Attendance Monitoring System Database Design in Luzviminda Youth Organization

An Information Assurance and Security Presented to

The Faculty of the College of Arts and Sciences

Eulogio "Amang" Rodriguez

Institute of Science and Technology

Nagtahan, Sampaloc Manila

In Partial Fulfillment

of the requirements for the Degree of

Bachelor of Science in Information Technology

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APPROVAL SHEET



Republic of the Philippines EULOGIO "AMANG" RODRIGUEZ INSTITUTE OF SCIENCE AND TECHNOLOGY Nagatahan Manila, Philippines



April 28, 2022

College of Arts and Sciences

Ms,Camille Moralde President

#15 pangasinan street, Luzviminda Village.

Dear Ms: Moralde,

Good day!

We, the 3rd Year students from Eulogio "Amang" Rodriguez Institute of Science and Technology (EARIST) in support of College of Arts and Science Department (CAS), currently enrolled in the subject entitled "System Architecture and Integration", would like to ask a permission to create a Participants monitoring and information system in Luzviminda Youth Organization.

The permit will allow the students from 3rd year college to perform an interview and gather information for further knowledge and understanding in this Youth organization on data gathering and other related processes that are considered useful for the completion of the project especially in the security and development of database applications to meet research goals.

We rest assured that all the data gathered will be treated with the utmost confidentiality and for academic purposes only.

Thank you very much for your cooperation it was a pleasure to serve you with our credibility and integrity.

Respectfully yours:

Flores, Jaydine

Alidon, Manuel

Rodriguez, Melanie

Castillo, Andrew

Members and Signature

s. Merlita C. Letip

Ms.Cam le Moralde President

Abstract

This paper offers initial exploration into how organization would use attendance monitoring system in exchange to their manual face to face conduct of participation. According to a survey of more than a hundred voluntarily organizations, organizations that still perform manual processes are often too involved in handling the various stages to recognize its impact on business. While the method may seem to suffice, these companies are slowly falling behind those that utilize the newest technologies.

Over 85% of companies say they change their approach on manual processing, and more than half don't think it's necessary to stay and still use a human performing task. Despite all of the technology at our disposal and the importance of accurate and complete data, many teams managing large amounts of rebates still rely on manual processes for calculating, accruing and allocating rebates. They often find themselves chasing down errors, reconciling data, and trying to make important decisions based on an assortment of incomplete or inaccurate rebate data.

ACKNOWLEDGEMENT

We cannot express enough gratitude to **LUZVIMINDA YOUTH**ORGANIZATION for giving us with the opportunity to complete this work, as well as to LUZVIMINDA YOUTH ORGANIZATION'S PRESIDENT MS. CAMILLE MORALDE for her guidance and advice that carried me through all stages of writing our project.

I'd also like to thank my fellow colleagues for their dedication and ongoing support, guidance, and understanding of one another

Lastly, we would like to thank GOD, for letting me and our companion through all the difficulties. We experienced your guidance day by day.

DEDICATION

This research involved numerous and time-consuming sacrifices. This work is heartily and proudly dedicated to the people who serve as an inspiration by the researcher's efforts. From our beneficiary, our teacher in this subject, friends, and fellow students who offered assistance in the midst of difficulties while carrying out this work. to the community volunteers of LUZVIMINDA YOUTH ORGANIZATION, especially their officers who help and guide us, we thank you for your trust in our system. We also thank God Almighty for the strength, courage, patience, wisdom, time, and guidance in completing this work.

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LYO - Luzvimindan Youth Organization

Org - Organization

NGO - Non-Governmental Organization

Striving - Make a great effort to achieve something

Lament - A passionate expression of grief or sorrow

LGU - Local Government Unit

Dataflow - A computer architecture that utilize multiple parallel processors to perform simultaneous operation as data become available

Maneuverability - Capable of being steered directed

Alphanumeric - Consisting of using both letters and

numbers

Tangible - perceptible by touch

Intangible - unable to touch

LAN - Local area network

WAN - Wide area network

Flowchart - Type of diagram that represents a process

CHAPTER ONE

INTRODUCTION

1.1HistoricalBackground

We founded our organization as teenagers in 2018, and while we were young at the time, our age was not a barrier to serving other young people. We developed a simple platform to educate young about their rights and mental health, and a year later we promoted a sport fest named "BOLA KONTRA DROGA ", in which we organized gaming competition Featuring mobile legends, Call of Duty, Rules of Survival, and other games to make the youth happier. We also have an initiative called "CLEAN UP DRIVE" in which we clean the streets, court, and canal every Saturday Morning. We also conduct a singing and dance competition to help Students develop their skills and gain self-confidence and self-esteem. Apparently, the COVID-19 blew apart, and we now have a new system in Education, with online classes. Some kids can't buy a gadget, but they want to continue their studies, so we campaigned to get them a free laptop in college, a free tablet in high school, and a free load every month.

Activity

- 1.) Basketball League: Mini Mosquito Division (10yrs old below),

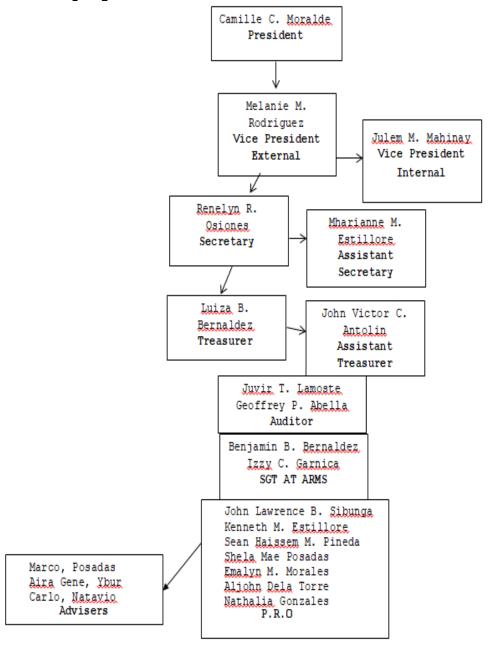
 Mosquito Division (12yrs old below), Midget Division (16yrs old below), Junior Division (18-21yrs old) and Open Senior Division (21yrs old above).
- 2.) Volleyball League: Girl Division (18yrs old above), Boy Division (18yrs old above).
- 3.) Miss Gay.
- 4.) Mutya ng Luzviminda Village.
- 5.) Singing and Dance Contest.

Sponsors

- 1.) Mayor
- 2.) SK Chairman/SK Chairwomen
- 3.) Congressman/Congresswomen
- 4.) Kagawad
- 5.) Village Owner and House owner

1.20rganizational Char

1.2.1Company as whole



1.3 Statement of the Problem

Problem 1: Financial

Document of involved:

- Assistance in other organizations As one of the most well-known groups in our neighborhood, it can be challenging for us to assist in other endeavors.
- Fund- as a part of an MGO (Non-Governmental Organizations)

Scenario:

As a NON-GOVERNMENT ORGANIZATION, it is extremely difficult for us to find sponsorship to meet our needs, particularly our uniforms and food, and when we embark on a project, we lack the financial resources to see it through

Cause

 They do not believe in us because our youth organization because it is a NGO (Non-Governmental Organizations)

Impact

 We lose confidence in believing in ourselves to do and build more activities.

