

National Youth Services Council LALITH ATHULATHMUDALI VOCATIONAL TRAINING CENTER



(Rathmalana)

National Diploma In Information and Communication Technology (NVQ L5)

Final Project



(W.P.Ashen Shanuka Weerasinghe)
(2022 1st NVQ L5)
(2022/03/09)



National Youth Services Council LALITH ATHULATHMUDALI VOCATIONAL TRAINING CENTER



OUR VISION

To be the trusted Pioneer in Creation of a Dignified Sri Lankan Youth.

OUR MISSION

To provide an Excellent
and Trusted Service
towards creation
of a Dignified Sri Lankan Youth
who is Discipline,
Knowledgeable and Global
in Outlook
while upholding
Local Values.

LALITH ATHULATHMUDALI VOCATIONAL TRAINING CENTER

LAVTC/HODL/F/035



(NYSC Ratmalana)
Assignment Template & Feedback Form

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ındividual Assignment :			
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Group Assignment :			
Group Members :			NIC No:
Instructor Comment:			
Grade / Marks : Instructor Signature : Date :			

Acknowledgment

Lalith Athulathmudali Vocational Training Center 2023.10.31

would like to acknowledge that my project has been completed and I am ensuring that this was done by me and not copied.

In this accomplishment, I would like to express my special gratitude to all my teachers and most importantly

Our department coordinator **Mr. Niroshan Aponsu** EMP1, EMP2, EMP3 teacher **Mr.Errorl Pereira** Database teacher **Mr.Channa perera** Graphic Desige teacher **Mr. Wijithatunga Thissera** Software Programming, SAD & Testing **Mr. Akila Samaranayake**

Networking teacher **Mr. Hasitha Nadeeshan**Web Programming teacher **Mr. Manoj Rathnayaka**

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Ashen Shanuka

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Chapter one -Introduction

1.1 Company Introduction

Liberty Publishers (Pvt) Ltd operates as one of the number one newspaper publishing and a media giant in Sri Lankan context. Company currently issues verity of publishers under many languages to the general public in Sri Lanka to cover up the whole nationality as a well-established media company in the industry.

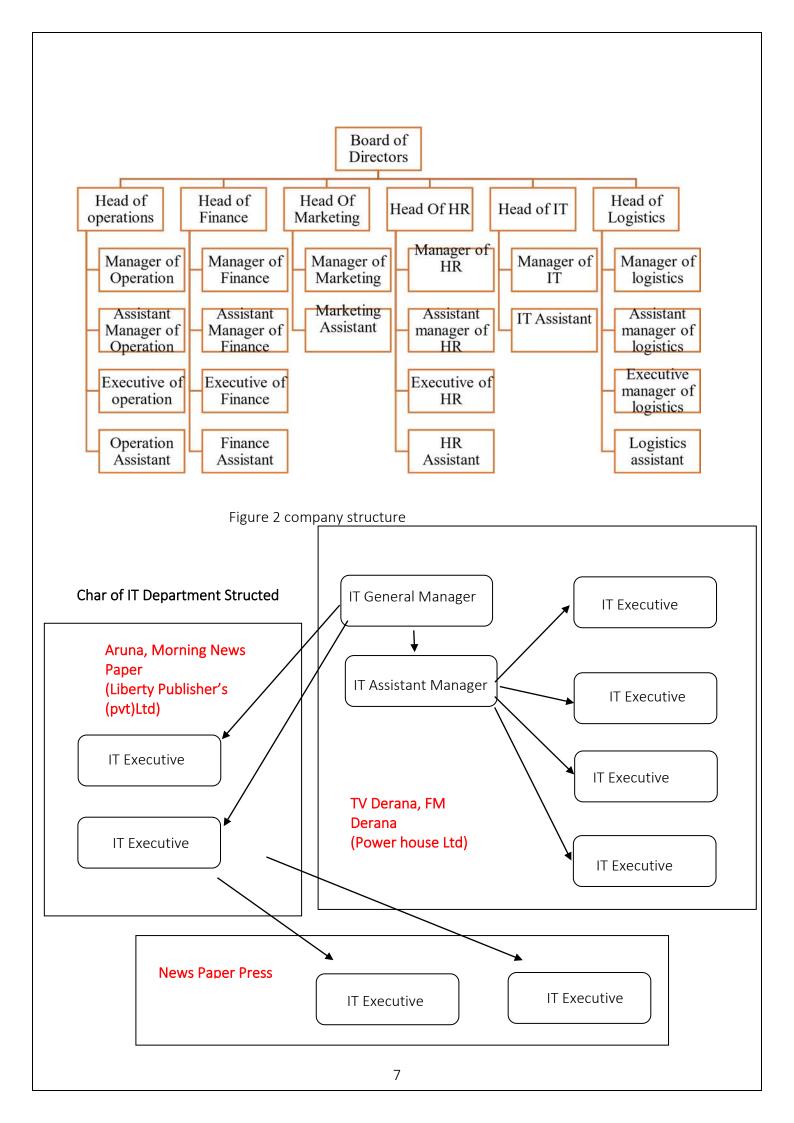
Aruna newspaper article in Sinhala language, Morning newspaper article in English language and Thamilan newspaper article in Tamil language are namely different newspaper article issues in different languages. In additionally the company more over issues the Kirana Educational magazine aimed towards Kindergarten - Grade 5 students along with Junior Thamilan magazine in Tamil language, Dhareeni newspaper article mainly focused on the women and Tharuwa astrology newspaper article furthermore represent the key roles performed by the company as a whole.

