



Barangay Masambong Equipment Management System

This project is submitted in **partial fulfillment of the course requirement** for **System Integration and Architecture 2**, as part of the **midterm examination** for the first semester of the academic year 2025–2026.

The system was developed by the following group members:

- **[Capuyan, Edcel]**, [Project Leader]
- **[Beruño, Marlo]**, [Documents Leader]
- **[Cruz, Alejandro]**, [Documents Leader]
- **[Ducusin, Leonard]**, [Communication Leader]
 - **[Irwin, Billgreg]**, [QA Leader]
- **[Ortiz, Angelo France]**, [Technical Leader]

This document is respectfully submitted to:

Prof. Ernanie M. Carlos Jr.

Section

[BSIT 4-B].

Date of Submission:

[24/10/2025]



CHAPTER 1

Project Overview

This chapter provides a comprehensive overview of the project, beginning with the **project title**, followed by the identification of **team members**, including their respective roles and contact information. It also outlines the **project duration** and presents the **context** in which the project is developed. Furthermore, the chapter defines the **scope** of the project and includes a section on **definitions, acronyms, and abbreviations** to ensure clarity and consistency throughout the document.

1.1 Project Name

Barangay Masambong Equipment Management System

1.2 Project Members

Name	Designation	E-mail
Capuyan, Edcel A.	Project Leader	capuyan.e.bsinfotech@gmail.com
Beruño, Marlo	Documentation Leader	beruno.m.bsinfotech@gmail.com
Cruz, Alejandro	Documentation Leader	cruz.a.bsinfotech@gmail.com
Ducusin, Leonard	Communication Leader	ducusin.l.bsinfotech@gmail.com
Irwin, Billgreg	QA Leader	irwin.billgreg.bsinfotec@gmail.com
Ortiz, Angelo France	Technical Leader	ortiz.af.bsinfotech@gmail.com

1.3 Project Duration and activities

The Data Gathering, Planning, and Designing phase of the project will take place during the first semester of School Year 2024–2025, during this phase, the team will conduct requirements analysis, gather data through interviews or surveys,



and create detailed plans for the project. This will include defining the project scope, creating system designs such as wireframes and database schemas, and outlining the overall architecture of the system.

The Development, Implementation, Testing, and Integration phase will be carried out during the first semester of School Year 2025–2026. In this phase, the actual coding and system development will take place, followed by implementation of the system. After development, the system will undergo rigorous testing, including unit testing, integration testing, and user acceptance testing. The final step in this phase will involve integrating the system into the intended environment and preparing documentation for final evaluation or presentation

1.4 Background

Barangay Masambong maintains community equipment (tents, tables, chairs) used for public and private events. Currently, booking and inventory are handled manually which leads to scheduling conflicts, double-bookings, unclear accountability on damage or loss, and limited reporting for barangay administrators. The barangay needs a transparent, auditable, and user-friendly system that allows verified residents to reserve equipment, enables staff to verify residents and inspect returns, and provides superadmins with inventory control and reporting tools.

This project builds a web-based management system to automate the reservation lifecycle, enforce business policies (e.g., 30-day advance booking,



7-day cancellation block), enable resident verification via ID + selfie, and maintain a full audit trail of equipment movements.

1.4 Purpose

The purpose of this project is to design and develop a secure, reliable, and auditable Equipment Management System for Barangay Masambong that will:

- Streamline reservations and prevent double-booking.
- Ensure only verified barangay residents may reserve equipment (via ID + selfie verification).
- Provide staff with tools for inventory management, return inspection, and damage fee assessment.
- Maintain a complete audit trail for accountability.
- Produce weekly/monthly reports on equipment utilization, requests, approval rates, and damages.
- Improve transparency and reduce administrative overhead for barangay staff.

1.5 Scope

This section defines the boundaries of the project, detailing the features that will and will not be included in the system.

1.5.1. Included

Borrower/Resident Module

User Validation: Requires residents to submit their Full Name, an image of a valid ID, and a selfie with their ID for validation.



Reservation Request: Allows users to submit requests with a note for the occasion and select from three specific time slots:

Morning Half-Day (7:00 AM - 12:00 PM)

Afternoon Half-Day (1:00 PM - 6:00 PM)

Full Day (7:00 AM - 5:00 AM next morning)

Cancellation Policy: Allows users to cancel a reservation, but only if the reservation date is more than 7 days away.

SK Council (Admin) Module

Request Management: A dashboard to review and validate new borrower requests and approve or decline reservation requests.

Damage and Fee Management: A function to log returned equipment, mark items as damaged, and assign a fee to the borrower if the item is non-repairable (e.g., Chair: 420php, Table: 1,800php, Tent: 6,500php).

