



Daffodil
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Web Application Development at Onirban Bangladesh Technologies

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This Internship report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

Declaration

Declaration

I am Md. Hemayet Hossain Ratul, ID: 183-35-2574, student of Daffodil International University.

I am declaring that I have complete the internship in Onirban Bangladesh Technologies under the supervisor of Mr. Khalid Been Badruzzaman Biplob, Department of software Engineering.

Web Application Development of Onirban Bangladesh Technologies has been a wide range of experience in developing various web-based applications for the partial full-fill of practicum of Bachelor Software Engineering.

I am also declaring that this report has not been made or submitted for any other purpose, presentation by any other except me. This is also declared that there is no plagiarism or materials used in this report from various sources.



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Approval

APPROVAL

This thesis titled on “Web Application Development at Onirban Bangladesh Technologies” submitted by Md. Hemayet Hossain Ratul (ID: 183-35-2574) to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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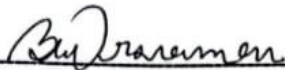
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Acknowledgment

In the name of ALLAH who is the most graceful.

I would like to thank my supervisor Mr. Khalid Been Badruzzaman Biplob, Lecturer, Department of Software Engineering, I am grateful for her expert and valuable guidance.

I would like to express Dr. Imran Mahmud, Professor and Head of the Software Engineering Department for his encouragement.

I would like to thank my mentor who helped me a lot in this internship.

Finally, I would thank my parents who motivate me all the time who I am today.

LETTER OF TRANSMITTAL

To,
Khalid Been Badruzzaman Biplob
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Department of Software Engineering
Daffodil International University

Subject: Internship report submission on Web Development at Onirban Bangladesh Technologies.

It is a great pleasure to have the opportunity to submit my internship report on the experience during my internship period in Web Development at Onirban Bangladesh Technologies.

I have furnished all the things that I have learned during the internship program. I have tried my best to make this report informative and interesting

Yours Truly,

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Chapter 1

Introduction

1.1 Introduction

As a part of the internship of the Undergraduate program of Bachelor of Science in Software Engineering at Daffodil International University, I interned at Onirban Bangladesh Technologies in Web Development Department.

I had an interest in Web Development and the opportunity to work at Onirban Bangladesh Technologies, this report is based on this experience.

1.2 Rational

Internship helps to develop skills and work to gain confidence, problem-solving, professional and more communicable which guide to success

1.3 Background

This report of the internship conducted in Onirban Bangladesh Technologies. I selected Onirban Bangladesh Technologies, which is recognized for its rapid development and efficient project execution by working with industry-standard technologies. I complete my internship as a php developer. The project aimed to develop a prototype to be used as the first stage in building Learning Management System for schools and colleges Making this website as a prototype idea helps me to develop the technologies and is a part of the job The report structure will follow the process of the system development life cycle t begins with background research of the technologies that were used and why they were chosen for me. A feasibility study will be conducted, followed by an analysis of the learning purposes

Then lead to the design, which plans the system and implementation, which describes how it was built. Finally, evaluation of the system was success criteria

1.4 Scope of the study

This report gives challenges that I faced in my workflow. It also provides an idea about how I adapt to the professional environment.

The environment of the communication is impressive and well inspired.

The report is based on Web Application Development. This is important Development related organizations to understand how to build an application and how to test with different criteria in terms of SDLC and so on. It also describes how to develop basic to advanced steps to become a better developer with the help of the SDLC. To start a new programming language to build a framework flow application, I manage to learn PHP, MySQL, Tailwind CSS OOP concepts with the development team and gather developer knowledge and implement with the flow of the development team.

1.5 The Main objective of this Report

The main goals of this report are to full fill the requirements of the Bachelor of Science program and present the knowledge and information that has been achieved during the internship period under the organization.

The other important goals are as follows

To apply to test and develop as much as possible and communicate with the mentor.

To generate an idea and focus on the idea to develop and give output to the mentor.

Design the concept and update the implementation.

Fixed bugs and submit to the development team.

1.6 Summary of Report

In the summary of the report, the mentor chose some workflow and give a short amount of time to gain confidence and implement the solution with the individual.

There will be a performance phase for developing as much as possible with the required time and destination.

Chapter 2

Organization Overview

Onirban Bangladesh Technologies is a technology provider company focused on providing cost-effective, modern state of the art, use full and user friendly ICT Solutions using web based software developments technology and hardware instigations. Onirban Bangladesh Technologies working on various automation technologies those are a perfect mixture of IT, ICT, Electronics, electrical and Microcontroller base technology.

