## WEB DEVELOPMENT ON YOUNG MINDS CREATION PRIVATE LIMITED

## **An Internship Report**

## **Submitted By:**

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Nepal Commerce Campus (NCC)

Exam Roll No: 7719 / 16

TU Reg. No: **7-2-25-1177-2016** 

#### **Submitted To:**

Office of the Dean
Faculty of Management
Tribhuvan University

In the partial fulfillment of the requirements for the degree of

Bachelor in Information Management (BIM)

New Baneshwor, Kathmandu May 2021

## **APPROVAL SHEET**

This is to certify that the Internship Report

## **Submitted By:**

Diwash Bhandari

Exam Roll No: - 7719/16

TU Registration No: - 7-2-25-1177-2016

#### **Entitled**

# WEB DEVELOPMENT ON YOUNG MINDS CREATION PRIVATE LIMITED

has been prepared as approved by this campus. This Internship Report is forwarded for an examination

-----

Mr. Janak Prasad Timilsina Deputy Director, BIM Program Nepal Commerce Campus

## INTERNSHIP COMPLETION LETTER

## CERTIFICATE FROM THE SUPERVISOR

This is to certify that the internship project entitled "Web Development on Young Minds Creation Pvt. Ltd" is an academic work based on an internship done by Diwash Bhandari submitted in the partial fulfillment of the degree of the Bachelor of Information Management at the Faculty of Management, Tribhuvan University under my guidance and supervision. To the best of my knowledge, the information presented by her in the internship report has not been submitted earlier.

.....

Signature of the Supervisor

Mr. Janak Prasad Timilsina

Designation: Deputy Director

Date: May 2021

STUDENT DECLARATIONS

I hereby declare that the internship report entitled "Web Development on Young

Minds Creation Pvt. Ltd", submitted to the Faculty of Management, Tribhuvan

University, is an original piece of work under the supervision of Mr. Janak Prasad

Timilsina, deputy director of Bachelor of Information Management, Nepal Commerce

Campus and is submitted in partial fulfillment of the requirements for the award of the

degree of Bachelor of Information Management (BIM). This internship report has not

been submitted to any other university or institution for the award of any degree or

diploma.

.....

Signature:

Diwash Bhandari

BIM 8<sup>th</sup> Semester

Nepal Commerce Campus

Date: May 2021

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Thank You

Sincerely,

Diwash Bhandari

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## LIST OF ABBREVIATIONS

BIM Bachelor of Information Management

IT Information Technology

TU Tribhuvan University

YMC Young Minds Creation

CEO Chief Executive Officer

CV Curriculum Vitae

NTA Nepal Telecommunication Authority

ER-Diagram Entity-Relationships Diagram

SEO Search Engine Optimization

SMO Social Media Optimization

SMM Social Media Marketing

Er Engineer

### **CHAPTER I INTRODUCTION**

#### 1.1 Background

An internship is a wonderful and effective way to connect academic experience with the professional work area. It allows the student to gain valuable exposure to the workplace, provides opportunity for skill development and gives student a competitive edge in the job search. Demand for IT professionals is extensively growing globally and in Nepal. Hence, the Faculty of Management (FOM), Tribhuvan University has developed the BIM program to cater to the need of this trend. BIM is the blend of the management skills and IT knowledge preferably required in the management fields. The mission of Bachelor of Information Management (BIM) program is to develop socially responsive and result oriented IT professionals. The BIM program is designed to equip graduates with the skills and attributes required to become an efficient and effective IT professionals to match up with the fast paced world of today.

An internship is a period of work experience offered by an employer to give students and graduates exposure to the working environment, often within a specific industry, which relates to their field of study. It is a directed, practical learning experience, outside of the normal classroom setting, in which students sharpen skills, gain experience through work on advanced productions, apply classroom learning to professional settings or projects, and learn first-hand how professional companies or organizations operate.

As a part of BIM program, students are required to complete internship with a motive of blending theoretical knowledge to practical experience. I accomplished this internship program at Young Minds Creation Pvt. Ltd, Santinagar, Baneshwor. As stipulated by the University, the duration of internship was three months.

