Department of Computer Science & Engineering
SOUTHEAST UNIVERSITY

Internship Report On

Web Development

A dissertation submitted to the Southeast University in partial fulfillment of the requirements for the degree of B.Sc. in Computer Science & Engineering.

Submitted by

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Batch: 40th

Supervised by

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Letter of Transmittal

January 22, 2020
The Chairman,
Department of Computer Science & Engineering, Southeast University, Banani, Dhaka.
Through: Supervisor, Abdul Mueez

Subject: Submission of internship report on "Web Development"

I am MD Riajul Islam Riaj, the student of Computer Science & Engineering Department at Southeast University. It is indeed a great pleasure to have the opportunity to submit my internship report on the experience gained during my internship at Pico Ant Technology. I have prepared this report in accordance with the instructions given by my supervisor Abdul Mueez, Lecturer of the Department of CSE at Southeast University. I expect this report to be informative.

Working in Pico Ant Technology was an inspiring and learning experience for me. I hope this knowledge will facilitate me a lot in my future career endeavors. With my limited knowledge, I have tried my best to work with other professionals and make the report worthwhile.

I sincerely hope that this report meets your approval and demonstrate my ability to present internship reports.

Thank you.

Sincerely yours,

Supervisor

MD Riajul Islam Riaj
ID: 2015100000066
Batch: 40th

Abdul Mueez
Lecturer of
Department of CSE
Southeast University

Certificate

This is to certify that the report titled "**Web Development"** has been submitted by **MD Riajul Islam Riaj** partial fulfillment of the requirement for the award of degree in the Department of Computer Science and Engineering, Southeast University. This paper has been carried out under my guidance and is a record of the work carried out successfully. I wish him all the success in his future professional career.

Supervisor:	Co-Supervisor:
……..	……
Abdul Mueez Lecturer of Department of CSE	Md. Sarwar Alam Team Leader Pico Ant Technology

Executive Summary

This report is prepared to explain what I have done and learned during my internship period at Pico Ant Technology. As the main purpose of the internship is to learn by working in practical environment and to apply the knowledge acquired during the studies in real world scenario in order to tackle the problems using the knowledge and skill learned during the academic process. The first part of the report shows the origin of the report, my job responsibility, the objective of the report and the limitation that I have faced when I was working on this report. The second part of the report provides a brief introduction of Pico Ant Technology. Third part is about the Web Development. I also analyses the client satisfaction of the client of Pico Ant Technology. Finally I have find out some drawbacks about Pico Ant Technology according to my perspective and have tried to give some recommendation.

Acknowledgement

The sincerest thanks and gratitude to the almighty who has eased the difficulty and cleared the ambiguity to fulfill this achievement. Firstly, I would like to say that it has been my honor to be a student of Abdul Mueez, Lecturer, Department of CSE, Southeast University, and also I would like to thank him as my final year intern supervisor for the guidance, support and encouragement he provided to me throughout my internship. I also would like to take a moment to thank my co-supervisor for his support and guidance he showed me till the very end.
Last but not least, I would take this opportunity to thank my parents, family members and friends for the constant encouragement and support they showed me throughout my entire period as a university student which helped me to keep.

TABLE OF CONTENT

Letter Of Transmittal **I**
Certificate **Ii**
Executive summery **III**
Acknowledgement **IV**
List Of Figure **VI**

Chapter 1
Introduction 1
1.1 Origin of the report..... 2
1.2 Mission and Vision..... 2
1.3 Objective of the report..... 2
1.4 Scope and Methodology..... 3
1.5 Learning Outcome..... 3

Chapter 2
Company Overview 4
2.1 Nature of the company..... 5
2.2 Service of Pico Ant Technology..... 5
2.3 Team Roles and Work Flow..... 5
2.4 Social Media Marketing of Pico Ant Technology..... 6

Chapter 3
Details Of Internship work 7
3.1 About PHP, HTML, CSS, SQL Server, JavaScript, WordPress.. 7-19

Chapter 4
Key Learnings 20

Chapter 5
Limitations and Recommendations 21

Chapter 6
Conclusion 22
Glossary 22
Bibliographic 22-23

LIST OF FIGURE

Figure 3.1 Login Page..... 9
Figure 3.2 Dashboard..... 9
Figure 3.3 Teacher..... 10
Figure 3.4 Student..... 10
Figure 3.5 Parents..... 11
Figure 3.6 Class..... 11
Figure 3.7 Subject..... 12
Figure 3.8 Subject mark field..... 12
Figure 3.9 Marks..... 13
Figure 3.10 Exams..... 13
Figure 3.11 Students Attendance..... 14
Figure 3.12 Teacher Attendance 14
Figure 3.13 Events..... 15
Figure 3.14 Transports..... 15
Figure 3.15 Class Hours..... 16
Figure 3.16 Leave Calendars 16

Figure 3.17 Home Page..... 17
Figure 3.18 Scrolled Home Page..... 17
Figure 3.19 Scrolled Home Page..... 18
Figure 3.20 Scrolled Home Page..... 18
Figure 3.21 Scrolled Home Page..... 19
Figure 3.22 Scrolled Home Page..... 19

Chapter 1

Introduction

This is argued that there is a tremendous prospect for the country into industrialized economy hence the development of the IT division. Because, Bangladesh has high potential to become a huge source of skilled human resource with its cultural adoption capability, English language skills, Analytic capability and a large number of educated and energetic youths with bright aptitude, good qualities and natural ability in software development. A recent study shows that the wage rate of IT professionals in Bangladesh is almost half of the Indian IT professionals. However, the IT sector has not yet been growing much as much expected. Now a day Bangladesh has obtained millions of USD by exporting software in various countries. The IT sector mainly concentrates in Dhaka, the capital of Bangladesh. There is only one IT clusters namely IT incubator center that was established November 2010, whereas now a day there around 500 IT firms are doing their business. Software and IT service industry in Bangladesh has crossed a log road over a decades. It has matured. The industry no more remains at the sideline. It joined the mainstream. In the last part of CSE (Computer Science and Engineering) program, it is mandatory to do a three month internship from any alleged organization and based on this we are supposed to submit a report to our supervisor in University. The objective of this internship report is to explore the theoretical knowledge about the web development and practical knowledge. With the blessing of Almighty Allah I got the chance to do my internship program at Pico Ant Technology which is a startup IT based company.

1.1 Origin of the report

I have been assigned to this report by my course (CSE4056) instructor Abdul Mueez. My report is based on web development. The internship program helps to learn web development and cope up with the environment in such a way like trained employees. I was started my internship at Pico Ant Technology from September 15, 2019 and finished on December 20, 2019

1.2 Mission and Vision

As Pico Ant Technology is a small IT company, they are not set so many mission and vision. The mission of the company is to provide the high quality service to the client. The vision of the company is to be a leading IT company in the industry.

1.3 Objective of the report

There are huge difference between reality and bookish knowledge. Internship program is important to develop our working knowledge by relating it to the theoretical knowledge that we learned in the completion of CSE program. Besides, it is mandatory to do the internship program for completion our graduation program from Southeast University. The main objective of the report is to know how the working procedure in real world. The main objective of the report.

a. Internship helps to understand the organization atmosphere.
b. It enables us to relate the theoretical knowledge with practical knowledge
c. It gives an intern the first time working experience, is to be a leading IT company in this industry.

After completing this work successfully, I have learned how to plan, organize and monitor an IT work as individual, and gained experience that can be basis for future tasks that will be assigned. I also learned how to work in communication with a steering group which is considered to be the decision maker and this is very important when thinking to work in real life.

1.4 Scope and Methodology

Here I am sharing my personal experience that how the procedure of client handling and delivery their work.

- **Understanding needs and plans:** To understand a project I have to asked many things to the client. What kinds of thinks actually they want. I have to clear all of the things so that I won't face any problem in middle of the project.
- **About platform knowledge:** It is more important things for me to know which platform actually the client and the company want to complete the project.
- **About deadline issue:** Deadline is the most important for doing a project. So it should be fixed up by meeting with the client.
- **Project proposal:** Submit the project proposal to the client.
- **Start the project:** Than start to complete the project.

After checking all developing, testing issue than company hand over the whole project work within deadline

1.5 Learning Outcome

The internship program is being organized basically for learning the real corporate experience. From my working experience with Pico Ant Technology I have learned a lot of things from them. As an intern, I believed I have achieved so many things from Pico Ant Technology that will help me to build up my carrier. It is a great opportunity for me to work with Pico Ant Technology.