2.1 Company Profile

Onirban Bangladesh Technologies started its journey in 2012. Since then Onirban Bangladesh Technologies is one of the country's leading IT solutions brands dedicatedly working for local and foreign clients. In the past few years, the company has achieved tremendous success in major projects, all thanks to the dedicated employees and personals in charge.

2.2 Service Areas

Software Development

- Mobile Applications

Web Development

- Corporate Web Development
- Single Page Application
- Web Portal Development
- Web Application Development
- Website Re-desing and Development

Domain & Hosting Solutions

E-commerce Consultancy

- Developing Business Plan
- Support the Acquisition of New Tools and Processes
- Enhance Customer Satisfaction
- Performance improvement for Employees
- Increasing Revenue and Sales

Digital Marketing Solutions

- Search Engine Optimization (SEO)
- Franchise SEO
- Local SEO
- AD Marketing
- Content Marketing

Social Media Management

- Client Management
- 24/7 Customer Service
- Order & Sales Management
- Social Media Account Updates

2.3 Vision, Mission and Values

Vision

Satisfying clients in need and gaining their trust of them is the biggest achievement.

Mission

Mission is to give their best regardless of how much profit or reputation the agency is earning from the work.

Values

The values are trust, quality and commitment.

2.4 Declaration

We, Onirban Bangladesh Technologies, hereby declare that all the information provided in this document is correct and authentic. We hereby state and certify that there are no existing orders of any judicial court that prevent either a person or firm or employees the company from entering into and/or signing a contract with any private and public organizations of the country.

2.5 Major Clients

Bangladesh Government and NGOs

Onirban Bangladesh Technologies has provided various IT Enable Services to different Government departments and agencies.

Bangladesh Scouts

Daarkak

Atripz Bangladesh

CHAPTER 3

ACTIVITY

Onirban Bangladesh Technologies treats me as a significant figure as well as a good amount of working environment. Interns get the opportunity to explore their knowledge by gaining and working with the team individually I used to work as an Intern with the Web Development Team of Onirban Bangladesh Technologies.

3.1 Work Load

There is a category based on knowledge, and each intern gets divided individually to perform for being professional and gaining their knowledge. As an intern in the Web department, my first and most responsibility was to understand the concept of WEB, and also help my mentor to make a database and insert a significant amount of data for a group project.

My task was to learn PHP and SQL at the start. After some basics, I was working on some small work like CRUD, login, registration, cache, making a database with SQL, and many more for the backend. For the frontend, I started HTML, CSS, js, bootstrap for building crud and giving the output to the mentor

Each week I had a discussion with the mentor 2-3 times where the code complexity and the algorithm flow.

I also show the topic where I can find a solution and make the implementation.

Chapter 4

Road to Web Application Development

After working some days I started work on web development and learn new technologies for front-end and backend. I started with PHP, MySQL, HTML, and CSS as a beginner

After day by day, I start making small applications such as CRUD and other functionality to enhance my performance.

4.1 Front-end

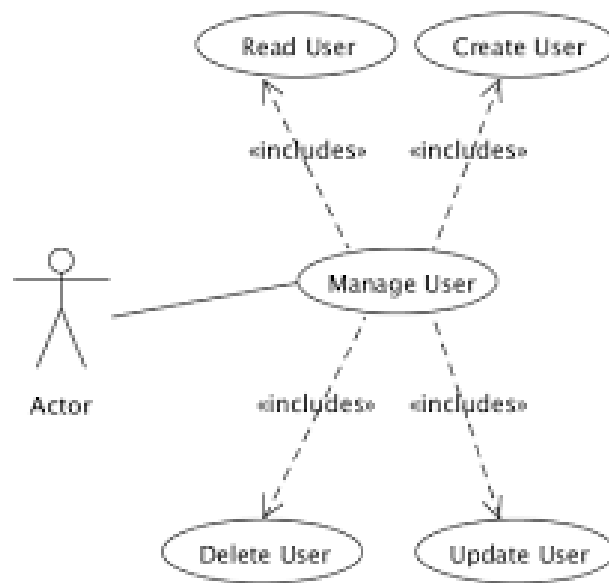
One of my first challenges was to develop my front-end part. I was practiced HTML and CSS. So for that, I have to shift to TailwindCSS and bootstrap to build a utility class based framework TailwindCSS is one of the utility-based which can easy to establish frameworks

4.2 TailwindCSS

TailwindCSS is one of the utility class-based front frameworks that help me to easily code and be responsive to the webpage. So, it helps me a lot in the part of the frontend framework. Tailwind CSS works in a single div to code all the things that flow the webpage easily understandable. It can be a bigger line in a single div but there is no need to be used for CSS and its works are done to the code and maintained the responsive in the webpage. First few days I did not understand the concept of its structure, but day by day, when I use this, it helps me with the frontend basics, as a frontend part, Tailwind is one of the good choices for developing the structure.