During the internship period I have felt the implication of every subject matter which I learned from BIM Courses and got familiar with it. I was introduced to IT market of Nepal and the professionalism and communication within the organization which leads to choose my future as a Laravel Developer So, I choose to do my internship in my interested field i.e. Laravel Development

#### 1.2 Objective

The main objective of the project report is to gain an insight into web application development at Young Minds Creation Pvt. Ltd. To achieve the main objective, specific objectives are as follows:

- To implement the programming skills to develop web based applications.
- To implement the programming skills to develop web based application.
- To perform web application testing.
- To learn to work with organizational tools and techniques.

#### 1.3 Methodology

#### 1.3.1 Organization Selection

Appropriate selection of organization for the internship is always a crucial task. Being an IT student, I am interested in software development. As an intern, I wanted to be in the organization where my interest will be fully appreciated. So, I select Young Minds Creation Pvt. Ltd. as my internship destination.

While selecting this company for my internship, first I started to search the vacancy in various Job portal as well as company's website. Then I start to drop my CV (Curriculum Vitae) to my list of suitable organization. Through written test and short interview I was selected as a Laravel developer to my interested organization. Young Minds Creation was the good choice as it had provided me a very good and cooperative environment to learn.

#### 1.3.2 Placement

This intern was placed in development section of Young Minds Creation and was given task to develop the web application on Laravel.

During the internship tenure, intern was provided with workspace at the organization and has worked as website developer under the supervision of Er. Narendra Chaudary, with the access to the very information of the organization, its organizational resources, information and equipment's

#### 1.3.3 Duration of Internship

As per the requirement of T.U, BIM students are required to do intern for three months. So I worked in the following routine:

Table 1.1 Time Frame of Internship

Start Date	2 <sup>nd</sup> Dec 2020
End Date	2 <sup>nd</sup> May 2020
Total Duration	3 months
Office Hour	8 hours (10:00 am - 6:00 pm)

#### 1.3.4 Activities performed

During the period of internship, I was assigned various tasks that were reviewed by supervisor. Most regularly our work was evaluated as per our performance and we were guided and suggested to do if there were any deviation in our work. The task contains the problems that need to be solved or list of activities that need to be done along with the design of it. After the task assigned, we start generating overall idea about task and start to code as per the task requirement. The list of activities done are as follows:

- Design the database
- Implementing database
- Design backend
- CRUD operation
- Form validation
- XAMPP
- MySQL for database design
- Visual Studio Code

## CHAPTER II INTRODUCTION OF INDUSTRY

#### 2.1 Introduction to IT industry

Information Technology (IT) has become one of the fastest growing industries in whole world because of which it has caught world attention. IT industry has built up valuable brand equity for itself in the global market. It is the application and telecommunication equipment to store, retrieve, transmit and manipulate data, often in the context of a business or other enterprise.

Information Technology is an industry of tremendous strategic importance. The products and services this industry provides cab help improve productivity and performance as well as the quality of products and services. Many of the significant social changes currently underway, such as the ageing of the population, can be addressed successfully with the appropriate use of information technology.

IT companies provide software as well as IT related services and consultation, database services and content production. In a modern society, IT can be found everywhere; indeed, society could not function without it. Information systems are used to operate and control airplanes, cars, forestry and agricultural machinery, telephones and household appliances. Production processes are also IT-controlled.

Information Technology is also making its way into the service industry. An increasingly large number of services are produced digitally over information networks. This opens up entirely new opportunities and makes the market truly global.

## 2.2 History of IT Industry

The software industry expanded in the early 1960s, after computers were first sold in mass quantities. Universities, government, and business customers created a demand for software. At first, many of the computer programs used were written in-house by full-time staff programmers. Some programs were distributed freely whereas some were to be bought for a certain cost. Later when software development was recognized to be the future, the software/hardware makers started bundling operating systems, systems software and programming environments with their machines to give a complete system.

In the early 21st century another service came to new heights, known as Cloud. Cloud service provides a platform for using hosted service, Software as a Service (SaaS). From the point of view of producers of some proprietary software, SaaS reduces the concerns about unauthorized copying, since it can only be accessed through the Web and no client software is loaded onto the end user's PC (Software as a service). According to market researcher Data Monitor, the size of the worldwide software industry is US\$ 3.7 trillion in 2018 which was US\$ 3.5 trillion in 2017.