Chapter 2

Company Overview

Pico Ant Technology has the pleasure to express as an absolute web development company in Dhaka Bangladesh. It is doing this business since more than 3 years. It has already achieved reputation by the completion of several successful projects. Moreover, Pico Ant Technology is very prominent to their professional approach to work and meanwhile achieved certification for their support and services. It has grown with time and is being updating itself with the ever changing scenario of the technology enhancement and always keeps a focus on updated technology and tools. The growth of the organization followed the path of getting used to rising Web development needs and solution services in any arena of domestic corporate conglomerate which is the integral part of our development planning. Pico Ant Technology survived the test of time and earned experience, institutional strength and a management system which is perfect to understand and interact with any kind of client including government, bilateral even multilateral and also non-governmental bodies and agencies to understand the specific IT needs specially Web functionality and Management Information System (MIS) and contribute to development approaches, implementation and priorities through associating ourselves once and for all with the stages and method of need-driven spheres of IT innovation activities.

2.1 Nature of the company

Pico Ant Technology is specialized for IT Services like Web design and development, Mobile Application, Digital Marketing, Domain and Hosting.

2.2 Service of PICO ANT TECHNOLOGY

In today's world, each association depends on innovation to keep business tasks associated, drive income and support ever developing client requests. Without a doubt, Information Technology (IT) is the way to oversee innovation and it traverses wide assortment of zones that incorporate however are not restricted to things, for example, PC programming, data frameworks, programming languages, database administration frameworks, organizing and so forth. Staying with these in minds our company gives an amazing count of administrations and arrangements.

Pico Ant Technology gives the accompanying administrations that are portrayed beneath:

- Website Development
- Digital marketing Service
- Logo Design Service
- Email Marketing Service

2.3 Team roles and work flow

They emphasize on keeping commitments and up to the mark satisfaction of their clients, thus they believe transparency is a key factory. A proper collaboration and cooperation with their clients about the tasks and its progress is necessary. They are obliged to share our work flow and team rules with our clients to maximize our effort together. They assign a community manager from their team that monitor the whole work. A key contact person or KCP is a person from client's end who would provide support and feedback.

2.4 Social media marketing of Pico Ant Technology

Digital marketing is now a mandatory element for the development of any business. Pico Ant Technology gives their clients a better solution and wide range of promotion model. They mainly co-operate with six-month contract with their client. Their engineering activities are.

- Regular consultation over phone and online.
- Weakly face to face consultation on the basis of report analysis.
- Analyzing, improving and reporting social metrics to provide insights to our client and ROI.
- Branded content from business itself.
- Monitor brand and brand reputation throughout social media and search engine.

Chapter 3

Details of Internship Work

The main objective of the internship is to gain the experience of real professional working environment. Students also attain to relocate their acquire knowledge from the program. The opportunity to live and work in there shifted with perspective and pushed to think about the local and global impacts. I have gained a lot of real experience from my working place at Pico Ant Technology. The experience was both deeply disconcerting and highly inspirational. The maximum of my intern period is learning PHP, HTML, CSS and SQL Server.

3.1 About PHP, HTML, CSS and SQL Server

PHP: PHP stands for Hypertext Preprocessor. It's an open source, server-side, scripting language used for the development of web applications. By scripting language, we mean a program that is script-based (lines of code) written for the automation of tasks.

HTML: Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.

CSS: CSS is a plain text file format used for formatting content on web pages. CSS stands for Cascading Style Sheet and is used by web pages to help keep information in the proper display format. CSS files can help define font, size, color, spacing, border and location of HTML information on a web page, and can also be used to create a continuous look throughout multiple pages of a website.

SQL Server: Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications—which may run either on the same computer or on another computer across a network.

JavaScript (JS): **JavaScript** (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache Couch-DB and Adobe Acrobat. JavaScript is a prototype-based, multi-paradigm, single-threaded, dynamic language, supporting object-oriented, imperative, and declarative (e.g. functional programming) styles.

WordPress: WordPress is a content management system based on PHP and MySQL that is usually used with the MySQL or Maria-DB database servers but can also use the SQLite database engine. Features include a plugin architecture and a template system, referred to inside WordPress as Themes.

Here some of my internship work:

First Project School management system.

Figure: 3.1 (Login Page)

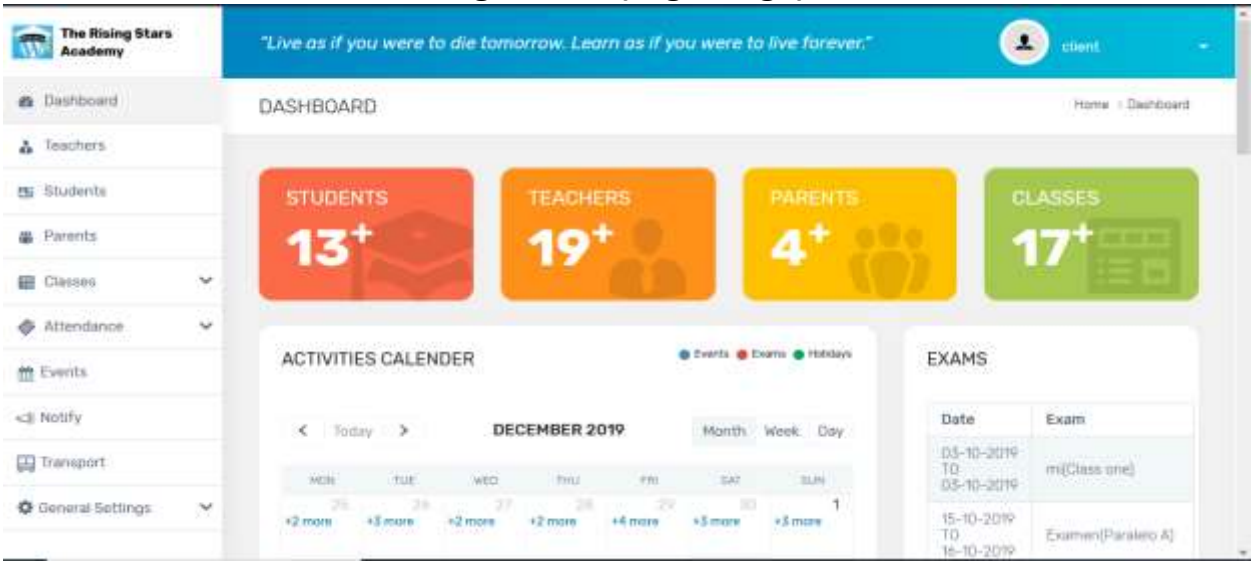

Figure: 3.2 (Dashboard)

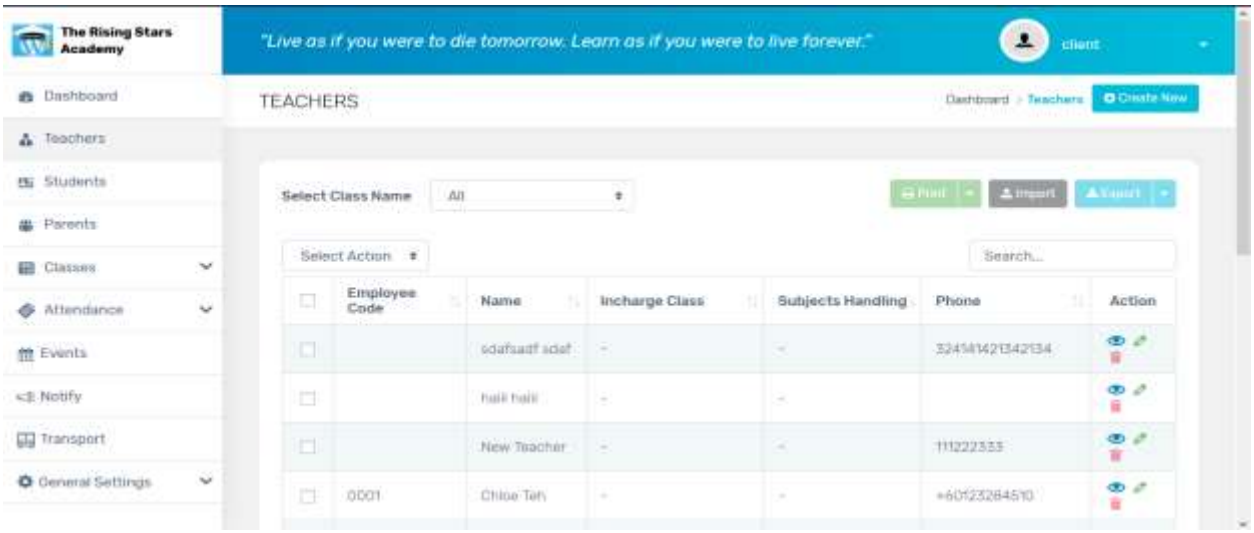

Figure: 3.3 (Student)