As a power house company under the media coverage of Derana, Mr Dilith Jayaweera act as the sole owner of Liberty Publishers. The company is currently handled by Mr. Madhava Madhawala who is the director of Derana media community along with Mr. Vijith Chandrasena handles the operational activities.

Currently nearly 120 employees are employed under Liberty Publishers Pvt Ltd as it moreover acts as a leader for a press outlet.







1.2 Company Vision

"To be the beacon of truth, empowering Sri Lankan communities with insightful journalism that shapes a brighter future.

1.3 Company Mission

"Deliver unbiased news, foster community engagement, champion social responsibility, prioritize environmental sustainability, and embrace continuous learning for a dynamic and impactful journalistic presence."

1.4 Company Borad of Directors

Chairman = Mr. Dilith Jayaweera CEO = Mr. Madhava Madhawala COO = Mr. Vijith Chandrasena



Figure 3 Chairman Mr. Dilith Jayaweera

Figure 4 CEO Mr. Madhava Madhawala



1.5 Project Problem

Presently there are various aspects of methods available within the company to report any inquiry to IT department along with modern standards and procedures. Among those reporting strategies, there are scenarios where by employees do physically / verbally would report complaints about IT issues and inquires as well.

Even-though in such cases many people/ employees are not aware that there is only one person available to solve all the problems faced in a company in which nearly 120 employees are employed in.

Following a such pattern, there could be many circumstances a single IT person could forget all the inquiries and issues reported to him due to bulk of many inquiries handled by him in a daily manner.

Since the company is not in a position to purchase and implement high standards software's to prevent and solve IT related issues, this project therefore intends to introduce a chat application where by the employees simply could communicate any technical related matter to IT department which a short time period.

1.6 Objectives

The main aims of this research proposal are as follows:

- 1 Reduction of the impact which occurs on day to day activities .
- 2 Ease the day to day activities and transactions of the employees in day to day basis.
- 3 Reduction of the blames and other negative comments on the IT department (Due to mismanagement of the employee's assigned tasks .
- 4 Reduction of the stress and tiring nature of the employees by working closely with the IT department.

1.7 Expected Limitations

The world is evolving day by day, and the technology also getting forward. In an institution of the past, all work is done through human labor. But in present it's getting changed. With the advancement of technology, human labor is being replaced by technological methods.

Competitiveness is necessary in the business world. Therefore, to compete with other institutions, then technical methods must be followed. There is getting some problems when introducing the smart approval system.

The company has the oldest employees since its start. Depending on their age, they may not have much knowledge of technology.

It is also difficult for them to be taught those techniques. But those employees have a complete knowledge of the company because they have been with the company since its start. So, they are important to the company.