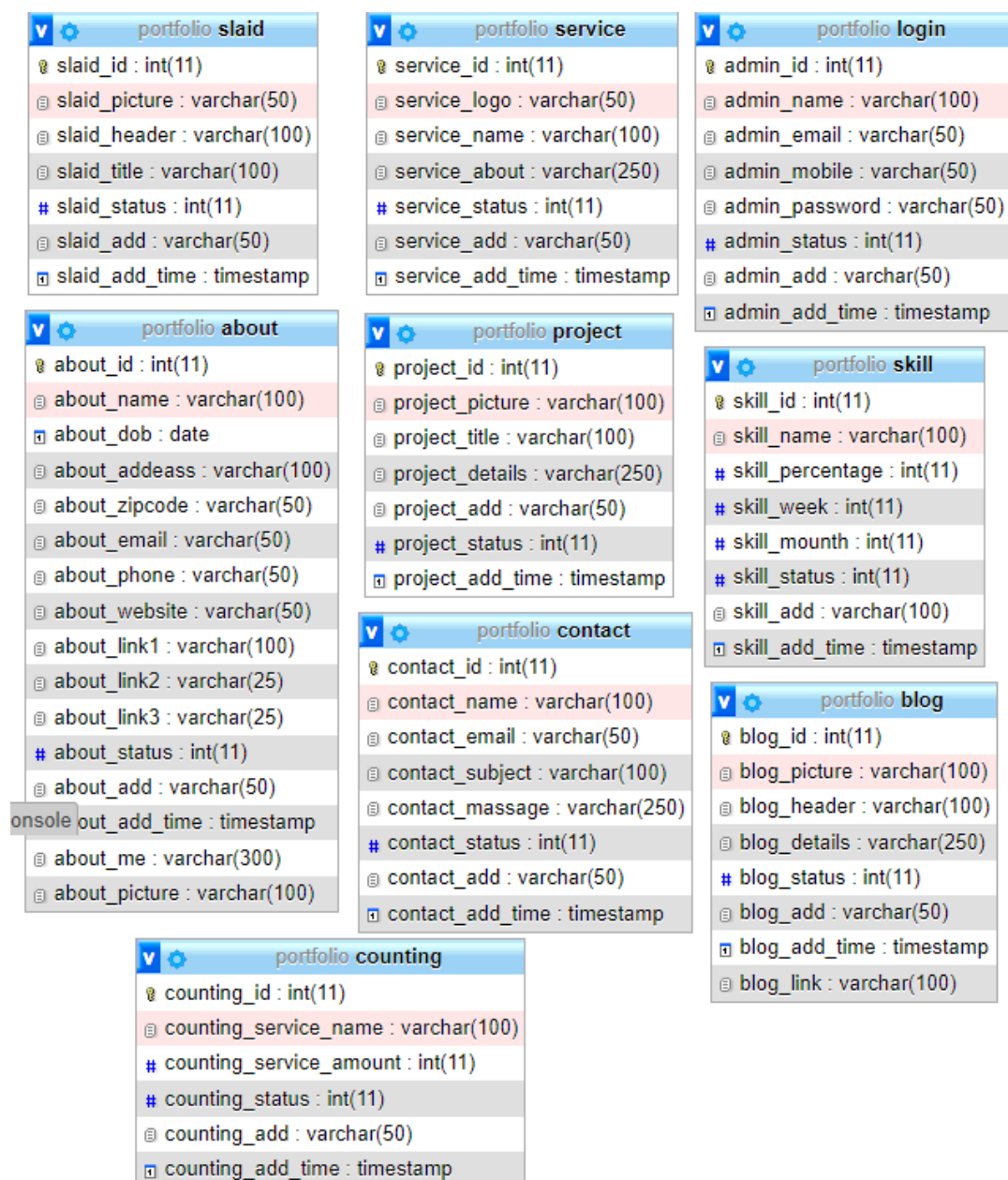
4.3 PHP

As an inter-level on javascript, it is hard to switch to PHP as a backend developer. But PHP is popular since the 90 century, so I learn the basics within 2-3 weeks and started making mini-tasks and to my mentor. Then I was working on the backend concept for the user and admin dashboard and building a crud application with some credentials. Here is the demo with the CRUD diagram



4.4 MySQL

When I started learning PHP. I have to learn the concepts of databases, I was well enough To work with MySQL and I can design databases. So, my mentor gives me CSV data to convert into MySQL, and works with that for official applications. So, after that, he gives me some registration and user-admin iteration work with a database with different tables. I overcome it and go to the next challenges. I design a Database table diagram for my ideas and the diagram below:



Chapter 5

Challenges

Working on Onirban Bangladesh Technologies helps me for better professional experience and set up an experienced career. This helps me to gain confidence and better approaches.