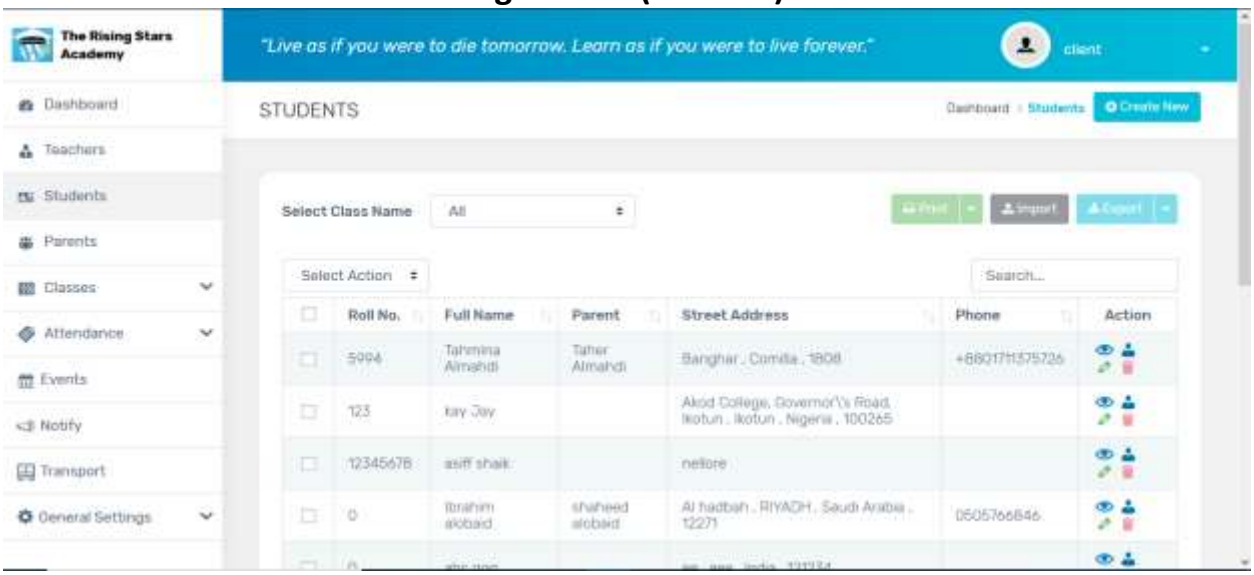

Figure: 3.4(Teacher)

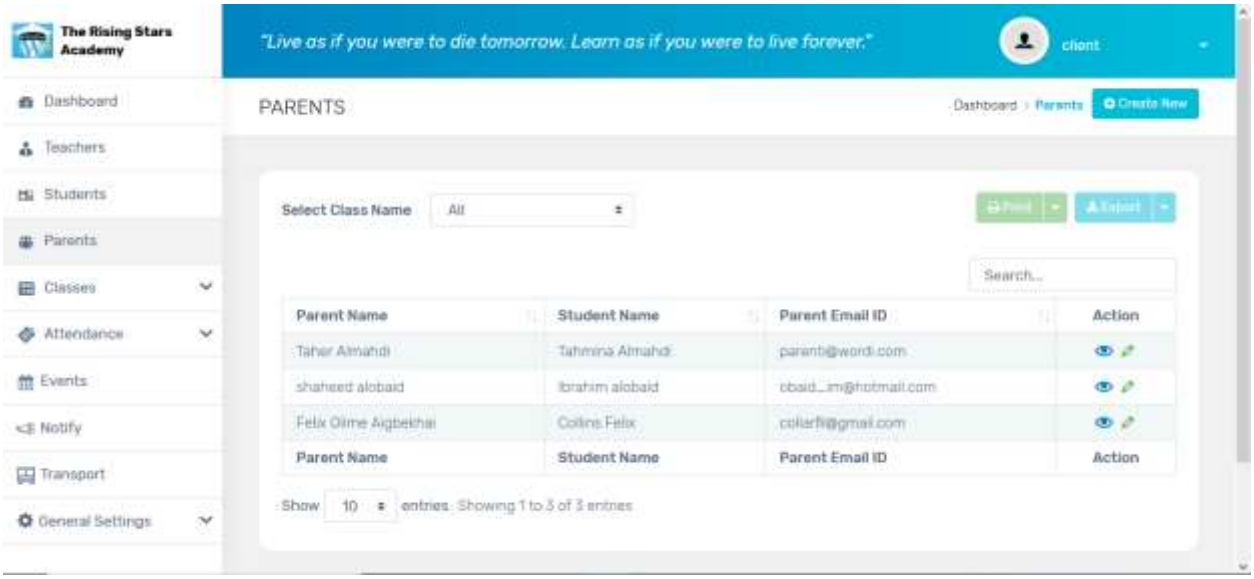

Figure: 3.5 (Parents)

Figure: 3.6 (Class)

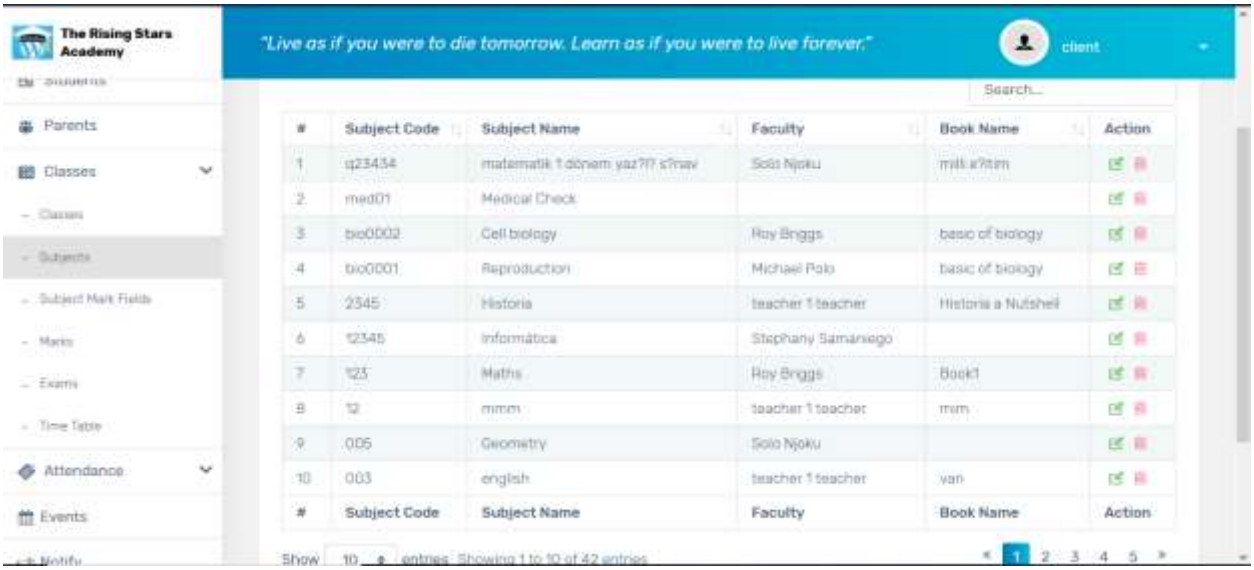

Figure: 3.7 (Subject)