Moreover, the ever-dynamic world of Information and Communication Technology (ICT) requires subtle and comprehensive expertise in Computer Technology, Telecommunications and multimedia as well as in the knowledge of networks, Modern world has witnessed the IT revolution due to the advancement of knowledge in these disciplines and these disciplines are closely aligned to one another. IT professionals who can make a difference are keenly sought after by different types of leading organizations throughout the world. So, the prospect of careers in IT is reasonably good.

#### 2.3 Present Situation

The IT sector is an emerging area in Nepal. The Government of Nepal has identified IT and business process outsourcing (BPO) as one of the 5 priority potential export service sectors in the Nepal Trade Integration Strategy (NTIS) 2010. IT has the potential to generate high growth, investment, and significant profits in the coming years and is expected to be one of the most significant growth contributors to the Nepali economy.

Business process outsourcing is a major emerging area in IT in Nepal. These IT entities are often referred to as ITES-BPO (informational technology enable services-business process outsourcing). The existing players in ITES-BPO in the market serve both the domestic and international market. Three types of companies are involved in the ITES-BPO sector: local solution providers focusing on the local market, export-oriented providers (e.g., offshore center), and hybrid providers (both local and export oriented).

An IT Park is being established in Banepa in Kavre District. The total investment in this venture is estimated to be around NPR 270 million (USD 2.70 million). The government is preparing to give a 50% tax subsidy to companies operating in the Park. The Park is expected to develop

software, promote IT-based business and provide services, as well as promote investors in related fields.

#### 2.4 Opportunities and Challenges

Several challenges in IT industry in Nepal though it is one of the industries making progress in Nepal. IT plays a crucial part for the development of a nation; some hindrances make it quite tough too. IT industry in Nepal also creates a great deal of opportunities. This is the only industry that is growing so fast and incessantly in Nepal. Now this is a very useful way to communicate with the global market of information technology. It makes everything faster in the context of developing country like Nepal. In the recent 2-3 years, IT industry has been a boon for the developing country like ours. It has played crucial role to enhance the people life.

#### Some challenges are:

- Network security is by far the greatest concern for many companies.
- Insufficient allocation of Budget.
- Not sufficient manpower for developing IT industry.
- Skilled manpower are outsourcing to other countries.

#### Some opportunities are:

#### > Low development costs

- IT developer costs are, in general, lower in Nepal than in other South Asian countries.
- Nepal has been able to propel itself into the international market to become an alternate offshore outsourcing location to India, Pakistan, and other Asian countries.
- The Nepali time zone is favorable for companies looking to outsource from America and Europe.

#### **>** Business Consolidation

 Many companies have consolidated their business in Nepal and developed a niche market for their products internationally (e.g., Verisk Health, Incessant Rain, Cloud Factory, D2Hawkeye, and Deerwalk).

## > IT Park

- The Government of Nepal has shown serious commitment to establishing an IT Park with tax and other incentives.
- First mover advantages can be reaped by investors interested in this sector.

## CHAPTER III INTRODUCTION OF THE ORGANIZATION

#### 3.1 Introduction of Young Minds Creation Pvt. Ltd

Young Minds started as Outsourcing Company working for clients abroad for smaller to middle sized projects. It started in early 2008 and has been successfully functioning since then. Today, we have served over 1000+ clients from different parts of the world. We have worked for different security agencies, ministries, departments on Nepal as well. We have also worked on middle to larger database driven projects.

Young Minds is a multinational company with our physical offices in Australia, Hong Kong and Nepal. We use business-driven approach that separates us from typical IT companies. We use business-driven approach that separates us from typical IT companies. With a combined experience of over 15 years, we have built a reputation for creating a positive return on investment for our clients.

#### 3.2 Mission, Vision and Objectives of Young Minds Creation

#### **3.2.1 Mission**

• Their mission is to serve for any clients from any parts of the world for any area that we can work on till their satisfaction that ensures business recommendations.

#### **3.2.2** Vision

• Their vision is to seek long-term business relationship and believe the fact that "Our clients are the marketing in-charge for us". And to earn that we need to provide our best quality service and support. If the projects that they deliver them is on time and as par and generates benefits to them, then that is one key-success to an organization.