Quantification

The total amount of 1 activity cost around 5 thousand
 - 10 thousand.

PROBLEM 2: LACK OF TIME

Document of involved

- The majority of us are students. Some of our young officers are full-time students who also have family responsibilities, and our officers and volunteers occasionally have other commitments.
- Since this measure defined Filipino youth as individuals between the ages of 15 and 30, half of our officers are minors. The estimated population of the

Philippines is 85.2 million at the moment. More than 40% of the population is made up of youth.

Scenario

We must complete the project, but some of us must leave early owing to curfew, while others must complete their academic work. We have limited time; a single project might take two to three days to execute, but because of the difficulty, preparation takes a week.

Cause

• Short of time to prepare because some of us are students and have a responsibility to do household chores.

Impact

• Our project got delayed and not launch exactly on time.

Quantification

The total days consuming the activities is 20 - 30 days.

PROBLEM 3: Poor communication and feedback.

DOCUMENTS OF INVOLVED

• There appear to be two extremes in this regard: either people go to great lengths to avoid addressing others and holding them accountable, or they seize every chance to pick on, denigrate, and demoralize people.

Scenario

I have worked with several leadership teams where the main issue was a lack of open, honest, and constructive discussion regarding the practices, styles, skills, and behaviors of the team members. Organizations will find it difficult to develop without a culture of openness, criticism, and coaching. In fact, this is the complaint we hear the most often, just after pitfall #1 ("lack of clear direction"). In fact, this problem is so expected, typical, and harmful that we have prepared materials on it before working with any leadership teams or individuals.

Cause

• Low self-esteem can cause inefficient job behaviors including defensiveness, being overly obedient, or rebelliousness. It frequently causes a dread of the novel and unknown. Nobody is as hard on us as we are on ourselves; we are our own toughest critic.

Impact

• We can't focus our goals because of miscommunication and misinterpreted.

Quantification

• Open up to somebody is taking a lot of courage.

1.4 Scope and Delimitation

The intent of this study is to help the organization to be organized and be more functional and also to monitor the members of the Luzviminda Youth Organization. Member of this organization can create an account and after that they can join some of the events and activities that organization has given and the admin will know if they are participating or not.

This study is limited only to Luzviminda Youth Organization inside the village but any individual outside the village have to pass through the vice president external before creating an account. Usually around 15-30 yearsold are allowed to participate in this organization.

CHAPTER TWO SYSTEM ANALYSIS

2.1 System Name and Background

Attendance Monitoring System Database Design designed to monitor the attendee and to know who's active The Luzviminda Youth Organization founded not. orteenagers in 2018, and while we were young at the time, our age was not a barrier to serving other young people. developed a simple platform to educate young about their rights and mental health, and a year later we promoted a sport fest named "BOLA KONTRA DROGA ", in which organized a gaming competition featuring Mobile legends, Call of Duty, Rules of Survival, and other games to make the youth happier. We also have an initiative called "CLEAN UP DRIVE" in which we clean the streets, court, and canal every Saturday morning. We also conduct a singing and dance competition to help students develop their skills and gain self-confidence and self-esteem. Apparently, the COVID-19 blew apart, and we now have a new system in education, with online classes. Some kids can't buy a gadget, but they want to continue their studies, so we campaigned to get them free laptop in college, a free tablet in high school, and a free load every month

2.2 System Analysis Tools

2.2.1 System Outline

Manual Processing

Members and guests should not have an account before going to the Luzviminda Youth Organization. The admin will give a form that the members and guests must fill out for the application of the account and the admin will be the one to create the account. The member and guests must be patient while the admin is creating the account.

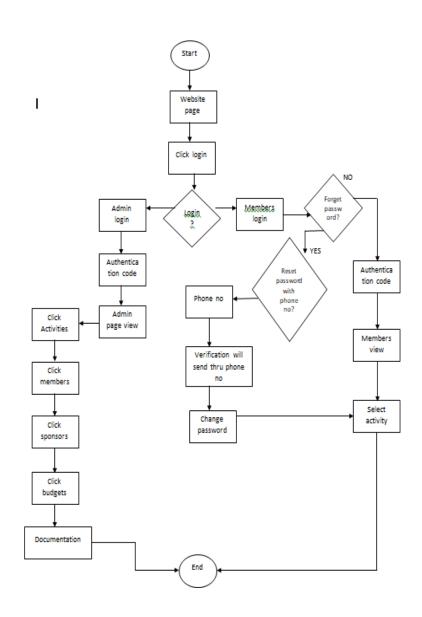
System processing

The members must use the log in form for the attendance to participate in the current activities. The admin will monitor if the members are participating in the event.

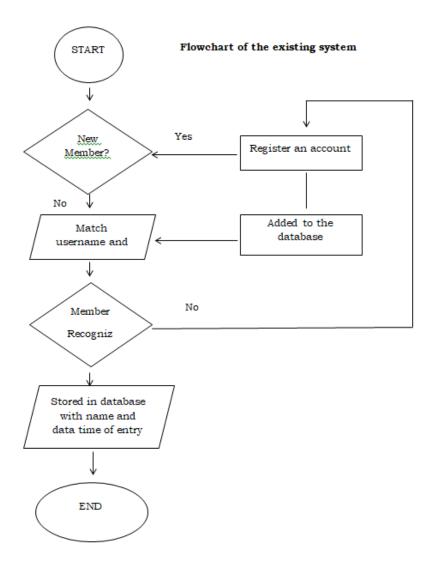
2.2.2 Proposed System Flowchart for Attendance Monitoring System

Database Design

Proposed System



Flowchart of Existing System



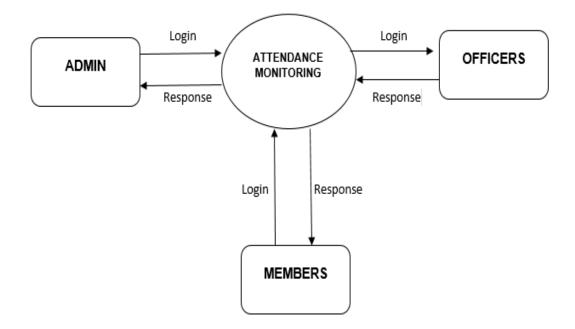
2.2.3 Gantt Chart for Attendance Monitoring System Database Design

Project Schedule

TASK NAME	FIRST MONTH			SECOND MONTH			THIRD MONTH			
IASK NAIVIE	Week 1	Week 2	week3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	
PLANNING										
RESEARCH										
DESIGN										
IMPLEMENTATIO N										
FOLLOW UP										

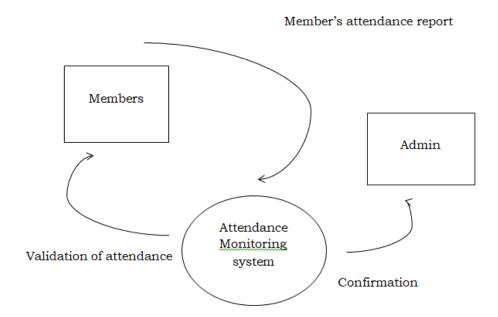
2.2.4 Context Diagram for Attendance Monitoring System Database Design.