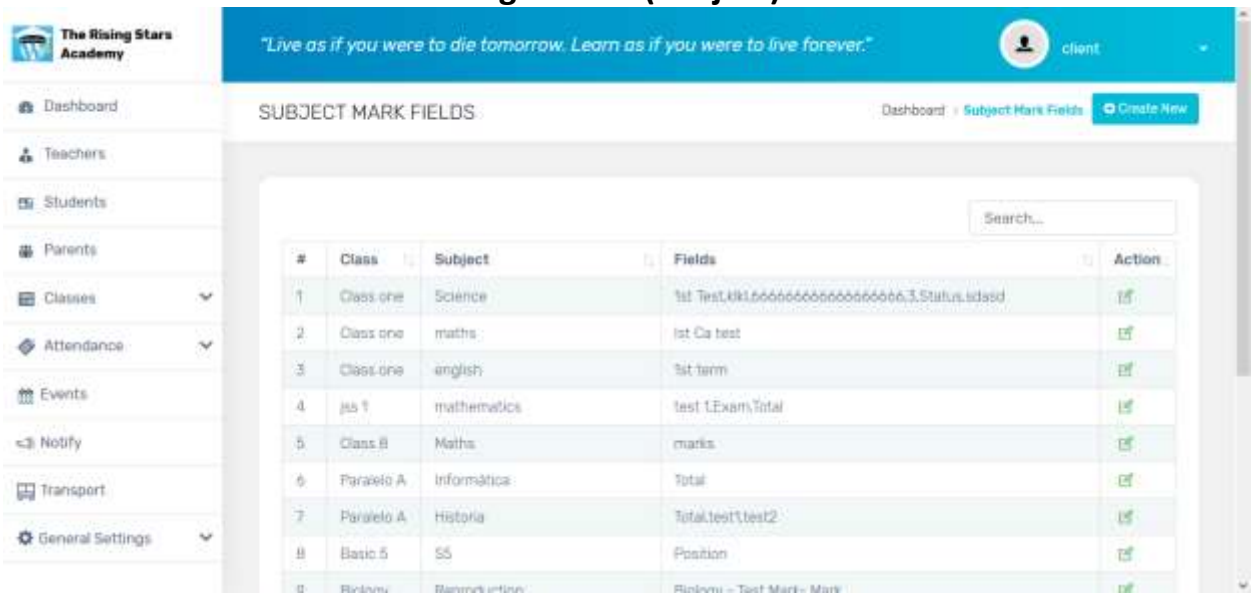

Figure: 3.8 (Subject Mark)

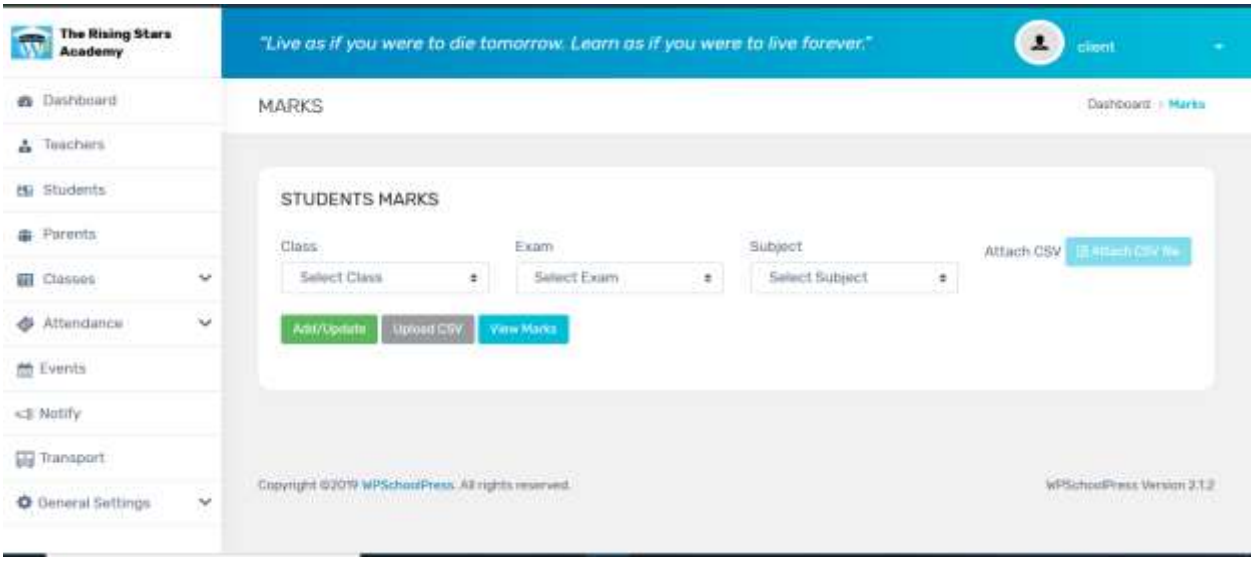

Figure: 3.9 (Marks)

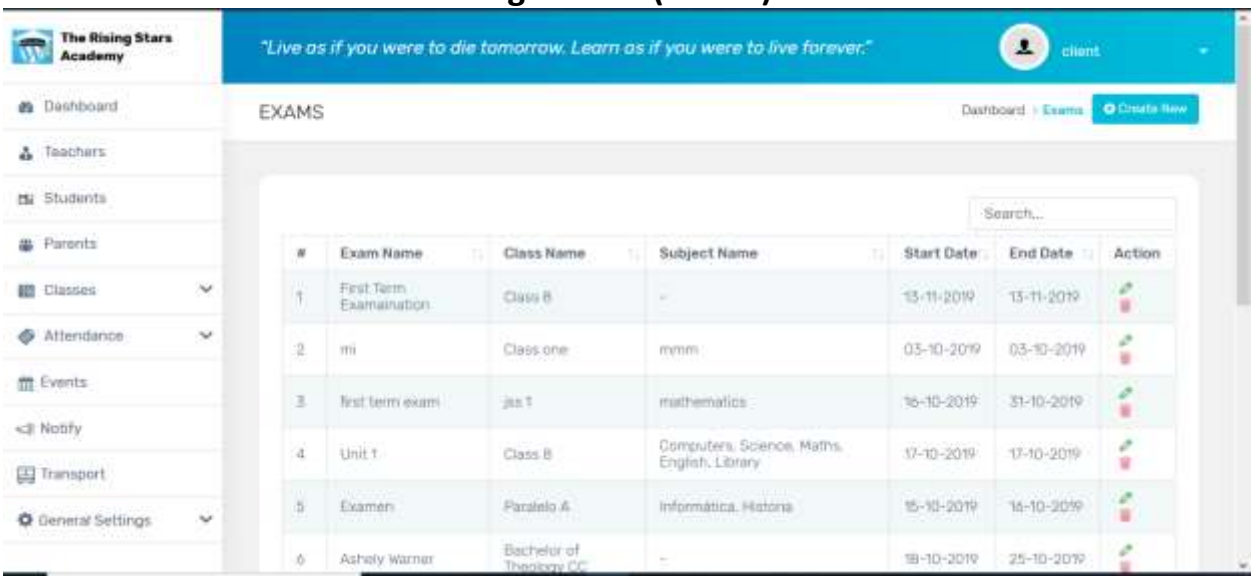

Figure: 3.10 (Exams)

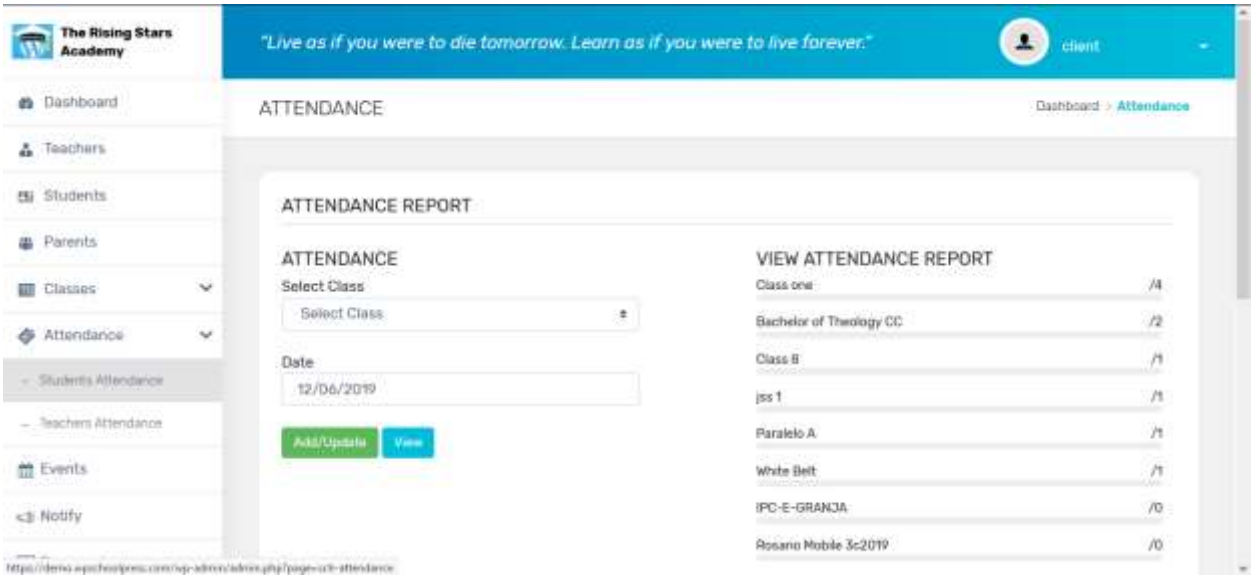

Figure: 3.11 (Students Attendance)