System/Backend Module

Conflict Prevention: Automatically prevents double-booking by checking for date/time conflicts before confirming a reservation.

Booking Limits: Enforces a maximum advance booking limit of 30 days for all residents.

Real-Time Inventory: Tracks partial quantities of equipment (e.g., "5 of 10 chairs available") and allows for simultaneous reservations. Inventory is updated immediately upon cancellation.



Superadmin/Reporting Module

Audit Trail: A complete log tracking every inventory movement (additions/removals) with timestamps and staff accountability.

Graphical Reports: Generation of weekly and monthly graphs visualizing data on total borrowings, requests (accepted/declined), and occasions.

1.5.2. Excluded

Native Mobile Application: The system will be web-based and accessible via a browser. A native mobile app (iOS or Android) is not included in this phase.

Automatic Notifications: Automatic SMS or email notifications for reservation reminders or confirmations are not included in the initial version.

Offline Functionality: The system requires a stable internet connection to function. Offline access or data syncing is not supported.

Online Payments: The system will track damage fees owed by a borrower, but it will not include an integrated online payment gateway for settling these fees.

1.6 Definitions, Acronyms, and Abbreviations

SK: Sangguniang Kabataan. The youth council of a barangay in the Philippines.

Admin: Administrator. Refers to the SK Council user with privileges to manage the system, approve requests, and track inventory.

Audit Trail: A chronological log of all actions and changes made within the system, used to ensure staff accountability.





BENEFICIARY PROFILE

INFORMATION:

NAME	:	SK BRGY. MASAMBONG COUNCIL
YEAR ESTABLISHED	:	2023
NO. EMPLOYEES	:	9
NATURE OF BUSINESS	:	YOUTH DEVELOPMENT ORGANIZATION

HISTORY:

The Sangguniang Kabataan (SK) Council of Barangay Masambong was established in 2023 as part of the mandated youth representation under the Local Government Code of 1991. As a newly organized youth governing body, the SK Council serves as the voice of the barangay youth sector and is tasked to plan and implement programs that focus on leadership development, sports, education, health awareness, and community participation.

Since its establishment, the SK Council has initiated small-scale projects such as community clean-up drives, youth engagement activities, and barangay participation programs. However, being newly formed, the council faces challenges in documentation, project monitoring, and sustaining active youth participation.

Through the proposed project, the SK Council of Barangay Masambong will be able to improve its organizational processes, strengthen its program implementation, and maximize the impact of its initiatives for the benefit of the youth in the community.

MISSION:

- To develop a user-friendly tracking system that simplifies the process of borrowing tents and chairs.
- To promote accountability and proper documentation of borrowed equipment.
- To support SK Masambong in providing quality service and reliable logistics for community events.
- To maximize the use of barangay resources through efficient monitoring and management

VISION:

To provide a transparent, organized, and efficient system for managing the borrowing of tents and chairs, ensuring that every youth and community event in Barangay Masambong is well-supported, accessible, and sustainable, while promoting accountability, resource optimization, and stronger community participation.

ORGANIZATIONAL STRUCTURE:

During our interview, we inquired about the organizational structure of their barangay. According to Secretary Borja, their barangay is composed of the following:

- Barangay Officials: 1 Barangay Captain, 7 Kagawads, 1 Secretary, and 1 Treasurer
- Sangguniang Kabataan (SK): 1 SK Chairman, 5 SK Kagawads, 1 SK Secretary, and 1 SK Treasurer
- Community Support Units: Bantay Bayan (Barangay Watchmen), Health Center staff, Fire Volunteers, and Medical Personnel

This structure highlights the presence of barangay leaders, youth representatives, and community support groups who collaborate to uphold safety, promote health, and deliver essential public services.

BACKGROUND / PROBLEM

In Barangay Masambong, one of the recurring challenges faced by the Sangguniang Kabataan (SK) Council is the management of borrowing and scheduling of tents and chairs for community and youth events. At present, the barangay relies on a manual recording system, where reservations and borrowings are written only on paper. This often leads to problems such as unreturned items, lack of accurate tracking of available tents and chairs, and confusion regarding who reserved or scheduled their use. As a result, there are instances when the barangay is unable to provide the necessary equipment because records are incomplete or misplaced. This manual system not only causes inconvenience to residents but also affects the efficiency of the SK Council in delivering quality service and support for community activities.