Proposed System



Context Diagram of Existing System

Context Diagram of the existing system

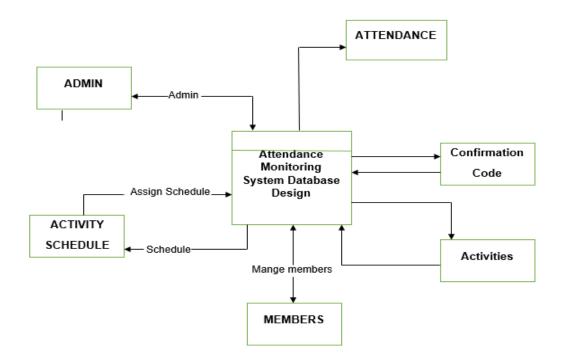


2.2.5 Data Flow Diagram for Attendance Monitoring System

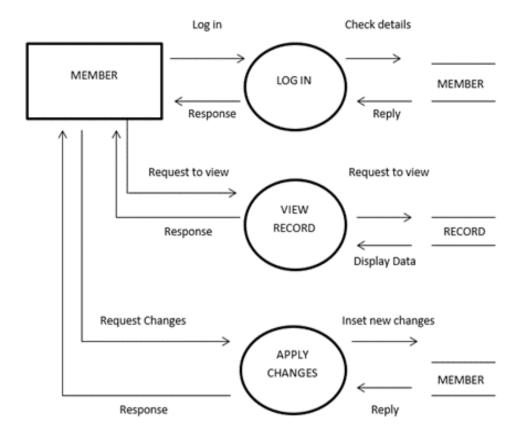
Database

Design

Proposed System



2.2.5 Data Flow Diagram Existing System for Attendance Monitoring System Database Design



2.2.6 Data Dictionary

Participant Form

FIELD	FIELD	FIELD			
NAME	TYPE	LENG- TH	DECIMA -L	FORMA-T	DESCRIPT ION
NAME	ALPHANUMERIC	20	0	X(20)	The name of the member
AGE	NUMERIC	10	0	2 (10)	The age of the member
ADDRESS	ALPHANUMERIC	30	0	X(30)	The address of the member
BIRTHDA -TE	DATETIME	9	0	mm/dd/yy	Birthdat e of the member
CELLPHO NE NUMBER	NUMERIC	10	0	2 (10)	Cellphon e number of the member

Admin form

FIELD	FIELD	FIELD			
NAME	TYPE	LENG- TH	DECIM-	FORMA-	DESCRIPTION
NAME	ALPHANUMERIC	20	0	X(20)	The name of the admin
AGE	NUMERIC	10	0	2(10)	The age of the admin
ADDRESS	ALPHANUMERIC	30	0	X(30)	The address of the admin
BIRTHDA TE	DATETIME	9	0	mm/dd/ YY	Birthdate of the admin
OCCUPAT I-ON	ALPHANUMERIC	20	0	X(20)	Occupation of the admin
POSITIO N	ALPHAMUMERIC	20	0	X(20)	Position of the admin in the organization

2.2.7 User Requirements

Personnel:

President

- Overall head of the company.
- Approval and checking and creating the project

Vice President

- Overall assistant of the general manager in decision making
 - Consult the project

Secretary

- -Coordinate with the President and Vice President
- -Update and Finalize

Treasurer

- Responsible for making the receipt
- Responsible for auditing
- Responsible for taking care the money

CHAPTER THREE

GENERAL DESIGN

3.1 GENERAL OBJECTIVES

The study's main objectives are to monitor and update the youth of LUZVIMINDA residents on our upcoming events, so we decided to create a system to monitor and update the youth and members on what the next update is. As an NGO, we do not expect to assist other sectors, but we can create a system to encourage them to join our ORGANIZATION in order to assist them in deciding what field to enter.

3.2 SPECIFIC OBJECTIVES

These are the specific objectives of the study based on the problems stated:

- To became faster correlation between the members and the youth
- To make the members and the youth easier to access and updating the events

3.3 Presentation of Alternatives

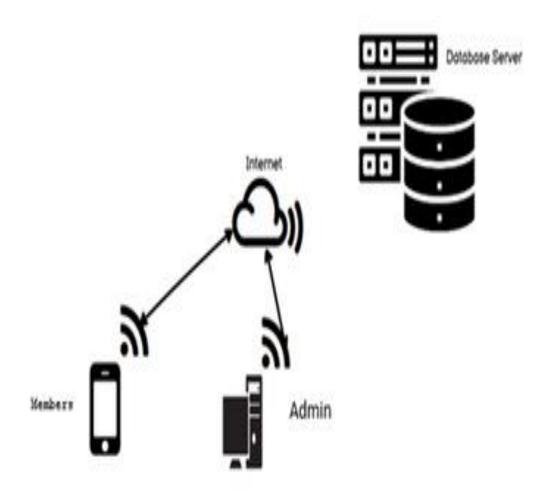
3.3.1 Alternative no. 1: MONITORY SET-UP SYSTEM

A monitory setup system is another name for this option. A system created for the youth to have easier access to the officers and to see upcoming events and happenings in the community for those youth who are unable to go out, this software application will be easily accessible. The major benefit of cell phones and other gadgets is mobility or portability, and you can access and update the events and happenings in our organization from anywhere you go.

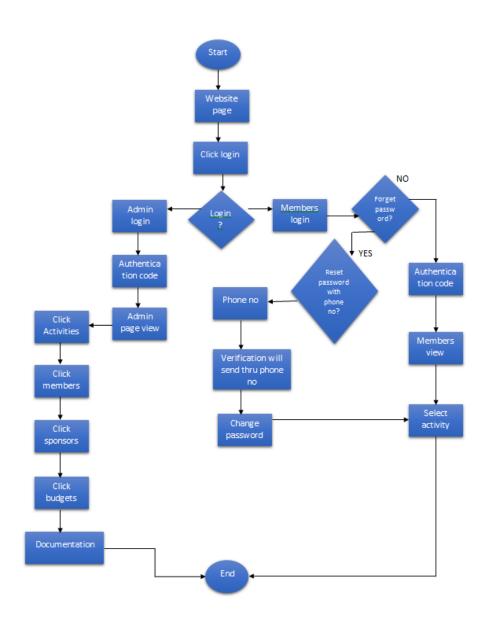
For this alternative, here are the advantages of this proposed system:

- 1. Convenient- is easy, useful, or suitable for a
 particular purpose
- 2. Data privacy- The user consented to the use of this website in a secure and accurate manner. Well-protected data privacy "to preserve safe from harm or attack,"
- 3. Maneuverability The system can function if the user is logged in or connected to the internet.