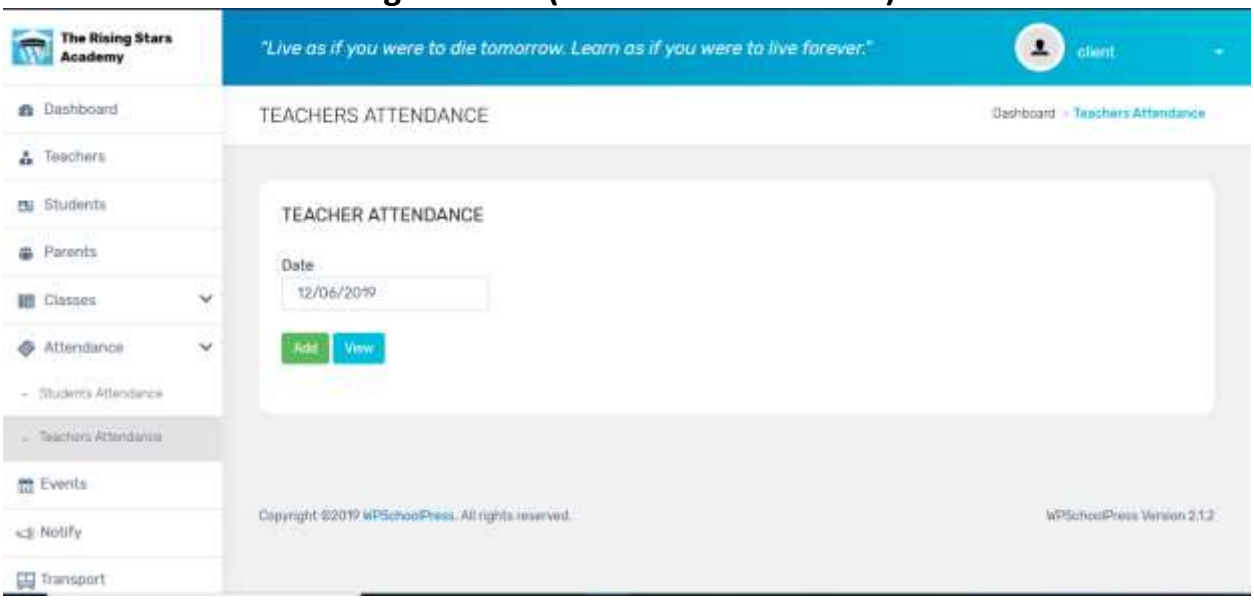

Figure: 3.12(Teacher Attendance)

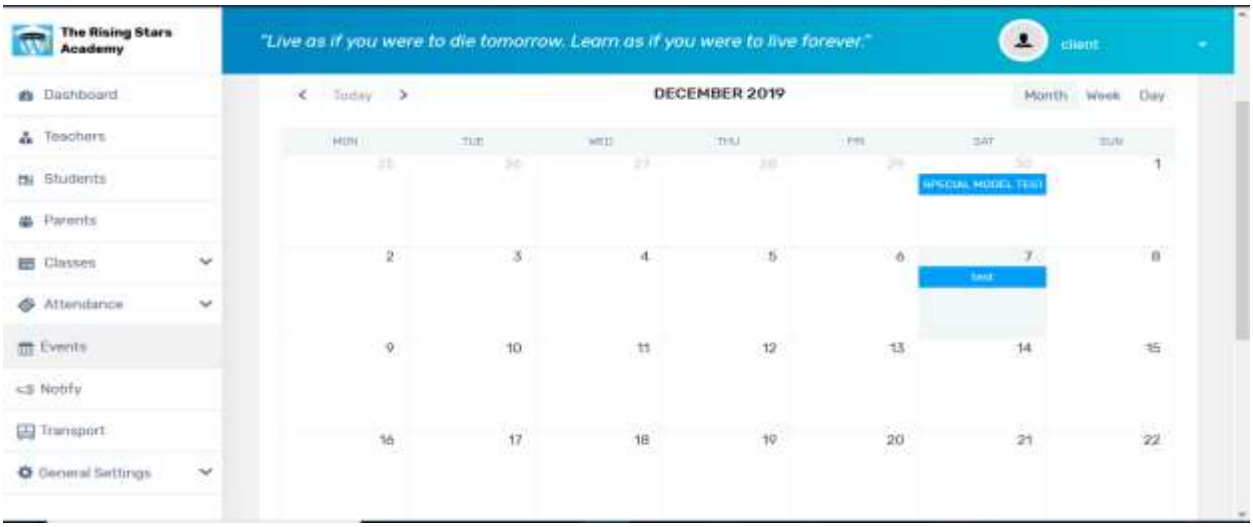

Figure: 3.13 (Events)

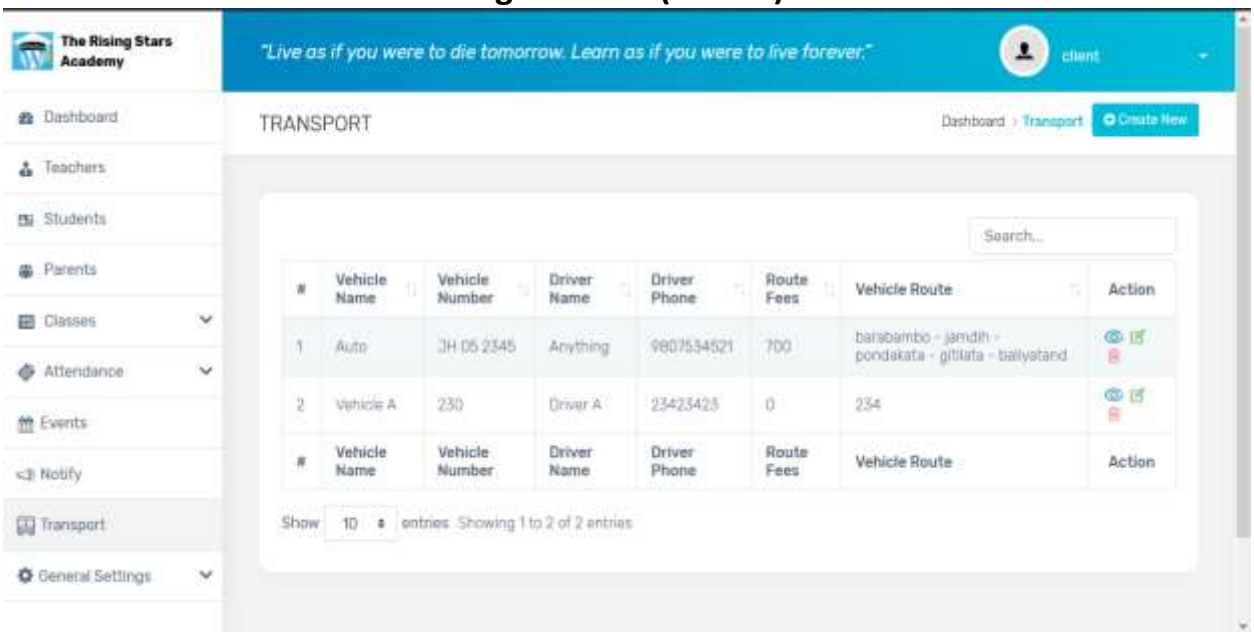

Figure: 3.14 (Transport)

