150), Choco Cheesecake (Rs.2500), Ciabatta (Rs.400), Black Forest (Rs.2000), and Maple Oat Muffin (Rs.1000).
- Customer Testimonials:** Three reviews from happy customers: Amar Thapa (Local Customer) about the bread's taste, Aarati Ghimire (Event Planner) about the variety, and Dip Limbu (Food Blogger) about the croissants.

Project 3: Jukekhadi Community Forest

1. **Objective:** Design and develop a responsive website that provides seamless access to information about Jukekhadi Community Forest for visitors, community members, and prospective eco-tourists.
2. **Technologies Utilized:** HTML, CSS, JavaScript, Visual Studio Code, GitLab.
3. **Responsibilities:**
 - Developed responsive web pages with clean layouts and intuitive navigation to ensure an engaging user experience across desktops, tablets, and mobile devices.
 - Mobile-first design principles and optimized loading performance for faster access on smartphones and low-bandwidth networks.
 - Collaborated with the IT team using GitLab version control to manage updates, track progress, and maintain a smooth development workflow.
4. **Outcome:** Delivered a fully functional frontend that improved communication between the community forest and its visitors, enabling easier access to forest-related information, conservation activities, eco-tourism services, and community engagement opportunities.

The collage consists of eight screenshots of the Jukekhadi Park website, arranged in a grid-like layout. The top row shows the homepage with a green landscape background and a banner reading "Experience the Untamed Beauty of Jukekhadi Park". The second row shows a "Moments Captured in Paradise" section with four images: a park scene, a willow tree, a Ferris wheel, and a video thumbnail for "VINYARD SAGA SEASON 2 EP 2". The third row shows an "Activities" section with three boxes: "Picnic Spots", "Nature Photography", and "Bird Watching", followed by a "Ready for Your Jukekhadi Adventure?" call-to-action button. The bottom row shows a "Video Gallery" section with a globe and a video thumbnail for "Private Chef - \$10,000", and a "Frequently Asked Questions" section with three categories: "Operating Hours", "Ticket Information", and "Visitor Guidelines". The footer of each screenshot includes standard website navigation links like Home, Overview, Gallery, Activities, Contact, English, and Nepali.