3.3.1 Network Layout



3.3.2.1 System Flowchart (Web Application Setup)



3.3.1.2 Database/Tables (Web Application Set - Up Participants Form

FIELD	FIELD	FIELD			
NAME	TYPE	LENG- TH	DECIMA -L	FORMA- T	DESCRIPTION
NAME	ALPHANUMER IC	20	0	X(20)	The name of the member
AGE	NUMERIC	10	0	2(10)	The age of the member
ADDRESS	ALPHANUMER IC	30	0	X(30)	The address of the member
BIRTHDA- TE	DATETIME	9	0	mm/dd/ YY	Birthdate of the member
CELLPHON E NUMBER	NUMERIC	10	0	2(10)	Cellphone number of the member

User Account

Field Nam	ıe	Field Type		Size		Decimal
Username	<u>:</u>	Alphanumeric		20		0
Password	l	Alphanumeric		20		0
Activities Document	Ι	Dropdown	5	0	а	What kind of ctivity was joined

Admin Account

Field Name	Field Type	Size	Decima 1
Username	Alphanumeric	20	0
Password	Alphanumeric	20	0

3.3.1.3 Reports (Website Monitoring Set-Up)

The following are the reports generated by the proposed system.

- Attendance report containing all the participants have attended.
- Admin- responsible for handling and managing the admin system.
- Member the ones who participate in the upcoming event.

3.3.1.4 Manual Process (Website Monitoring Set-Up)

- Filling out of the Registration Form
- Manual Processing of Form

3.3.1.5 Tangible and Intangible Benefits (Website Monitoring Set-Up)

- Easy to track and update
- Much more reliable than paper writing
- Obtain the power better connection with the members

3.3.1.6 Requirement Definition (Website Monitoring Set-up)

ITEMS	REQUIRED	EXISTING	NEEDED
HARDWARE			
• Personal Computer Definition (DESKTOP-PL68RVO Intel(R) Core(TM) i3-7100 CPU @ 3.90GHz 3.90 GHz/ 12GB DDR4/ 240GB SATA SSD/ M2280SW 22-inch LCD Monitor)	4	1	3
SOFTWARE • Operating System (Windows 10 pro)	4	0	4
BACKUP ● Seagate 250GB Hard Drive	4	0	4

3.3.1.7 Cost and Benefits Analysis (Web Monitoring set-up

ITEMS	COST
ONE TIME COST	
HARDWARE	
• Personal Computer	
Definition	DHD 20 000 00
(DESKTOP-PL68RVO	PHP 39,000.00
IntelI CoreI i3-7100 CPU @ 3.90GHz 3.90 GHz/	
12GB DDR4/	
240GB SATA SSD/	
M2280SW 22-inch LCD Monitor)	
(13,000.00 each)	
SOFTWARE	
• Operating System (Windows	PHP 27,400.00
10 pro) (6,850.00 each)	
DAGWID	
BACKUP	PHP 1,400.00
 Seagate 250GB Hard Drive (350 each) 	FHF 1,400.00
TOTAL ONE TIME COST	PHP 67,800.00
TOTAL	
NA TAMENANCE	_
MAINTENANCE	
 Money Allotted for Computer Problems (Both 	PHP 2,500.00
Hardware and Software)	111 2,000.00
(2,000.00 each)	
(=, 0000000,	
Electricity Cost	PHP 1,500.00/Month
Monthly Cost of Computer	
TOTAL RECURRING COST	PHP 4,000.00
TOTAL COST	PHP 71,800.00

BENEFITS

ITEMS	COST
Increased the ability of the officers when it comes to communicate in or out of the organization.	PHP 150.00
Improved networking capabilities.	PHP 400.00 PHP 150.00
Higher productivity of the admin and officers.	
TOTAL SAVINGS	PHP 700.00

3.3.1.8 Computation for Payback Period (Website Monitoring Set-Up)

TOTAL COST:	PHP
	71,800.00
TOTAL	PHP 700.00
SAVINGS	

Payback Period = Total Costs / Total Savings

= PHP 71,800.00 / PHP 700.00

= 102.57 per year

3.3.3 Alternative no. 2

A stand-alone system is one in which each user has their own computer with a specific purpose (for example, one computer for the administration, which includes the school guidance counselor and executive assistant or clerk) and there is no connection between them. The application must be installed separately on each machine. The application must be installed separately on each machine.

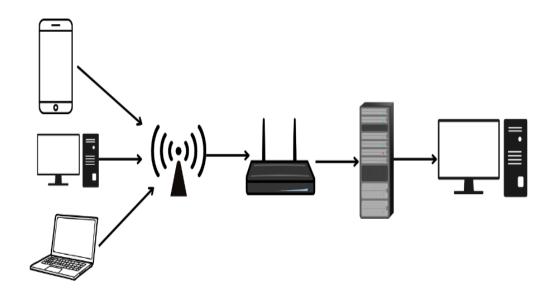
In this scenario, we recommend that the school install the recommended system on at least one computer.

Here are the advantages of this alternative:

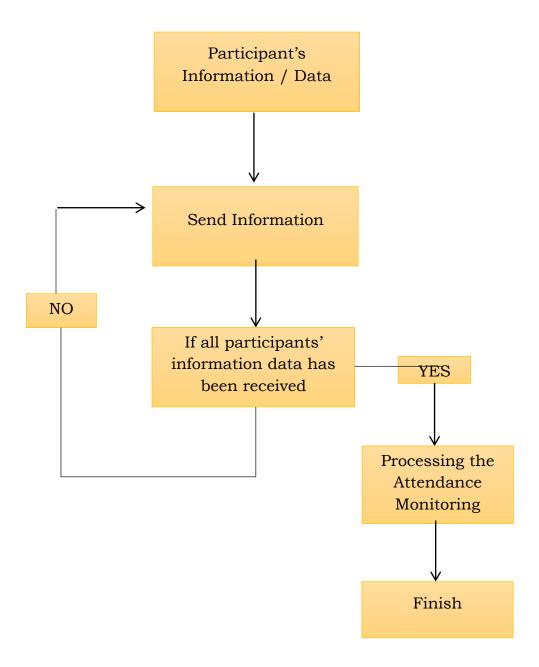
- 1. High reliability of data and processes Data access is unaffected by network solutions. The proposed system is dependent on the system's database, resulting in high data availability.
- 2. Data privacy Other computers cannot access a PC's data resources. As a result, data privacy is maintained.

3. Simplicity - standalone system costs less compared to any other computer system like a network with LAN or WAN. It is also less complicated to set-up a standalone computer system unlike other solutions that require specific set-up of actual network/s.

3.3.3 Network Layout



3.3.2.1 System Flowchart (Standalone Set - Up)



3.3.2.2Database/Tables

Participants Form

FIELD	FIELD	FIELD			
NAME	TYPE	LENG- TH	DECIMA- L	FORMA-	DESCRIPTION
NAME	ALPHANUME RIC	20	0	X(20)	The name of the member
AGE	NUMERIC	10	0	2(10)	The age of the member
ADDRESS	ALPHANUME RIC	30	0	X(30)	The address of the member
BIRTHDA -TE	DATETIME	9	0	mm/dd/ YY	Birthdate of the member
CELLPHO NE NUMBER	NUMERIC	10	0	2(10)	Cellphone number of the member

User Account

Field Nam	ıe	Field Type		Size		Decimal	
Username	:	Alphanumeric		20		0	
Password	l	Alphanumeric		20		0	
Activities Document	Ι	Dropdown	5	0		What d of activi was joined	.ty

Admin Account

Field Name	Field Type	Size	Decimal
Username	Alphanumeric	20	0
Password	Alphanumeric	20	0

3.3.2.3 Reports

The following are the reports generated by the proposed system.