#### 3.2.3 Objective

Young Minds is a company aimed to provide IT solutions such as website design and development, web application development, software development, IT consultancy, promotion, marketing etc. Young Minds has been providing there services to clients in all over the worlds including Nepal such as United States of America, United Kingdom, Australia, Hong Kong, China, Canada, Malaysia, the Netherlands etc.

## 3.3 Organizational Structure

The organizational structure of Young Minds Creation Pvt. Ltd comprises CEO, COO, Project manager, team management, team developer and team designer.

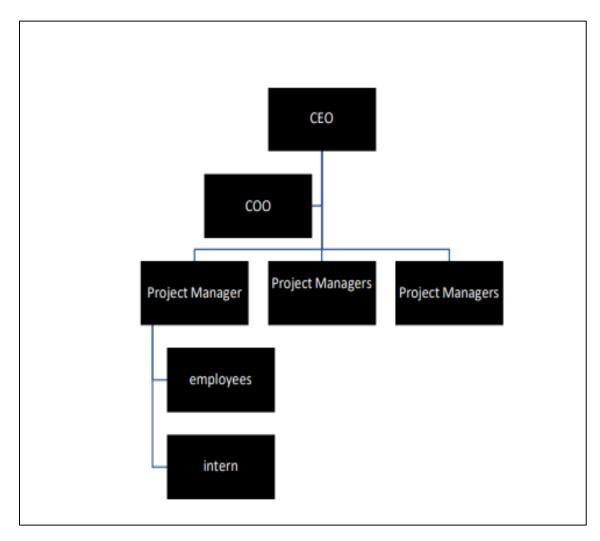


Figure 3.1 Organizational Structure of Young Minds Creation

### 3.4 Major Services

Young Minds Creation Pvt. Ltd. like all other IT company generates its revenue mainly from following services:-

- Web Development
- Automated Browser Testing
- Hardware and IT Support
- IT Audit, IS Security Audit
- IT Training
- Mobile Applications
- Web Hosting
- Software Development
- SEO/SMO/SMM

## 3.5 Challenges and Opportunities

Challenges and opportunities exist in every sector in the world. Similarly, Young Minds Creation Pvt. Ltd also faces various challenges and obstacles in its day to day activities as there are many other similar companies with same motives are running in the market.

Table 3.2 Challenges and Opportunities

Challenges for YMC	Opportunities
Fulfilling clients requirements	Good client relation
Reaching to larger market	Global market recognition
Time management	Low development cost
Competitive market	
Finding talent	

# CHAPTER IV ANALYSIS OF ACTIVITIES DONE / PROBLEM SOLVED

#### 4.1 Introduction of the Activities / Departments / Sections

During the three months of internship in Young Minds Creation Pvt. Ltd interne got a chance to learn new things which helps in developing my programming skill and it also helped to understand how team works to meet client's demands to satisfy them through their works (websites). Engagement in development of website module and also got chance to learn few things about back-end code too i.e. PHP. This helped to gain knowledge and experience about how the website actually works in virtual and in real environment. As involving in building website module, interne used to work in developer's department of the company. Senior Developer of this department Er. Narendra Chaudary, used to give task to build website module and also provide tips and guidance for doing the assigned tasks.

## 4.2 Role of the intern and fitting in the organization structure (responsibilities)

The day interne involved in YMC as an intern, employees of YMC makes familiar with how the job is done. As an intern it's role to perform the task assigned by the staffs which were the part of their job in that company. So interne used to perform the jobs assigned seriously and delivered those jobs to respective staff's at the allotted time. Interne act as a helping hand for them in easy tasks for developing websites during internship period.

We all know that company operates with in certain rules and regulation created by the government and by the company itself to run the activities in smooth manner to meet its client's demand and its main objectives. And to fulfill those objectives company has certain rules that not only staffs but intern also need to follow. During internship period, as of my knowing I think I had followed the rules and regulations strictly, reaching the office at right time, completing the assigned task at allotted time and involving in group work to increase

## 4.3 Experiences in the internship including understanding of system, processes and rationale

During 3 months period of internship in YMC, interne was able to understand what it takes to build the proper system for the customer according to client's requirements. And according to that requirements and the website-packages that had been chosen by the clients how the website was built by dividing the task among different developer at specific time assigned. It might look easy but it's not that easy too. After working in this organization for more than 3 months what interne had got to experienced are as follows:

- Development of skills and knowledge through practical works.
- Got experience of working as a team member.
- Implementation of knowledge that I had received from college in real scenario.
- Development of communication skills by communicating with team member on specific topic and by seeing how project manager used to deal with clients.
- Working in real environment.
- Understanding of the beliefs and behaviours that determine how a company's employees and management interact and handle outside business regular transactions.