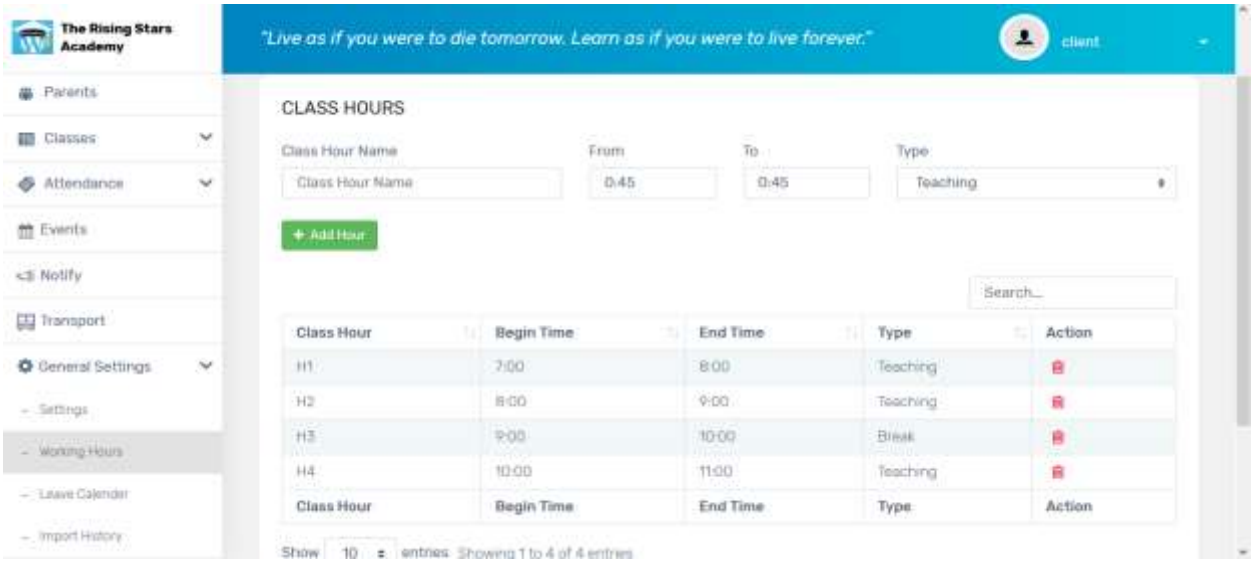

Figure: 3.15 Class Hours)

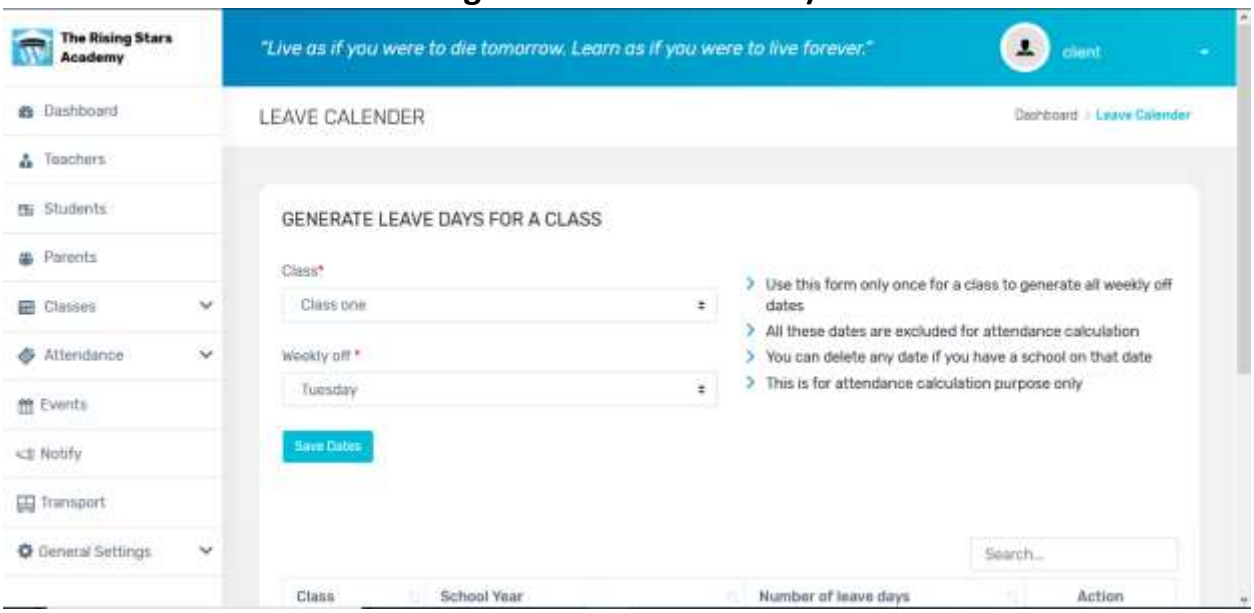

Figure: 3.16 (Leave Calender)

Second Project Affiliate Website by WordPress.

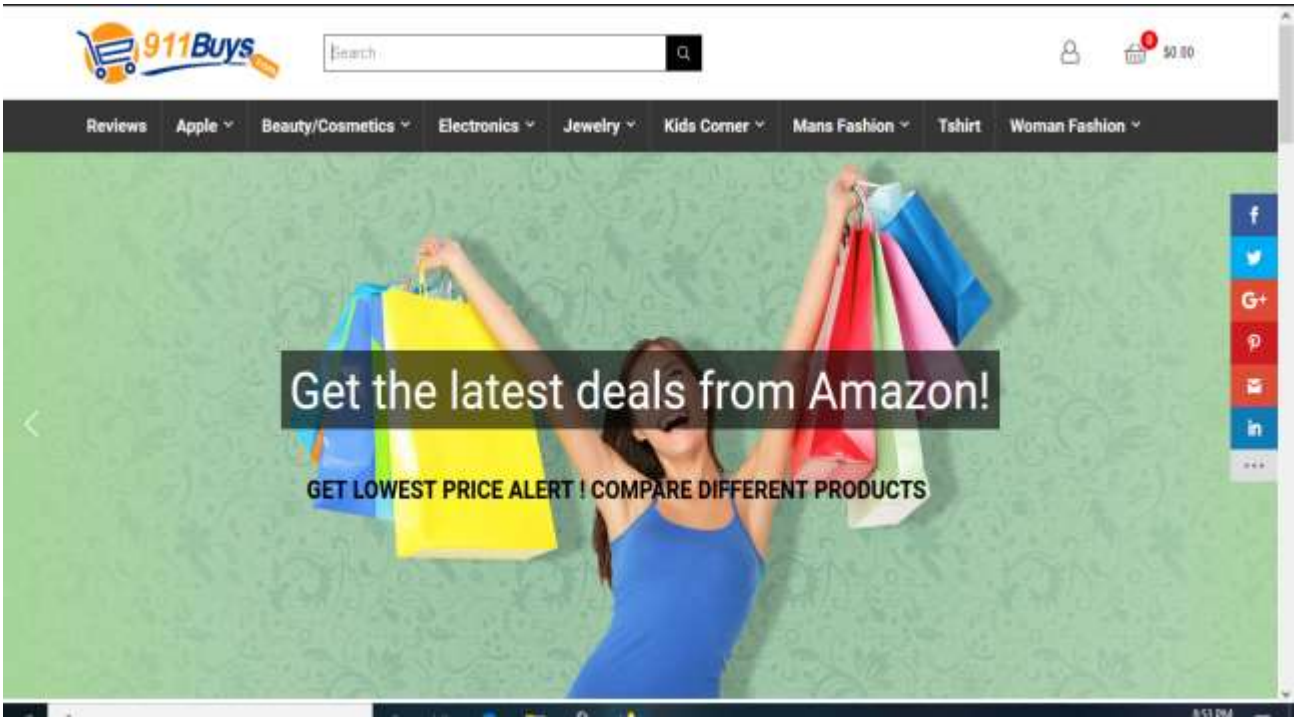

Figure: 3.17 (Home Page)