- Attendance report containing all the participants have attended.
- Admin- responsible for handling and managing the admin system.
- Member the ones who participate in the upcoming event.

3.3.2.4 Manual Process (Standalone Set-Up)

- Filling out of the Registration Form
- Manual Processing of Form

3.3.2.5 Tangible and Intangible Benefits (Standalone Set-Up)

- Easy to track and update
- Much more reliable than paper writing
- Obtain the power better connection with the members

3.3.2.6 Requirement Definition (Standalone set-up)

ITEMS	Required	Existing	Needed
Hardware • 1.8 GHz or faster			
64-bit processor; Quad-core or better recommended • Minimum of 4 GB of RAM	2	0	2
 Hard disk space: Minimum of 850 MB up to 210 GB of available space 			
Software			
• 64-bit Operating System Windows 10 or higher	2	0	2

3.3.2.7 Cost and Benefit Analysis (Standalone set-up)

ITEMS	COSTS
ONE TIME COST	
Hardware	
• 1.8 GHz or faster 64-bit processor; Quad-core or better recommended	PHP 10,510
• Minimum of 4 GB of RAM	
• Hard disk space: Minimum of 850 MB up to 210 GB of available space	
• LG MP400-B Full HD IPS Monitor 24-inch	
Software	
• 64-bit Operating System	PHP 1,199
Windows 10 or higher TOTAL ONE TIME COST	PHP 11,709
RECURRING COST	
RECORRING COST	

Maintenance	
• Money Allotted for Computer Problems (Both Hardware and Software) (PHP 2,000.00 each)	PHP 5,000
Employee Cost	
STAFFVolunteer	PHP 5,000.00/ Allowance
Electricity Cost	
• Cost for Light, Electric fan, Speaker	PHP 500.00
TOTA L RECURRING COST	PHP 10, 500
TOTAL COSTS	PHP 22,209

BENEFITS

ITEMS	COSTS
Increased the ability of	
the officers when it comes	РНР 150
to communicate in or out	
of the organization.	
	PHP 400
Improved networking	
capabilities.	PHP 150
Higher productivity of the	
admin and officers.	
TOTAL SAVINGS	PHP 700

3.3.1.8 Computation for Payback Period (Standalone Set-Up)

TOTAL COST:	PHP 22,209
TOTAL SAVINGS	PHP 700

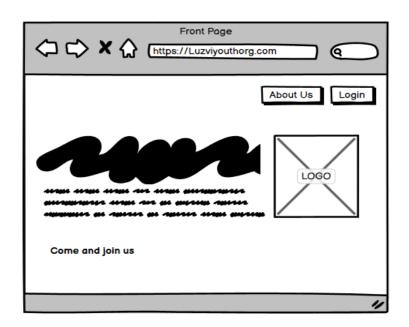
Payback Period = Total Costs / Total Savings