# 4.4 Emergence / occurrence of issues, problem or challenges and how these problem were solved / addressed

As it was very first time to get involved as an intern in any organization, the environment here was really new and not familiar for me as an intern. For few days it was quite uneasy to get familiar with people working here and with working environment of this company. There is no doubt that every member involved in this organization tries their best not to bring any sort of problems while interne was involved in this organization. They helped when there was trouble, sorting out some problems. And it is task as web developer to eradicate every problem before system is being used in real environment by its clients. Web-Developer tests the websites from every perspective so that there won't be any hindrance before it is hand over to clients. Some of the challenges and issues that were faced by the developer during the process of websites building are mentioned below:

- The main challenge for the web developer was to fulfil the changing demand of clients while building the products for them.
- Next problem is to complete the websites at the pre-determined time due to various unwanted problems like load-shedding, internet issues, coding issues etc.
- Another problem was to make the website responsive from mobile view perspective.
   Website that might look awesome and more responsive in computer or big screen but the same website might not look that good in small screen or hand-held devices.
- And the next big problem was to understand the coding done by previous developer

Some of the techniques that had been used to solve above mentioned problem are as follows:

- Time management was the problem because of which task assigned by the project manager
  was not submitted on time. Hence setting priorities was vital to complete all task assigned
  in time. Based on priorities set task was used to be completed and then submitted to Project
  Manager.
- Coding done by other developer was quite difficult for me to understand during initial
  phase of internship as time goes on intern was used-to with the code written by other
  developer as other developers of the company taught how proper coding is done. Before
  that intern used to code in manner which were difficult for other to understand.
- After getting familiar with different coding language interne started to build website
  module but then building responsive website was big challenge for me. Using bootstrap
  helped me a lot to build responsive website. Interne used to inspect codes on browser to
  edit code in sublime to make the website responsive which will be mobile friendly.
- What interne had seen in internship period is that web developer must do proper research before starting any new project so that they would be able to convince clients by their works. And they also need code in that manner so that it would be easy for them to add new codes to fulfil the changing demand of the customers.

## 4.5 Basic Functionalities of the System Performed

#### **4.5.1** Use Case

A use case diagram is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.

- Super Admin: Add, Manage User according to the project and its region, also manage report.
- CSE User: He add staff and issues, meeting and also create data needed in the project.
- DSMC User: He approve the data in the project of the CSE User and manage project and create report and view projects.

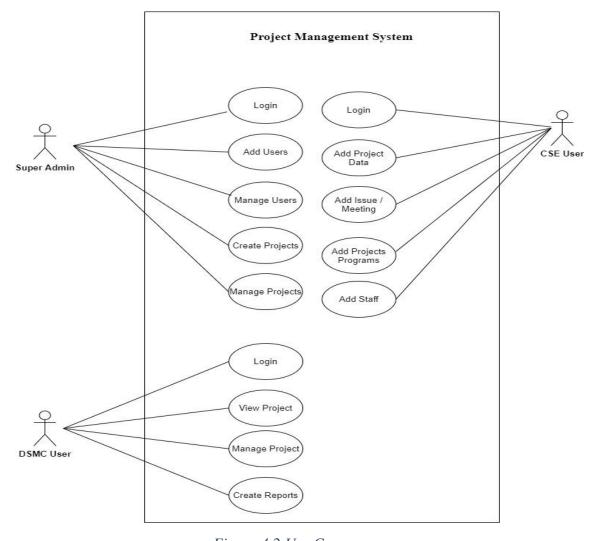


Figure 4.2 Use Case

#### 4.5.2 ER-Diagram

An entity-relationship diagram is data modeling technique that graphically illustrates an information system's entities and the relationship between those entities.