This can cause problems when switching to a Smart approval system.

Training Inefficiency - Optimal use of skill, experience, workforce, and resources is key in a manufacturing operation.

Without these factors, it is difficult to keep your performance efficiently and smoothly, so proper training on smart approval system is essential for the system to function properly.

Cost - The cost of the software, design, customization, configuration, etc. is extremely high.

1.8 Proposed work schedule

No	Task Week		Jur	ne			Jι	ıly			Au	gust		Se	epte	mb	er		Octo	be	r
	ldsk	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	ന	4
1	Identify the Topic																				
2	Create the Project																				
	Proposal																				
3	Submit the Project																				
	Proposal																				
4	Approved the Project																				
	Proposal																				
5	Gather Information																				
6	Analyze Gather																				
	Information																				
7	Create the Project																				
8	Check Error of Project																				
9	Submit the Project																				

1.9 Justification of the Project

The daily activities of an organization should be done properly. For that, employees should communicate with each other properly. The aim of this project is to speed up transactions between employees and their time with the IT department. In order to carry out the daily work of an organization, the employees' computers and the things they use must be in proper condition. It is the IT department's responsibility to create them when they are not in usable condition. This application works proactively to ensure that responsibility is not missed properly.

Apart from that, it is also used for communication among the employees of the institute.

- 1. Improving employee relations
- 2. Facilitating daily work
- 3. Preventing absenteeism

Chapter 2 – Methodology

2.1 Introduction

Identification of Population and Sample This chapter describes the method in this Project which aims to explore and understand employee resistance in adapting to new technological systems in Liberty publisher's (pvt) Ltd.

2.2 Population, Sample and Sampling Technique

2.2.1.Population

The population in this project was all employees of the Liberty publisher's (pvt) Ltd Head Office in Colombo. The population is around 50 employees, and they are mixed with male & female.

2.2.2.Sample

The sample was only randomly selected 20 employees at INSEE Head Office & was attended by both men and women.

2.3 Type of Data to Be Collected and Data Source.

2.3.1. Primary Data Collection Method

2.3.1.1.Questioners

The questionnaire is the one of instruments used in the data collection of primary data. It's a very quick and easy step. Questionnaires need to be designed carefully; they supply reliable information. So, negative questionnaires can be considered inflexible & find the main cause of a problem and potential solutions.

1. Are you satisfied with the exchange of information through the existing telephone network in the company??

- 2. Does the other employee always answer the phone??
- 3. Does the work you said pass through the it department??
- 4. Are you uncomfortable with it??
- 5. Are you interested in any information exchange service other than telephone??

2.3.1.2. Direct Interviews / Face to Face Discussions

Discussed with the Head of Human Resources Division how their employees would react to the new technological change. Further analyzes were made based on the information provided by her.

2.3.2.Secondary Data Collection Method

- Liberty publisher's (pvt) cements annual reports.
- Magazines.
- Company web site