= PHP 22,209/ PHP 700.00

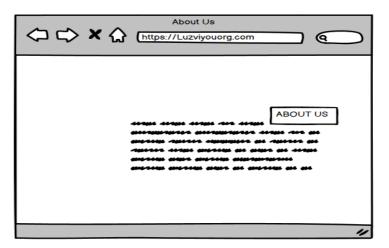
= 31.73 per year

3.3.1.9 Graphical User Interface (Mobile Application Set-Up)

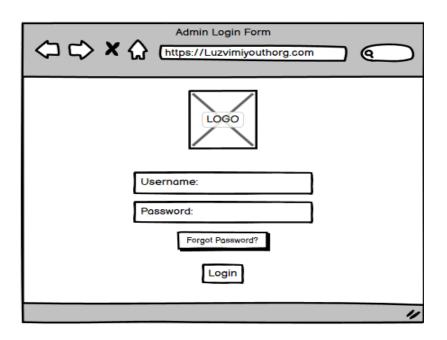
Home Page



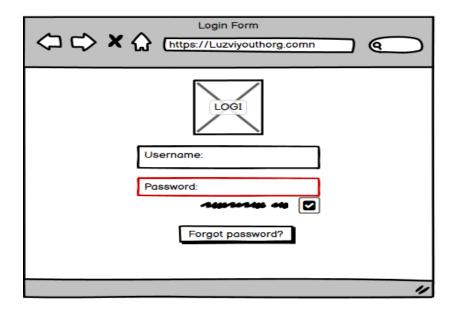
About Us



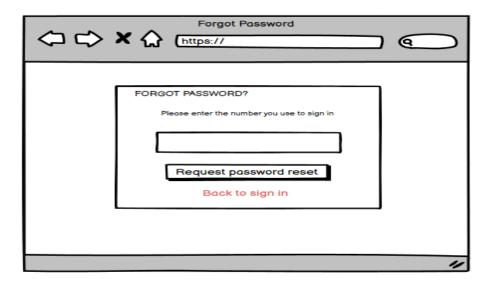
Admin Log in Form



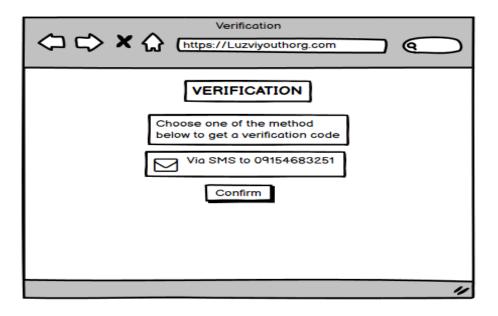
Member Log in Form

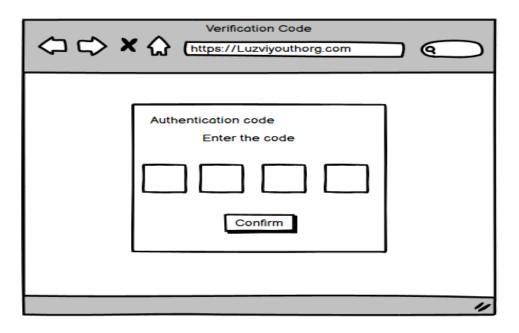


Forget Password

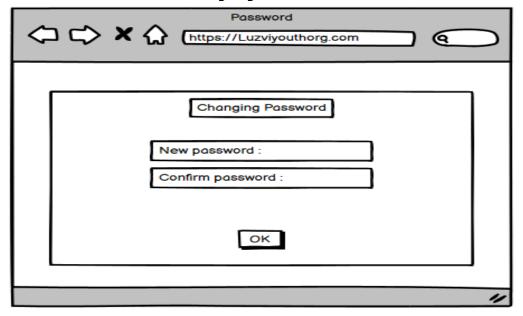


Verification

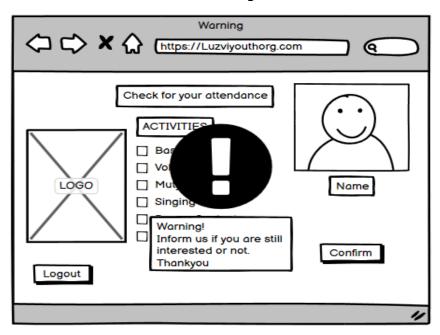




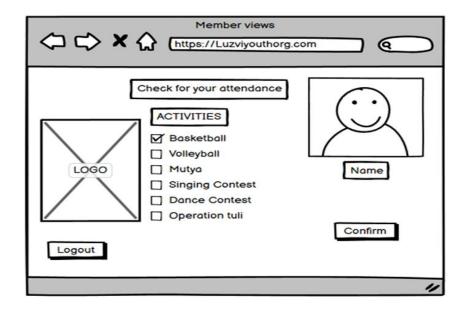
Changing Password



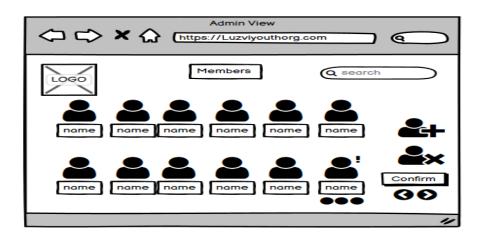
Warning

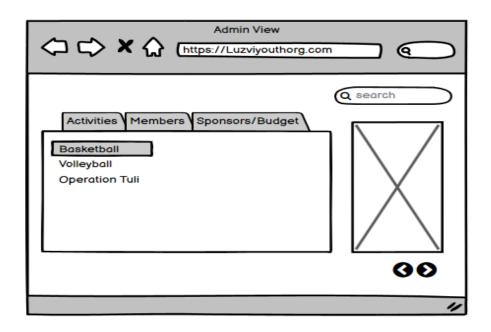


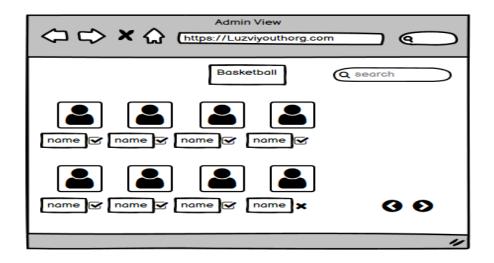
Member Views



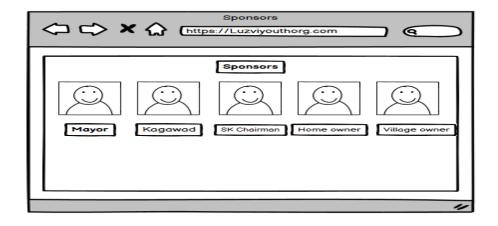
Admin View



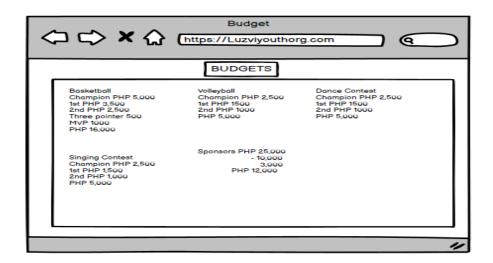




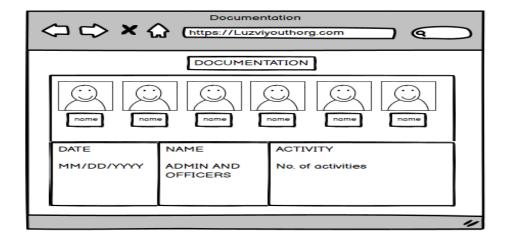
Sponsors



Budget



Documentation



3.3.3 Alternative No. 3: Centralized Set Up

The third option is to create a centralized online document request system that connects organization personnel and members/officer via a central server that manages the system's data.

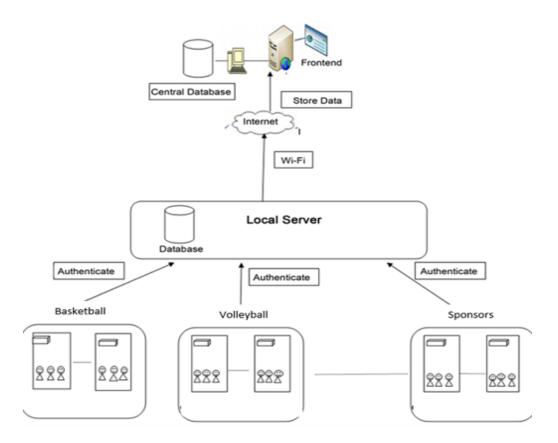
We recommend that the public sector have at least one computer with the proposed system installed in this case.

Here are the advantages of this alternative:

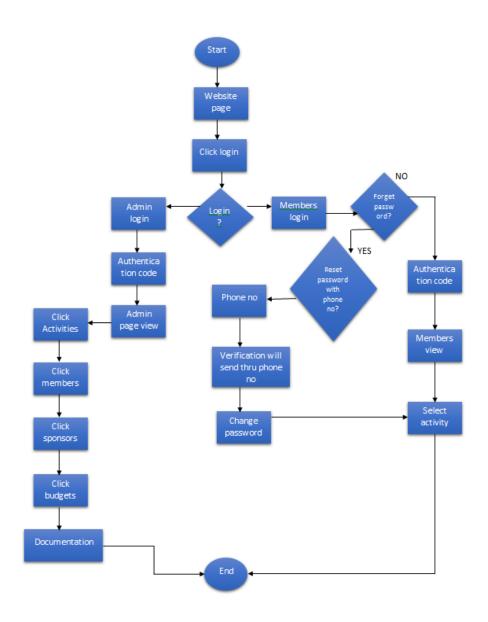
- 1. Data Integrity The single most important benefit of centralizing data management in an organization is data integrity. One of the fundamental principles of database design is that there should be no redundancy. That is, no data within the database should be duplicated. Each member has a single primary record with a single point of contact in a centralized database.
- 2. Comprehensive marketing information and history It is much easier to create reports that illustrate the wide range of activities in which your members are involved now that all of the information has been consolidated.

- 3. Data integration Because data and records are consolidated in a database, integrating them is simple.
- 4. Ease of training for personnel engaged Another benefit of a centralized system is that users' learning curves are significantly reduced. Users only need to understand one system rather than multiple systems if all processes are stored in the same database.

3.3.3 Network Layout



3.3.3.1 System Flowchart (Centralized Set Up)



3.3.3.2 Database/Tables (Centralized Set Up) Participants Form

FIELD	FIELD	FIELD			
NAME	TYPE	LENG- TH	DECIMA -L	FORMA-T	DESCRIPTION
NAME	ALPHANUMER IC	20	0	X(20)	The name of the member
AGE	NUMERIC	10	0 0 2(10)		The age of the member
ADDRESS	ALPHANUMER IC	30	0	X(30)	The address of the member
BIRTHDA -TE	DATETIME	9	0	mm/dd/y	Birthdate of the member
CELLPHO NE NUMBER	NUMERIC	10	.0 0 2(10)		Contact Number of the member

User Account

Field Name		Field Type			Size	Decimal			
Username)	Alphan	lphanumeric		20	0			
Password	l	Alphan	umeric	20		ric 20		0	
Activities Document	Ι	Oropdown	5		0	What kind of activi was joined	ty		

Admin Account

Field Name	Field Type	Size	Decimal
Username	Alphanumeric	20	0
Password	Alphanumeric	20	0

3.3.3.3 Reports

The following are the reports generated by the proposed system.

