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Acknowledgement

I would like to express my sincerest gratitude to **Mr. Paras Nath Chaudhary**, Chief Technical Officer (CTO) of **Abhiyantrik Technology** for his guidance and supervision during my internship period, **Mr. Kapindra Raut**, Frontend Engineer for his outstanding help and support and to the whole **Abhiyantrik Technology** family. My deepest gratitude goes to the **Department of Computer Science and Engineering** for providing us with the opportunity to gain first hand practical knowledge of working in the professional IT work environment during our academic program. I would like to thank **Mr. Sushil Shrestha** for his constant supervision and introducing me to real life projects during university days, our internship coordinator, **Mr. Satyendra Nath Lohani** for his outstanding help and support during the overall process.

Abstract

This document gives the overview of my three months internship period at Abhiyantrik Technology that was carried out under the course COMP 408, for the fulfilment of final semester course of Bachelors' of Computer Science at Kathmandu University. The document gives a short introduction of the internship program, followed by brief description of the company, discussion of the trainings obtained and the tasks performed and my experience during the internship program.

Chapter 1: Introduction

1.1. Background

This report is to justify my activities in the internship period at Abhiyantrik Technology. from December 17, 2018 to March 15, 2019. The internship program is conducted to fulfill the regular course requirement (COMP 408) of the final year of Bachelor's in Computer Science carrying 6 credit hours.

The internship is conducted with the objective of students pursuing the experience of working in the real corporate culture and handling the real-world jobs and clients effectively. Internship program encourages the students to utilize the theoretical knowledge they have gained in their undergraduate degree and implement them in professional environment. It is an opportunity for the students to implement their academic learning in real world. The students get insight into the work procedure in reputed IT companies, corporate work culture, methodologies and tools.

During my internship period at Abhiyantrik Technology, I have been involved in basic training, adaptation to company specific tools and procedures of performing task, completing assigned tasks and projects and in overall enhancing my skills in User Interface/User Experience (UI/UX).

1.2. Objectives

The major goals and objectives of the internship program are:

- To become familiar with the corporate work culture
- To gain experience of professional work environment
- Implement the theoretical knowledge and expand practical knowledge
- To improve the verbal and written communication skills
- To explore the possibilities and options of various career path and what best suits my capabilities
- To develop project management, project execution and risk-taking skills and confidence in carrying out professional tasks individually.

1.3. Internship Expectation

The main objective of the internship program was to understand the working of the corporate culture, handling of work pressure and teamwork in real world environment and get experience of working in real life projects.

Working under the mentorship of my supervisor in the company, I expected to grow myself, not only on technical aspects but also on the professionalism and communication aspects.

Chapter 2: Organization Overview

2.1. About the organization

Abhiyantrik Technology is a Technology company based in Babarmahal, Kathmandu, dedicated to solving issues of our partners and help them achieve their dream by delivering the highest quality of service. The area of expertise includes technology development, technology consultation, technology integration and system development. Abhiyantrik Technology Pvt. Ltd. The company headquarter is in Babarmahal, Kathmandu.

Abhiyantrik Technology Pvt. Ltd. is founded and incorporated in Nepal under the "Company Act 2063, Government of Nepal – Ministry of Industry, Commerce and Supplies".

Its area of License includes; Software and Information Technology, Electronic & Communication, Research and Innovation in Science, Engineering and Information Technology, Study and Analysis of Data, Consultancy Services, and works that cover Information and Communication Technology (ICT). The license also includes services and import/export jobs in the context of international vendors and clients.

The mission and vision of the company are as follows:

- Skill: Develop and nature the skills of Nepali talents
- Technology: Leverage technology to increase efficiency and outcome
- Society: With the believe in giving back to society, remaining eco-friendly and sustainable

The strength and capabilities are as following:

- Software Development
- System Analysis and Design
- Linguistics and Translation
- Artificial Intelligence (AI) and Machine Learning (ML)

Chapter 3: Tasks, Projects and Activities

In the three months internship period, I was under the supervision of the company's Chief Technical Officer (CTO) **Mr. Paras Nath Chaudhary** in the design team. Under his supervision, I was assigned various tasks focused in furnishing my knowledge on basic Web Development and improvements for UI/UX. I was assigned one manager **Mr. Kapindra Raut** to help me out if I had any problems during the intern period. I reported the updates on the tasks to my supervisor along with using team work for efficient communication on task works.