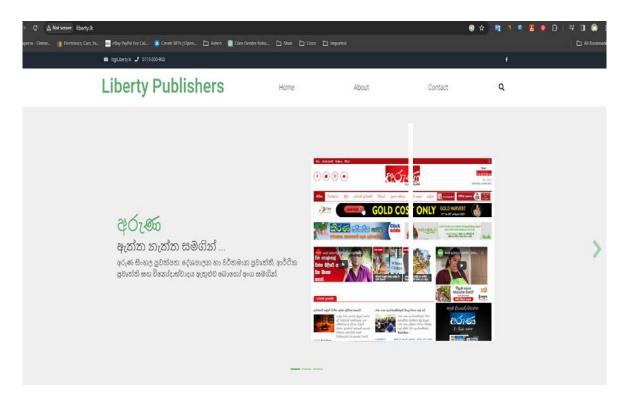


Figure 5 Company web site

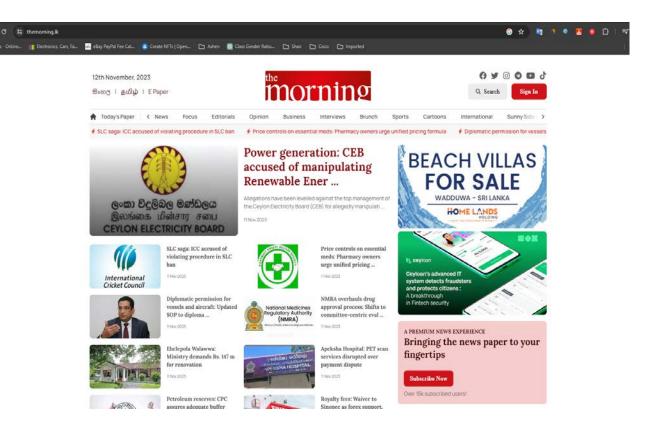


Figure 6 themorning web site

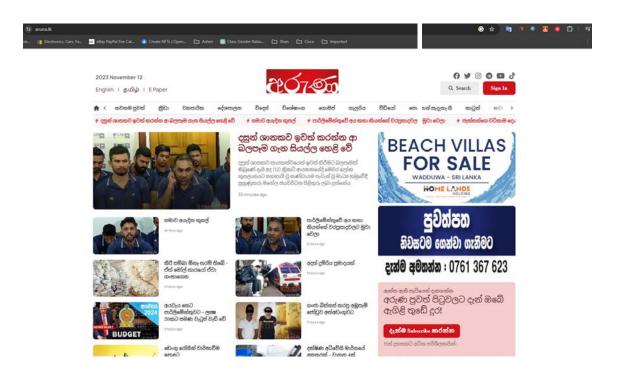


Figure 7 aruna web site

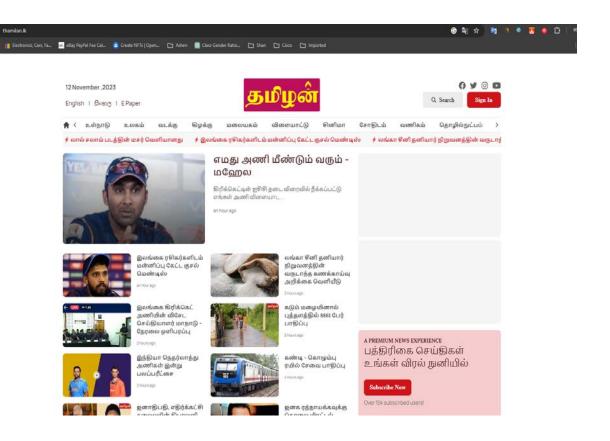


Figure 8 thamilan web site



Figure 9 dharanee web site

Chapter 3 – Software

3.1 Introduction

This software application was created with the idea of sharing information between employees in the Liberty Publications private company. This is chosen to be used as an additional application to the currently used telephones. These grants are expected to be used to increase the interaction between the IT department and the employees.

3.2 Software create by

These things have been used to create this application

- Xampp Server
- PHP language
- CSS
- Java Script

3.3 Database Tables

Chat application use the two-database table. This is the tables details

1st Table messages

`msg_id` int(11) NOT NULL, (PRIMARY KEY)