- Attendance report containing all the participants have attended.
- Admin- responsible for handling and managing the admin system.
- Member the ones who participate in the upcoming event.

3.3.3.4 Manual Process (Website Attendance Monitoring Set-Up)

- Filling out of the Registration Form
- Manual Processing of Form

3.3.3.5 Tangible and Intangible Benefits

- Easy to track and update
- Much more reliable than paper writing
- Obtain the power better connection with the members

3.3.3.6 Requirement Definition (Centralized Set Up)

- ullet Easy access to the information of the residents.
- More effective in attendance monitoring and activity monitoring

3.3.3.7 Cost and Benefit Analysis (Centralized Set Up)

ITEMS	COSTS		
ONE TIME COST			
Hardware			
4 GB ram			
Intel i5 5th gen	PHP 16, 000. 00		
500 GB hdd			
Konzert Speakers KS-450V Original Pair			
	РНР 5, 399		
TOTAL	PHP 21, 399. 00		

RECURRING COST	
Maintenance	
 Money Allotted for Computer Problems 	PHP 5,000.00
(Both Hardware and Software) (PHP	
2,000.00 each)	PHP 5,000.00/ Allowance
Employee Cost	
• STAFF	
• Volunteer	PHP 500.00
Electricity Cost	
• Cost for Light,	
Electric fan, Speaker	
TOTAL RECURRING COST	PHP 10, 500
TOTAL COSTS	PHP 31, 899

BENEFITS

ITEMS	COSTS
Higher efficiency and	PHP 500.00
productivity of staff.	
Increased ability to	PHP 200.00
communicate on members and	
officers	
	PHP 200.00
Improved networking	
capabilities.	
TOTAL SAVINGS	PHP 900.00

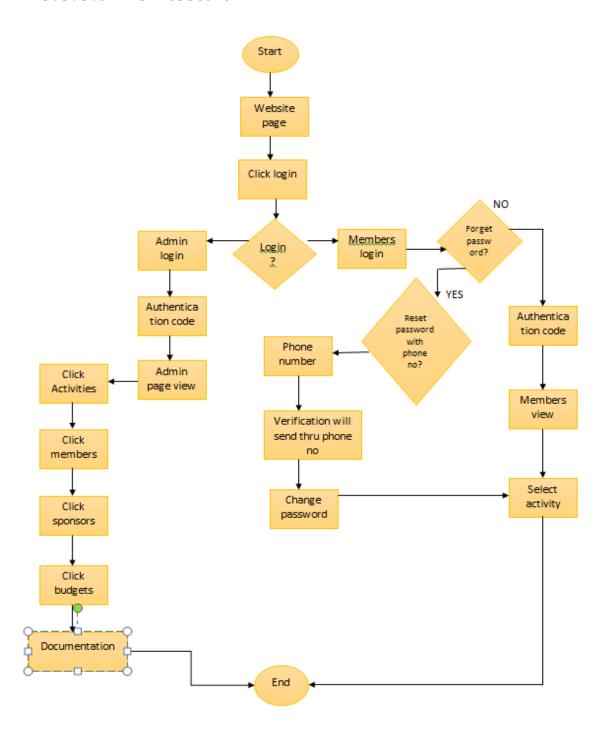
3.3.3.8 Requirement Definition (Centralized Set Up)

ITEMS	REQUIRED	EXISTING	NEEDED
Hardware4gb ram Intel i5 5th gen 500gb hdd	2	0	2
Software • Operating System	2	0	2

3.3.3.8 Computation for Payback Period (Centralized Set up)

Total Costs:	PHP 31, 899
Total Savings:	PHP 900.00

3.3.3.9 Architectural



3.3.3.9 Methodology, Step by Step and Assurance of the System

The first method is to map out the full project that will be carried out by Luzviminda Youth Organization. We also chatted with the project's beneficiaries, the president and vice president. We asked them what features they desired in the system that will be developed.

Second, based on the comments we received from the president of the youth group that would be the project's beneficiary, we evaluated the project's methodology, and this is our tool for finishing the project

The third phase is to develop the project depending on the benefactor's comments and requirements.

Fourth, the project will be implemented in the Luzviminda youth organization structure.

Finally, maintenance is required to keep the system operational. The fifth phase is to put the system through its paces to see where it falls short and where we will begin to make improvements.

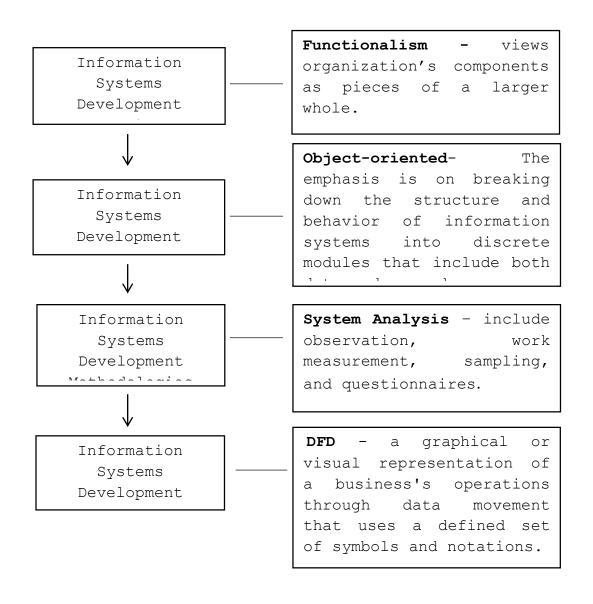
Quality assurance (QA) is any systematic process of determining whether a product or service meets specified requirements. We gathered information regarding on the security of the organization, we ensure that system we are proposing could handle any data without losing and be stolen by someone.

Weak data security can lead to key information being lost or stolen, create a poor experience for the user's that can lead to lost any personal information, and reputational harm in one organization does not implement sufficient protections over user's data and information security weaknesses are exploited by hackers.

The level of importance of information security in organizations is a measure of how high they prioritize their members having a secure foundation. Protecting your information and keeping the organizational and client data secure is fundamental to organization's strength and growth.

Chapter 4 Methodology

4.1 Research and System Development method



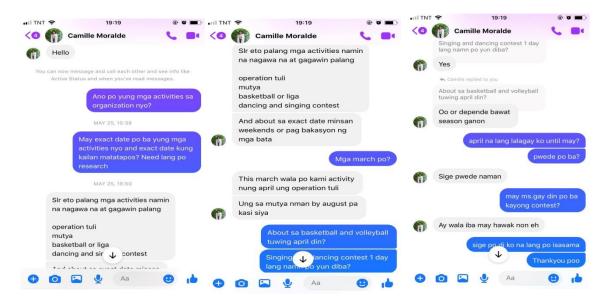
4.2 Data Collection

We conducted a research about the Luzviminda youth organization history and we found out that the organization was founded in 2018 for the teenagers for them to be productive. They developed and promote some platforms every year example of this is the personal rights and mental health problem, sport fest named "BOLA KONTRA DROGA", in which they organized gaming competition Featuring mobile legends, Call of Duty, Rules of Survival, and other games to make the youth of

Luzviminda organization's more beneficial. Apparently, the COVID-19 happened, and they now have a new system in Education, with online classes. Some kids can't buy a gadget, but they want to continue their studies, so they campaigned to get them a free laptop in college, a free tablet in high school, and a free load every month and other necessaries that are needed for their education.