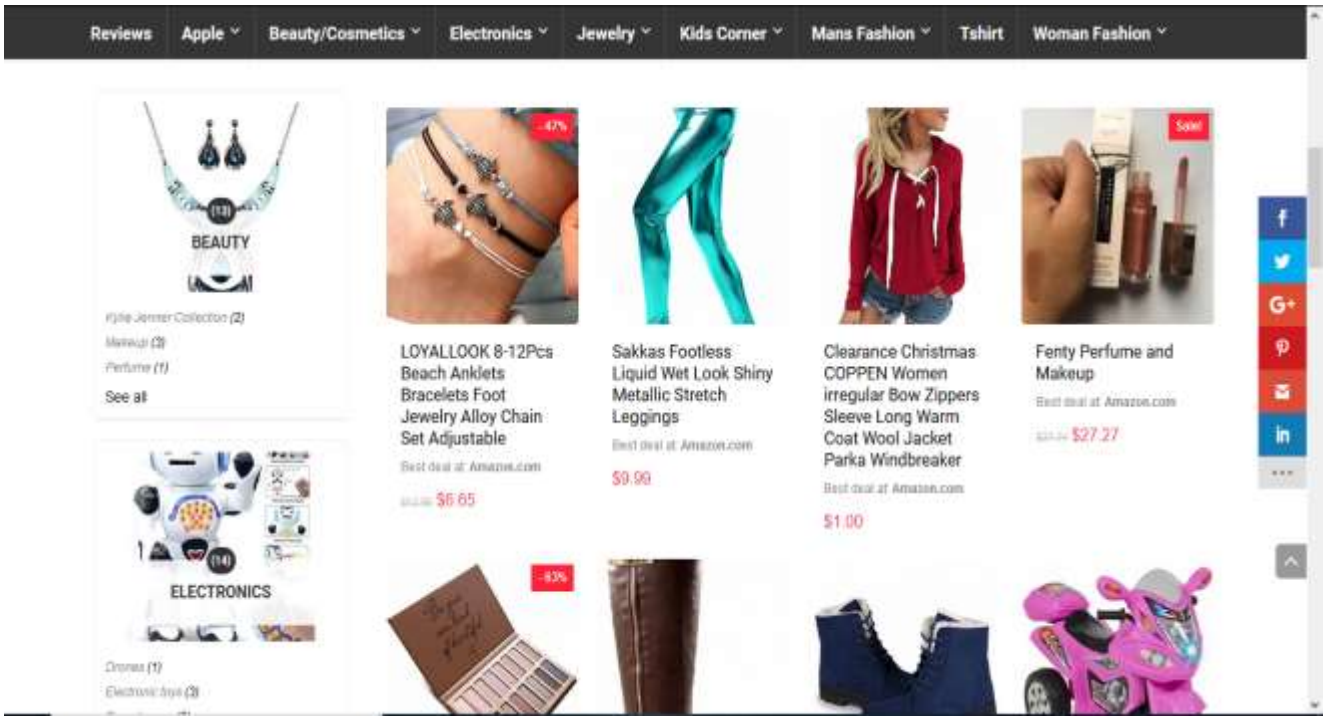

Figure: 3.18 (Scrolled Home Page)

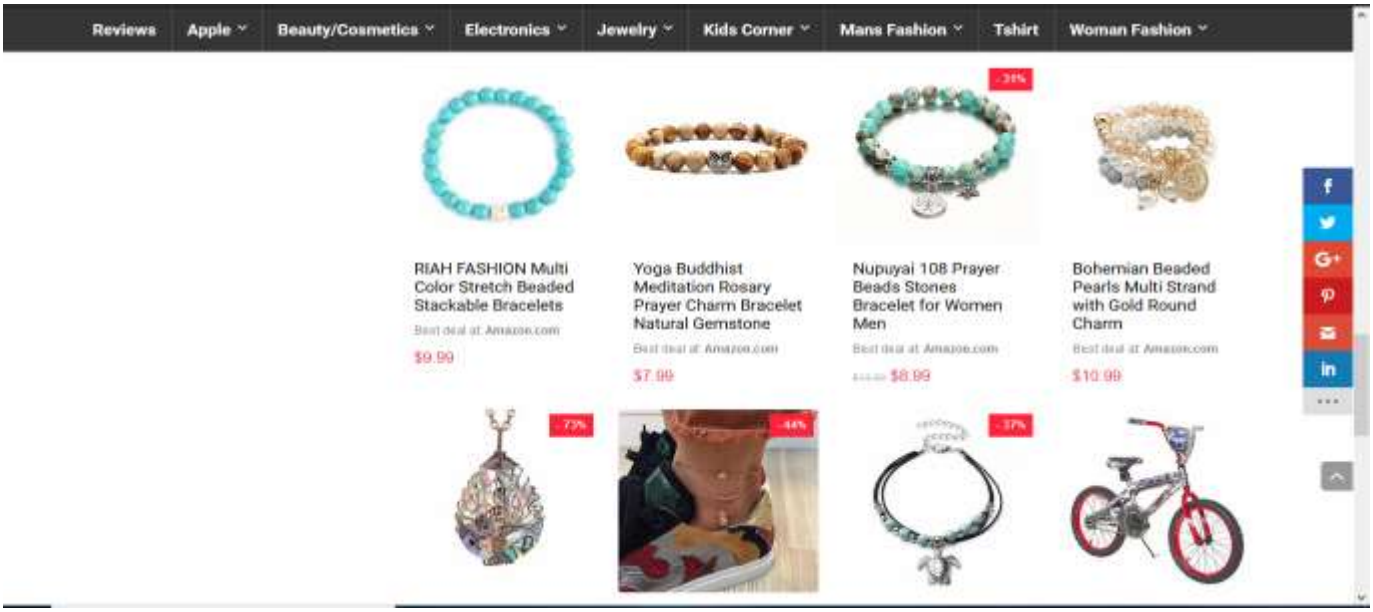

Figure: 3.19 (Scrolled Home Page)

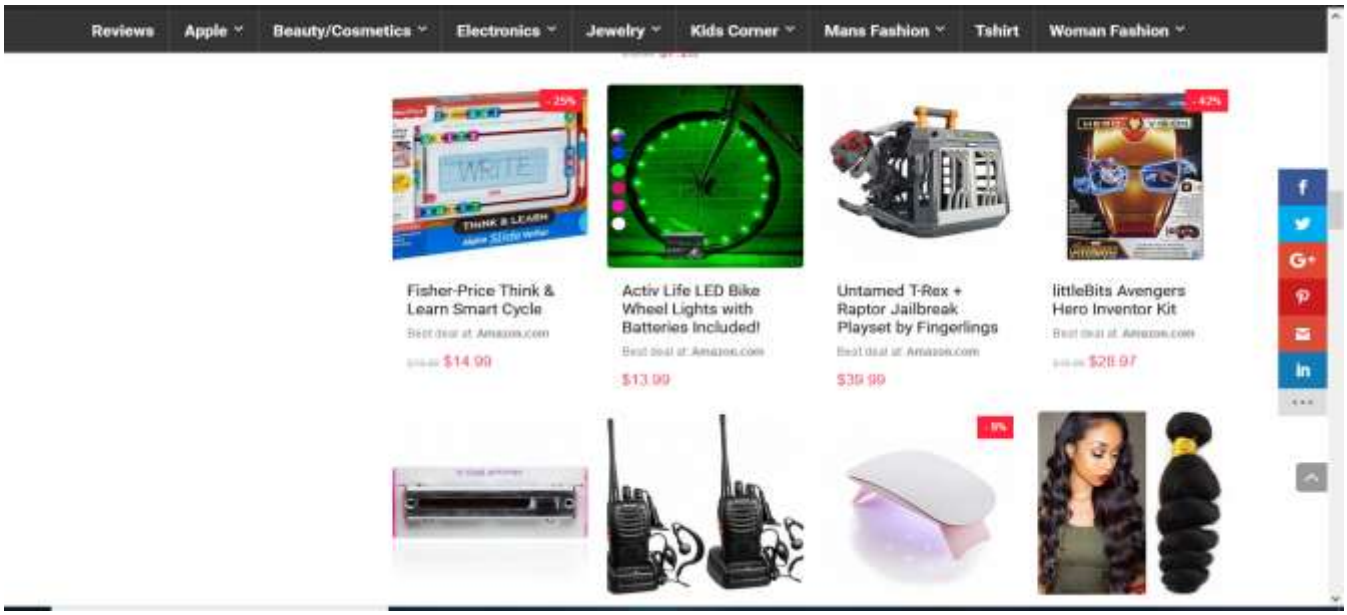

Figure: 3.20 (Scrolled Home Page)