`incoming_msg_id` int(255) NOT NULL,

`outgoing_msg_id` int(255) NOT NULL,

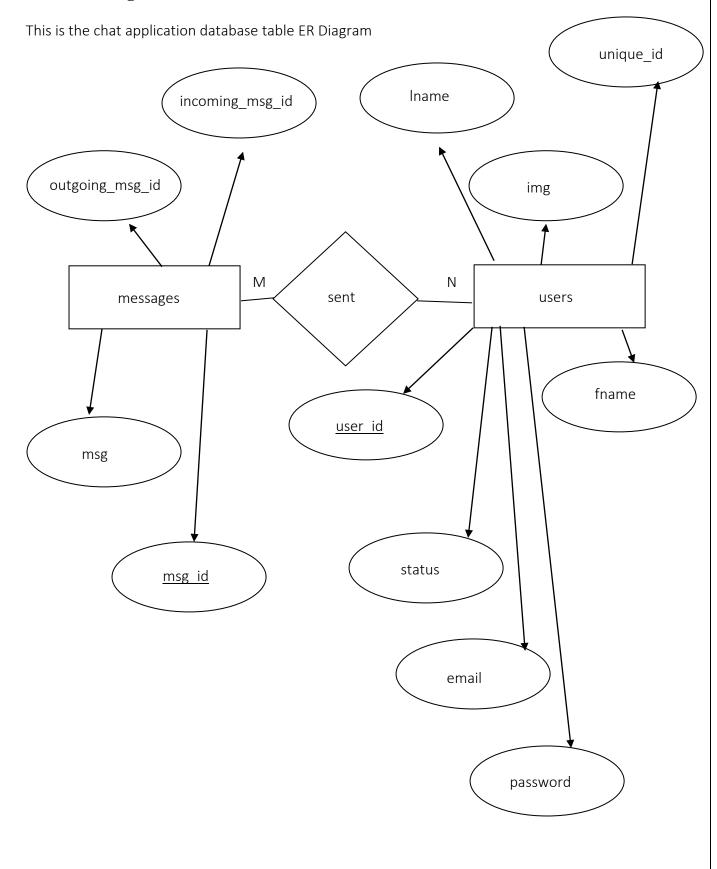
`msg` varchar(1000) NOT NULL

2nd Table users

`user_id` int(11) NOT NULL, (PRIMARY KEY)
`unique_id` int(255) NOT NULL,
`fname` varchar(255) NOT NULL,
`lname` varchar(255) NOT NULL,
`email` varchar(255) NOT NULL,
`password` varchar(255) NOT NULL,
`img` varchar(255) NOT NULL,
`status` varchar(255) NOT NULL

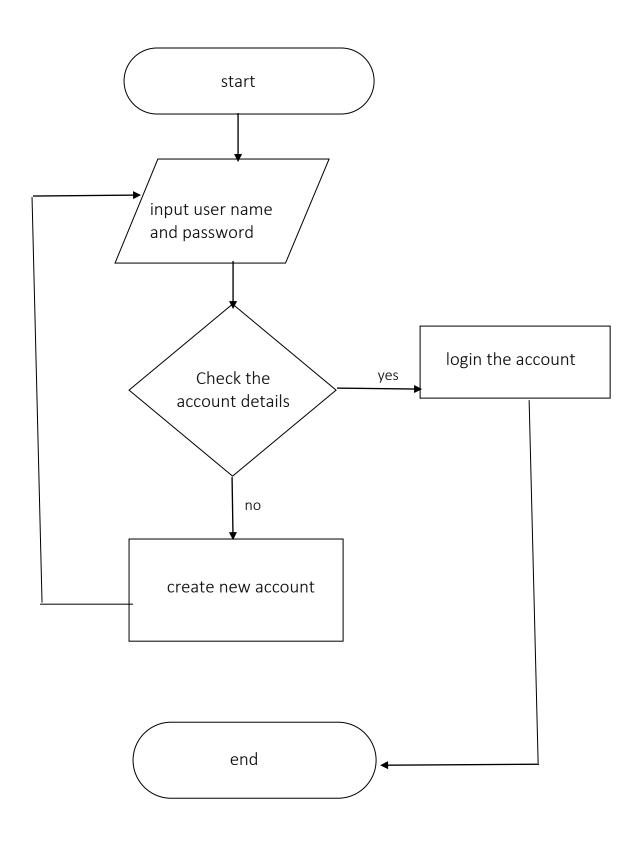
3.4 Diagram

3.4.1.ER Diagram



3.4.2.Flow Chat

This Flow Chart shows how to working the Chatapp Application



3.5. Software Testing

After making a new product, it is a must to test the product before giving it to the users. In the same way, after creating a new software, it is tested. There are several ways to test software

I tested the chat app that I created for this project in various ways. I am testing it unit by unit

The xampp server checked the connections between the checked databases. There I also found a case where the connection between the database was broken. Additionally, there were issues where the database table did not have the correct name in the php file it was written to.

Second, I checked the entire system. There was also a problem where the user's pictures were not displayed.

And the biggest problem is that the xampp server always needs to be turned on manually when the user turns off the computer and restarts it.