We also gathered a data by asking them a question through social media (Via Messenger).

See photos below (Filipino Language).



4.3 Ethical Issues

Social Benefit- Our study is big help to the society of Luzviminda Youth Organization; Especially to the youth member. Because our study is easy to monitor the participants less hassle unlike their old way of monitoring.

Researcher Competence- We the researcher is a component and sign of professional competence, implying the possession of technologically advanced research abilities and methodologies in order to solve managerial challenges, establish a career in accordance with current society's ideals, and achieve the desired personal outcome.

Free Choice- It is beneficial for us to be able to choose the beneficiaries we want because our beneficiaries are easy to speak with, eager to provide us with the information we require, and have time for us.

Informed Consent- Our beneficiary gives us permission to propose a system based on their needs, and we present them with our proposal as well as a letter that they must sign as proof that we have consented to them as their beneficiary.

Risk of Harm to the Subject- The most typical issue they will have is that they will be unable to open the website without access to the internet because it is only accessible via the internet.

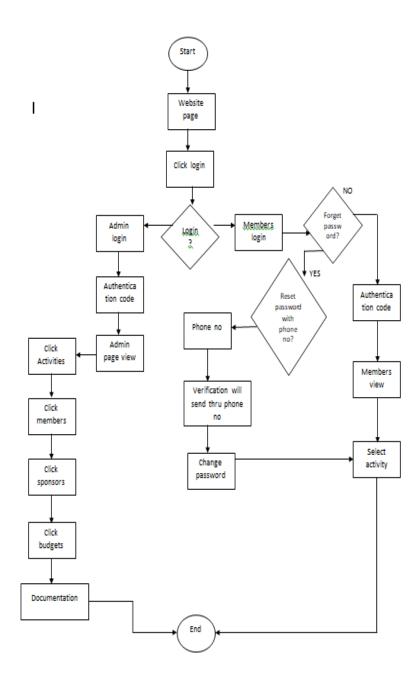
4.4. Compliance Requirements

Old ways

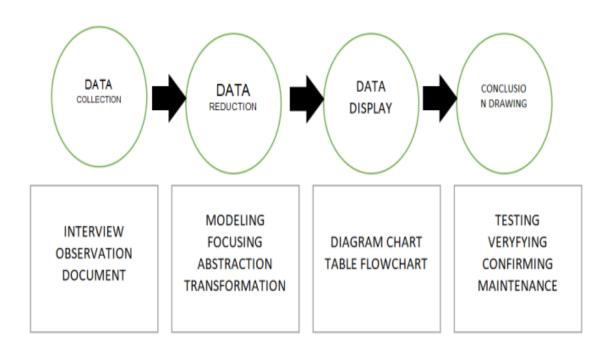
• Manual Process

Members and guests should not have an account before going to the Luzviminda Youth Organization. The admin will give a form that the members and guests must fill out for the application of the account and the admin will be the one to create the account. The member and guests must be patient while the admin is creating the account.

New ways



4.5 Analysis of Data



4.6 Project Plan Deliverables

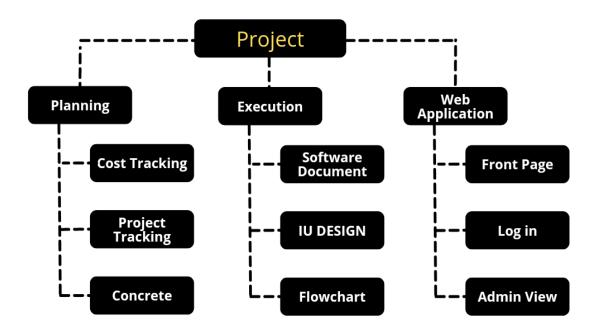


4.7 Work Breakdown Structure (WBS)

WORK BREAKDOWN STRUCTURE

STEP 1:

Work Breakdown Structure



STEP 2:

The beloved panelist recommended that we implement database access restrictions in our system that protects databases

from compromises in their privacy, integrity, and affordability. Database safety

Safeguards not only the database's data but also the database management system and any applications use it against misappropriation, harm, and encroachment

They also suggest a Quality Assurance and Security for the user's information after log in must be protected and safe

Step 3:

A Web application that we created for the youth to easily access to our system and to be updating and convenient this system using by the MYSQL

4.8 Risk Analysis

RISK ASSESMENT

Hazard
Identificatio
n

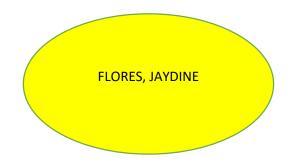
RISK COMMUNICATION

Exchange of information involving risk

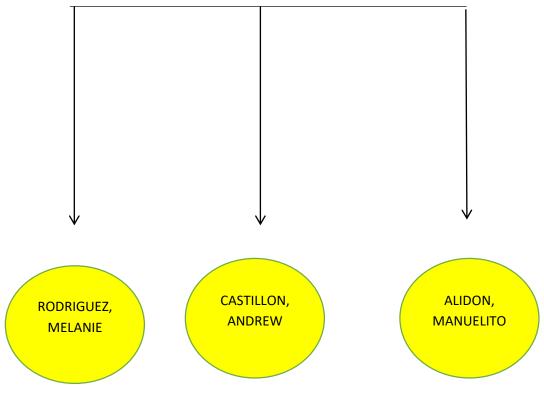
RISK MANAGEMENT

Policies and management decisions on risk

4.9 Duration



PROGRAMMER/DESIGNER



DATA COLLECTOR ANALYSIS

GRAMMARIAN

4.4.1 Panelist Recommendation and Possible Solution

- Quality Assurance and Security The user's information after log in must be protected and safe, we have to make sure that we satisfy the user for their data protection.
- ➤ Data Traffic We will make a schedule for the users to avoid traffic.
- ➤ Monitoring Aside from monitoring the attendance, the system has the function of monitor and control financial activity.
- > Sponsors and budget
- > Reports

List of Appendices

LYO - Luzvimindan Youth Organization

Org - Organization

NGO - Non-Governmental Organization

Striving - Make a great effort to achieve something

Lament - A passionate expression of grief or sorrow

LGU - Local Government Unit

Dataflow - A computer architecture that utilize multiple parallel processors to perform simultaneous operation as data become available

Maneuverability - Capable of being steered directed

Alphanumeric - Consisting of using both letters and

numbers

Tangible - perceptible by touch

Intangible - unable to touch

LAN - Local area network

WAN - Wide area network

Flowchart - Type of diagram that represents a process