CHAPTER 4: CONCLUSION

1. Conclusion

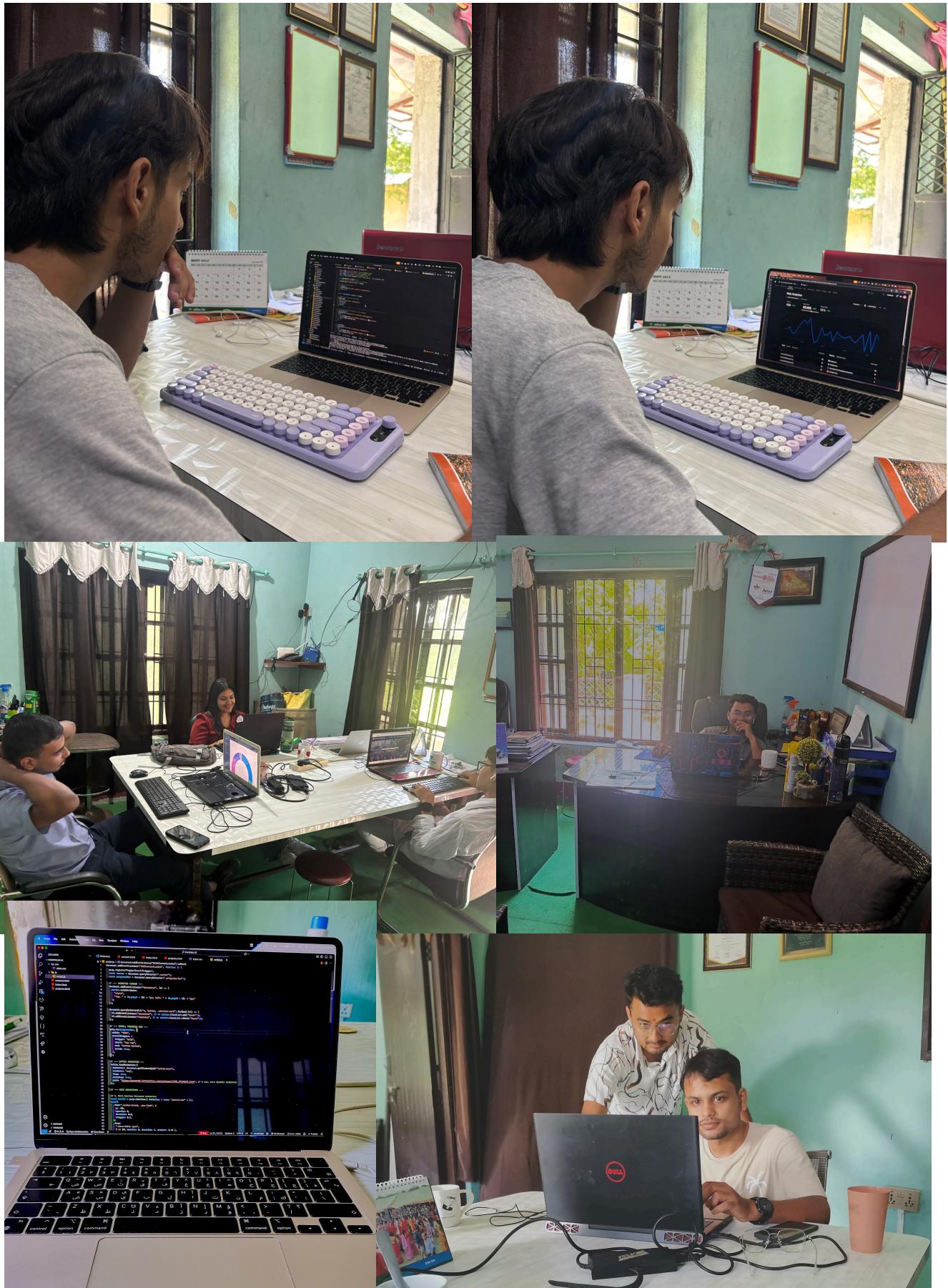
In conclusion, my internship at **Leading Edge Software, Birtamode, Jhapa** was an enriching and transformative experience. It provided me with the opportunity to gain hands-on exposure to **frontend web development** in a real professional environment. The projects and tasks I worked on allowed me to apply my academic knowledge of **HTML, CSS, JavaScript, and C#** while also learning new industry practices such as **responsive design, GitLab version control, and collaborative development workflows**.

During my OJT, I improved my ability to design and implement user-friendly web interfaces, debug and troubleshoot code, and collaborate effectively with developers and designers. I also learned the importance of teamwork, communication, and time management in delivering projects successfully. The mentorship and guidance I received from my supervisors were instrumental in shaping my technical and professional growth.

This internship helped me bridge the gap between theory and practice, strengthened my problem-solving abilities, and gave me confidence to take on real-world challenges in the IT industry. I am confident that the knowledge and experience gained during this period will serve as a strong foundation for my future career as a web developer.

1.1. Images Related With OJT





Recommendation And Suggestions

1. To the Organization (Leading Edge Software)

Based on my experience, I recommend that the organization enhance its internship program by introducing a **structured mentorship and feedback system**. For example, implementing a system where each intern is paired with a mentor and receives **weekly feedback sessions** would help future interns to **understand their progress, identify areas for improvement, and integrate more effectively into the development team**.

Additionally, creating a **clear project roadmap for interns**—such as assigning small but meaningful modules within client projects—would enable them to gain practical experience while also contributing value to the company. This approach would not only help interns feel more confident but also improve the overall efficiency of the internship program.

2. To the School

To better prepare students for industry requirements, I suggest that the school's curriculum be updated to include **practical workshops on modern frontend frameworks and collaborative tools** such as **React, Git/GitLab, and Figma**. This would be highly beneficial because these tools and frameworks were essential for my daily tasks, yet they were only partially covered in the classroom.

Furthermore, incorporating **team-based projects that simulate real-world workflows** (e.g., using version control, design-to-code implementation, and client requirement analysis) would bridge the gap between theory and practice. Such initiatives would give students a clearer understanding of industry standards and make their transition into professional roles smoother.

References

Leading Edge Software: <https://leadingedgesoft.com>

Balmiki Lincoln college: <https://lincolnbalmiki.edu.np/>

Nepal Examination Board: <https://neb.gov.np>