3.6.Software Security

It is imperative to protect every design. Because usually there are different kinds of threats to a software design. It should be protected from bugs, malware, d dos attack, phishing attack etc. Since this design is being done to a famous media company in Sri Lanka, it is imperative to protect the security here. Since the company's information is transacted through this, he must protect it in a way that does not change in any way

Since xampp server is used only to this extent, protecting the xampp server is something that must be done.

• The first deals with the MySQL user. By default, the MySQL administrator (root) has no password in XAMPP. To secure MySQL, enter your desired password in the New

Password field, then again in the Repeat the new password box. Choose your authentication method (http or cookie), then click Password Changing.

 The second deals with securing the XAMPP web panel. Enter a unique username in the Username field, a strong password in the Password field, then click Make safe the XAMPP directory.

3.7. Software Backup

- Taking a backup is a must do. If there is a problem with the design for any reason, there should be a backup to bring it back to reality.
- Otherwise the designer has to put it completely anew Since this design is done for a media company, it should have the golden time properly.
- If this design is not implemented, the inter-connectivity and information of the institution will be lost.
- Here, only the database was to be backed up, there are several ways to do it

3.7.1. 1st method

This method using the get the backup manually

- 1. Browse to http://localhost/phpMyAdmin or http://127.0.0.1/phpMyAdmin. If required, log in using your database access credentials.
- 2. On a fresh XAMPP installation without any changes, you can log in as root with a blank password.
- 3. Select the database to be backed up from the list in the left navigation pane. In this case, we're backing up the WordPress database, which is named bitnami wordpress.
- 4. Select the "Export" command in the top navigation bar.
- 5. On the resulting page, select "Quick" as the export method and "SQL" as the output format. Click "Go" to proceed.

3.7.2.2nd method

This method using the get the backup automatically

@echo off

For /f "tokens=2-4 delims=/ " %%a in ('date /t') do (set mydate=%%c-%%a-%%b)

For /f "tokens=1-2 delims=/:" %%a in ("%TIME%") do (set mytime=%%a%%b)

SET backupdir=C:\xampp\htdocs\backup

SET mysqluername=root

SET mysqlpassword=password

SET database=dbname

C:\xampp\mysql\bin\mysqldump.exe -u%mysqluername% -p%mysqlpassword% %database% > %backupdir%\%database%_%mydate%_%mytime%.sql

3.8.software Feedback

After measuring a design, it is necessary to get a response from the user.. Through the responses, the designer can know about the problems that the user has in using the design.

By doing so, it becomes possible to improve the design. By improving the design, it becomes easier for the user and the designer to solve problems and use it.

Reference

XAMPP Server = https://www.apachefriends.org/

Wkipedia = https://en.wikipedia.org/wiki/Dilith_Jayaweera

w8schools = https://www.w8schools.com/css/default.asp

https://www.w8schools.com/jsref/default.asp

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Thamilan Website = https://www.thamilan.lk/

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https://make.wordpress.org/core/handbook/tutorials/installing-a-local-server/installing-xampp/#:~text=By%20default%2C%20the%20MySQL%20administrator,Repeat%20the%20new%20password%20box.

Database Backup = http://www.ihp.sinica.edu.tw/dashboard/docs/backup-restore-mysql.html

http://video.sc.su.ac.th/dashboard/docs/backup-restore-mysql.html https://gist.github.com/payamomrani/fddae85cf6779bc842e88996546006d4

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Assignment Receipt

SECTION 1 - LAVTC Copy

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Group Name:	Unit Title:	
Group		
Members:	Assignment No:	
	Batch No:	
	Phone No:	
	Email:	
	Submission	
	Date:	
Student / Group	Received By:	
Leader Signature:	Signature:	
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Student Name / Group Name: Group	Course Title: Unit Title: Assignment No: Batch No:	
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පුතිඵල නිකුත්වී මාස 04ක කාලයක් තුල ඔබ, ආයතනයට භාරදුන් වාහපෘති වාර්තා නැවත රැගෙන යායුතුය. එසේ රැගෙන නොයන වාහපෘති වාර්තා පිළිබඳව ආයතනය වගකියනු නොලැබේ.