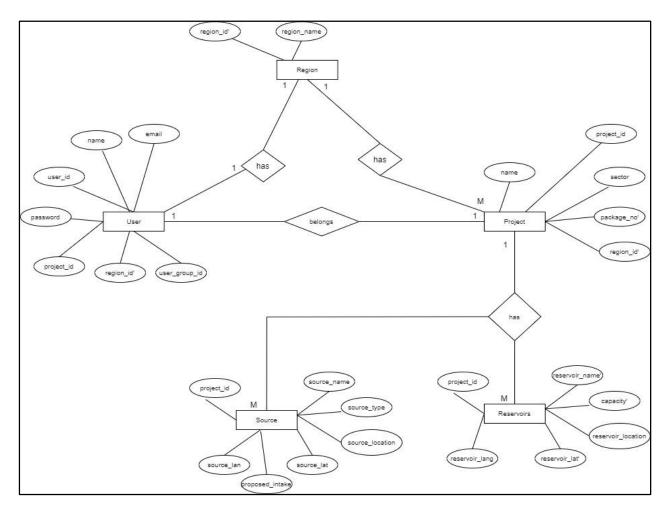


Figure 4.3 ER-Diagram

In the above diagrams five entitles i.e. user, project, sources, reservoirs and region are shown with their attributes and relationship among them.

#### 4.5.3 Activity Diagram

An activity diagram is a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system. This flow can be sequential, branched, or concurrent. Activity diagrams deal with all types of flow control by using different elements such as fork, join, etc. Activity is a particular operation of the system.

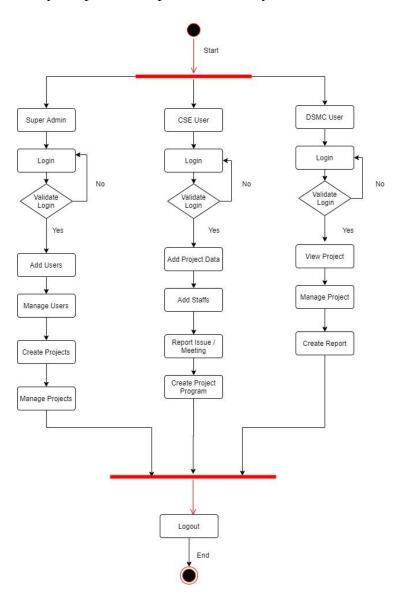


Figure 4.4 Activity Diagram

#### 4.5.4 Sequence Diagram

Sequence diagrams show the interaction between the system and its components. A sequence diagram is an interaction diagram that shows how processes operate with one other and in what order. A sequence diagram shows object interaction arranged in time sequence.

In this system, admin, system, and database are lifelines. The different lines interact with each other in a request-response manner.

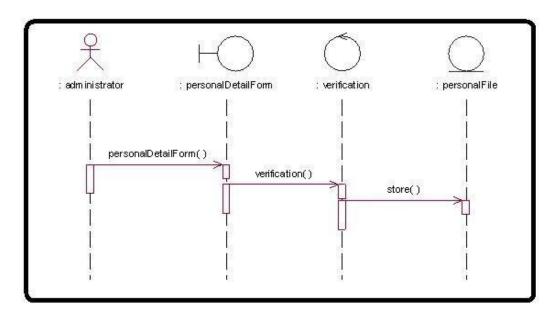


Figure 4.5 Sequence diagram

## **CHAPTER V CONCLUSIONS/ LESSONS LEARNT**

#### 5.1 Conclusion

It was a wonderful experience to work in Young Minds Creation with highly professional group of people. It was a great opportunity to learn about the professional environment and develop a professional attitude. The way one person helped the other and the whole development functioned together showed how a group of professional work together to meet a desired goal. The importance of good leadership among the managers and discipline among the staffs is must for smooth functioning of any organization or any department within it. Similarly good communication skill among all the staffs is also a necessity for the growth of any organization. It will certainly go as a confidence boosting factor in coming days.

#### 5.2 Lesson Learn

While doing internship in Young Minds Creation, it was a great platform for me to learn about the professional environment. It had provided me the opportunities to acquire practical knowledge about the working procedures in the organization at a real time. I learnt how the different phases of software development life cycle goes through. I get to know about various tools and techniques used while developing a software.

Some of the important lessons which I learned during my internship period are:

- Writing clean, commented code make programming easier
- Appropriate communication among team members
- Learn Laravel framework
- Learn about database design
- Dedication to work
- Update according to changing environment and use latest technology

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### **APPENDIX**