3.1. The Overall Process

3.1.1. Trainings and Research

Before starting working on real life project, I received trainings on the technologies that are used in the company. The company is mainly focused on developing software for Nepali clients and help them grow their business. Since, the team that I interned with handled the development and maintenance of the website and graphics design. Even though I have experience with working in the web development, graphic designing and some technologies were particularly new for me and it took some time getting used to them.

3.1.2. Tasks

During the training phase, I was assigned particular tasks that I needed to complete within the given deadline to ensure that I was keeping up with all the trainings and research and was able to complete the assigned tasks on time.

3.1.3. Reporting

At the end of each working day, I needed to update my progress in the training phase by updating on the stylesheet, what new knowledge I learned while doing it, time log and the status of the current task. The time log and updates were then reviewed by the manager to ensure proper understanding of each task.

3.2. Skills Gained

3.2.1. Web Development Skills

These are the tools which I learnt that helped me develop the web development skills:

- Hyper Text Marked-Up Language (HTML)
- Cascading Style Sheet (CSS)
- Sassy CSS/Syntactically Awesome Style Sheet (SCSS/SASS)
- Vue.js
- WordPress
 - Child Theme

- Plugins Development

3.2.2. Graphics Designing

These are the tools which helped me develop my graphic designing skills

- Design Thinking
- Adobe XD
- Adobe Illustrator
- Adobe Photoshop

Chapter 4: Internship Experience

Internship period is a chance to gain first-hand experience of working in the professional environment, learn where you fit into the corporate world and get familiar with the procedures, tools and methodologies used in the professional work culture. During my internship at Abhiyantrik Technology, I gained many valuable skills: both technical and professional.

4.1. Achievements

4.1.1. Improvements on programming skills

I got to learn and improve my web development skills during my internship at Abhiyantrik Technology. During our college projects we are only focused on making our code work and don't care much about how efficient the code is or how actually does it work. But at Abhiyantrik Technology, I learned to not only complete the task and hand but to ensure that the method (algorithm) that I have applied is most efficient and doesn't break even at the extreme conditions. Moreover, I got in-depth knowledge regarding web development languages, across-site support and launching of a website.

4.1.2. Experience with working company and specific process

While working in corporate world under a company or organization, there are certain policies and procedures that we have to follow. For each task, I would be given a deadline that I need to follow and certain processes that needs to be completed and verified while completing each assigned task. I got introduced to agile development process and importance of review for quality assurance.

4.1.3. Communication and presentation skills

A most important lesson I gained is that programming is the easiest task to perform while in the professional environment. How we communicate with clients, interpret their response and work accordingly is highly important. I learned how to communicate with clients on daily basis regarding their requirements, get proper insight on requirement analysis, perform feasibility study, plan and complete the task and communicate all the essential information regarding task progress with the clients.

4.1.4. Insights on how design process work

At Abhiyantrik Technology, before any development, design thinking is mainly focused. So, applying techniques for improving designs and user experience is highly important. The process included following:

- Brainstorming for appropriate tools and techniques to develop the app
- Paper Mockup Design
- Digital Prototyping
- Coding

4.1.5. Extra-curricular activities

Abhiyantrik Technology organizes different refreshing and social events frequently to improve the teamwork and provide refreshment from regular workload. I got an opportunity to be involved in refreshment outing at Nagarkot, learn Piano, cook food, sharing sessions where we shared topics out of the box, etc.

4.2. Challenges

4.2.1. Getting used to the new technologies and tools

As the tools used in the company was new for me, it took me some time to get used to those tools and implement them accordingly.

4.2.2. Develop habit of looking into minor bugs and issues

Within the college projects we become accustomed to look for the major development tasks and overlook the minor bugs and issues. But working in the professional environment required patience to look at the smallest of the issues and bug fixes which took some time to get used to.

Chapter 5: Conclusion

Within the 3 months internship period, I got real life experience of how the tasks are carried in professional work environment. I gained an insight into the IT company, was able to implement the theoretical knowledge I've gained during my Bachelor's degree in real environment and get exposure to corporate culture. Moreover, I got a chance to explore the possible career paths for me and understand where do I fit well. During this period, I not only gained technical knowledge, but also got a chance to improve my communication skills and professional work ethics.