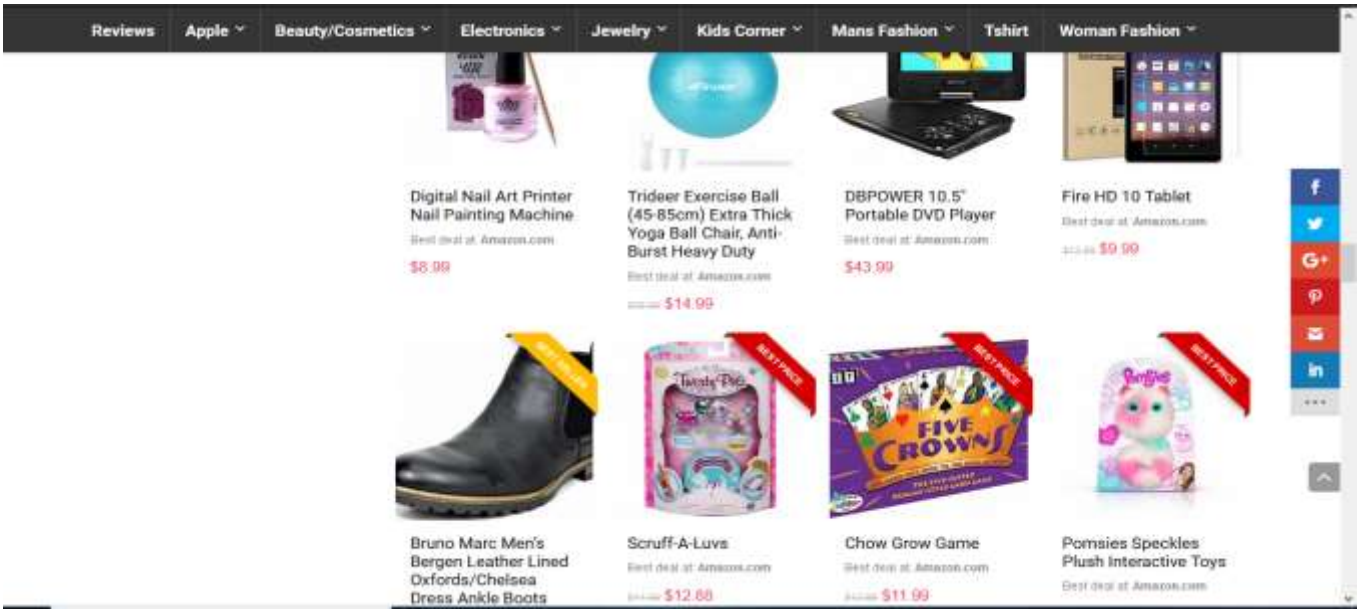

Figure: 3.21 (Scrolled Home Page)

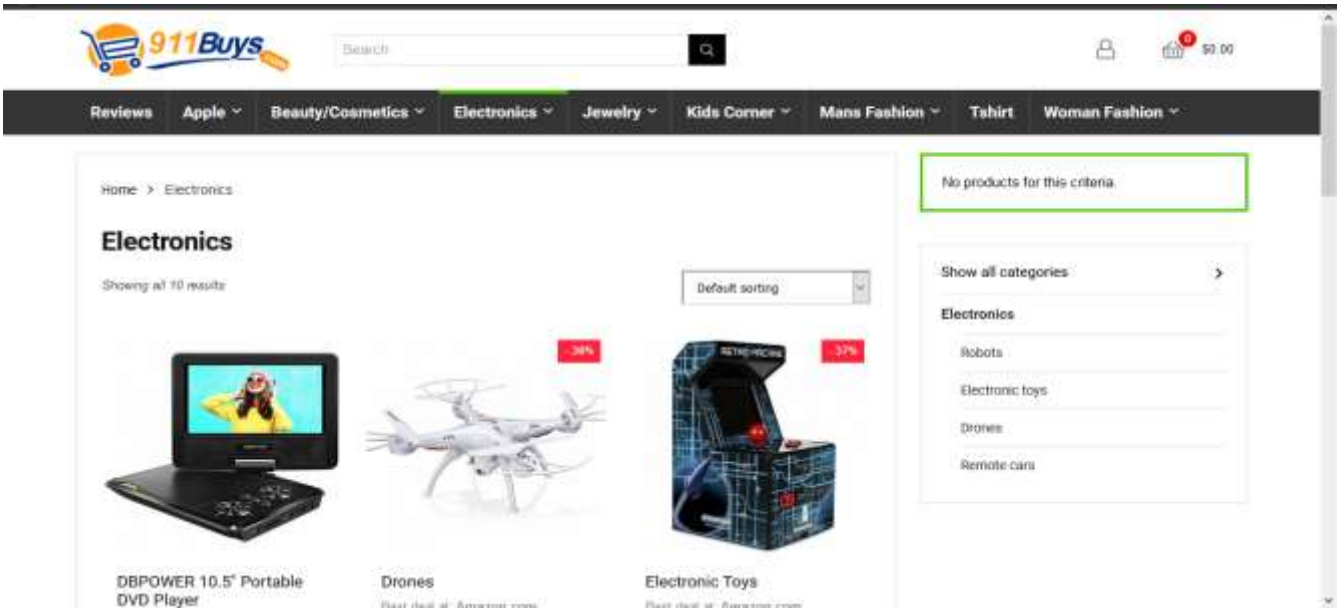

Figure: 3.22(Scrolled Home Page)

Chapter 4

Key Learnings

From the learning and experience perspective I can state that I truly making the most of my entry level position period as a web developer at Pico Ant Technology. From the first day, I was sure that this 3 months temporary position program will definitely enable me to understand my further profession in the activity to advertise as a web developer. It was an awesome open door for me to get used to this present reality advancement condition. I have learned a lot of things during my works from here. Some of them are…
PHP: Hypertext Preprocessor is a server-side scripting language designed for Web development. Clear knowledge in PHP.

- HTML: Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications.
- CSS: CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed on screen, paper, or in other media. CSS saves a lot of work. It can control the layout of multiple web pages all at once. External stylesheets are stored in CSS files.
- SQL Server: Gaining clear knowledge in SQL Server
- JavaScript (JS): JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache Couch-DB and Adobe Acrobat. JavaScript is a prototype-based, multi-paradigm, single-threaded, dynamic language, supporting object-oriented, imperative, and declarative (e.g. functional programming) styles.
- WordPress: WordPress is a content management system based on PHP and MySQL that is usually used with the MySQL or Maria-DB database servers but can also use the SQLite database engine. Features include a plugin architecture and a template system, referred to inside WordPress as Themes.

Chapter 5

Limitation and Recommendation

The period of my internship is certainly no longer enough to learn everything and in this web sector, things are constantly changing. The main limitation was, most of the tools and platform almost new to all of our member. So, it took lot of time to learn those things and implement those. I am trying my best to learn all of those things and I will able to achieve my final goal.

Chapter 6

Conclusion

It was a great unimaginable opportunity for me to complete my intern at Pico Ant Technology. This internship has been an excellent and rewarding experience. I can conclude that there have been a lot that I have learned from my work at Pico Ant Technology. The entry level position program in Pico Ant Technology made me familiar with the professional organization culture and the innovations they mostly manage. It has made a difference me grow trustworthiness, continue without anyone else in new innovative difficulties, furthermore, grow better systematic abilities. The project in which I worked motivated me to be hard working, capable and confident. The entry level position program has been an extraordinary helping the sense that it enhanced my cooperation abilities. The main things that the importance of our time, self-motivation and how to handle work pressure. I hope this experience will extend my knowledge and will help us to build a bright future in the field of job.

Glossary:

- Visual Studio Code
- Website Interface Design
- Interface modify
- WordPress Plugin
- WordPress Theme Customization

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- CSS Tutorial [Online] Available: https://www.w3schools.com/css/css3_backgrounds.asp
- SQL Server Tutorial [Online] Available: https://www.w3schools.com/sql/sql_check.asp
- JavaScript Tutorial [Online] Available: https://www.w3schools.com/js/js_validation_api.asp, Udemy.
- WordPress Tutorial [Online] Available: https://www.w3schools.in/wordpress-tutorial/introduction-to-content-management-system-cms/ , Udemy.