5.1 Academic Preparation

The academic theoretical knowledge helps me to get into the development and quick solving situation.

5.2 Identified

The major study was to follow the right step and develop and solve a quick problem in the term. To gain and gather development architecture program which can build being professional.

5.3 Personal Skills

Technical Skills:

The internship program gain me from being a beginner to an advanced in Web Development.

I was not too much familiar with the terms of these new technologies, But this program help me to prepare and handle concepts and build the real-life application.

The internship program also helps me to learn and build new projects with full-stack technologies. I started with PHP and MySQL and ended with a Laravel developer.

Analytical Skills:

Analytical skills help me to solve quick solutions and approach for next challenges.

My analytical skills more improve during the internship and gain knowledge.

Interpersonal Skills:

My communication skills are well balanced as I got the chance to work with people from different professions. I learned to communicate with many other employees such as HR and other departments.

Chapter 6

Acquired Knowledge

After starting my internship at Onirban Bangladesh Technologies, I was new to the environment. But I was so focused and maintain that I establish to work with the mentor. Some few days I was struggling, but with the help of my mentor, I overcome the environment.

6.1 Implications to University's Internship Program

I would like to express my gratitude to the Faculty of Science and Information Technology to keep an internship in the curriculum of the graduation program and give me a scope of tasting the flavor of Software oriented tasks and my interest. I also thank all the Faculty of Science and Information Technology and Office of placement and Alumni, DIU to arrange an opportunity for choosing interest and completing an internship there.

6.2 Effects on Personal Skills

My first professional life through internship has benefited me a lot. When I started to learn Development, it was too hard for me. I spend more hours but could not find the proper way. But when I started work with the mentor, things get clear to me and I was faith in me, All of them are corporative and problem-solving employees. The workflow was impressive so that I was very active well managed.

6.3 Ability to learn

Computer made me a very professional employee cause of its attraction. Changes can make humans ordinary. I am optimistic about my ability to learn computer software and it becomes my passion.

6.4 Dependability

When I start learning and working with them, they started believing me, and day by day the mentor pleased my work. So he give me some small projects and also do some individual project backend related. For all these, I started making my ideas and giving feedback to my mentor which helps me to gain my development sector. I also hope that this dependable will result in a long-term connection between Onirban Bangladesh Technologies and DIU.

6.5 Initiative

When I faced any problem, I tried to solve it myself and if I do not solve it, the mentor helps me a lot of it and also give me a correct way whom it can done in a short period. I hope that this sort of help can gain my knowledge

6.6 Judgment

It cannot describe within a day or a month. The quality and focus can make the predict how it can be built up. As I was making and testing some projects, I tried my best to develop my skills on judgment.

Chapter 7

Concluding Statements

7.1 Summary

Onirban Bangladesh Technologies is one of the most software development companies. They ensure that their customer is satisfied and they provide world class services. I have worked with Web Development at Onirban Bangladesh Technologies.

7.2 Recommendations for Future Strategic Actions

This experience gains me a career practically as a Full Stack Web Develop which can be valuable in future jobs as a recommendation.

7.3 Organization

Before going to Onirban Bangladesh Technologies, I did not know how to communicate professionally and cannot manage the workflow. But the mentor of the organization helped me a lot and I overcome it. I had a great time with the mentor while doing home office at the time of corona. Therefore, everyone is well good to be an employee of Onirban Bangladesh Technologies

7.4 University

An internship helps a student being professionals. It can push a student's career to create a roadmap of how his/her career. I would like to convey my thanks to the Institute of Information Technology for providing me with an opportunity to prepare myself for the professional field. I now look forward to facing the upcoming challenges of the world.

7.5 Professional

Internships are very useful to interns themselves as a professional way to make their knowledge more sustainable and more working field employee. Some particular challenges can make their work consistently and through being professional.

In this world of today where competition is going more and more for professionals, I think it can help the student a sea of information.

The Web Developer must understand the best practices for established and I learned how to work with experts in different fields of computing.

7.6 Reference

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