OBJECTIVES:

- To develop an efficient and reliable tracking system that will streamline the process of borrowing and reserving tents and chairs in Barangay Masambong, ensuring transparency, accountability, and accessibility for the community.
- To replace the manual paper-based recording with a digital system that can track reservations and borrowed items in real time.
- To provide accurate information on the availability of tents and chairs to avoid double bookings and scheduling conflicts.
- To record borrower details properly for accountability and easier monitoring of returns.
- To generate organized records and reports for the SK Council for better resource management.
- To enhance the quality of service delivery of the SK Council by ensuring that community and youth events are well-supported with the necessary equipment.

Prepared by:

Marlo Beruño and Alejandro Cruz
Leader, Documentation

Checked by:

Billgreg Irwin
Leader, Quality Assurance

Approved by:

Edcel Capuyan
Leader, Project

Noted by:

Ernanie M. Carlos Jr., MIT
Adviser



September 17, 2025

JAMES NITAFAN
Sk Chairman
Brgy. Masambong
Masambong Quezon City

 9/17/25

Mr. James Nitafan

Greetings!

We are fourth-year BSIT students from the Euloio "Amang" Rodriguez Institute of Science and Technology (EARIST). As part of our course, **System Integration and Architecture**, we are required to identify an institution that will serve as the beneficiary of our project proposal.

With this, we respectfully request your approval to select your institution as our beneficiary. Our project aims to study and improve your current processes by proposing a more efficient system.

To accomplish this, we seek your permission to conduct a system study, which will include interviews and data gathering. If granted, we would appreciate it if you could provide us with a convenient schedule for the interview.

We are committed to ensuring that this project will not only fulfill our academic requirements but also bring meaningful contributions to your institution. We sincerely appreciate your consideration and look forward to your positive response.

Yours sincerely,

CAPUYAN EDCEL

BERUÑO MARLO

DUCUSIN LEONARD

CRUZ, ALEJANDRO

ORTIZ, ANGELO

IRWIN, BILLGREG

Noted by:


ERNANIE M. CARLOS JR., MIT
Course Adviser



Eulogio "Amang" Rodriguez Institute of Science and Technology

College of Computing Students
System Integration and Architecture
System Work Breakdown Structure



	System Development			SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER				JANUARY				
	Activity	Duration	Status	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
1	MOM1(Brainstorming)		Done		■																			
2	MOM2 (preparing questions for beneficiary)		Done			■																		
3	Letter for beneficiary		Done					■																
4	Interview		Done						■															
5	Brainstorm		Done							■														
6	MOM3(Preparing the presentation)		Done							■														
7	MOM4(Actual Presentation with sir)		Done							■														
8	MOM5(doing the chapter 1)		Done								■													
9	Creating the Login and Register of System											■												
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Legend
■ Done
■ In-Progress
■ Pending

Note:
Color shade to use for weekly activity.



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SYSTEM INTEGRATION AND ARCHITECTURE 1

- MINUTES OF THE MEETING -

DATE : September 5, 2025

VENUE : Google Meet

TIME : 7:15 PM

ATTENDEES

1. Edcel Capuyan	Ecapuyan
2. Leonard Ducusin	
3. Marlo Beruño	
4. Alejandro Cruz	
5. Angelo Ortiz	
6. Billgreg Irwin	

AGENDAS:

- A. Designations
- B. Group Agreement
- C. Beneficiary

DISCUSSIONS:

A. Designations

During our group meeting, we discussed and finalized the roles and responsibilities to be assumed by each member in order to properly manage our project for our chosen beneficiary, Barangay SK. To promote fairness, we applied a democratic process where each member's input and preference were considered.

After deliberation, Edcel Capuyan was appointed as the Project Leader. His leadership skills and commitment made him the ideal choice to oversee the project's overall direction and ensure its success.



For documentation, Leonard Ducusin and Marlo Beruño were designated as the Documentation Leaders, responsible for maintaining accurate, detailed, and organized records of the project's progress and activities.

To ensure effective communication within the group and with external stakeholders, Alejandro Cruz was assigned as the Communication Leader. His role is to manage information flow, announcements, and updates to maintain coordination.

For the technical aspect, Billgreg Irwin was appointed as the Technical Leader, tasked with overseeing the technical development of the project and ensuring that the system functions smoothly.

Lastly, to maintain quality standards, Angelo Ortiz was assigned as the Quality Assurance (QA) Leader, responsible for reviewing project outputs and ensuring that deliverables meet the required level of excellence.

Aside from finalizing designations, the group also discussed the project beneficiary and agreed to select Barangay SK. This decision was based on the importance of the SK in promoting youth development, leadership, and active community participation. Possible project ideas were raised, including a Barangay SK Management System, Event and Activity Monitoring System, Financial Reporting System, and a Communication and Information System. These proposals will be reviewed further in the next meeting to determine the most suitable project to implement.

These role assignments and project considerations were reached through a collaborative decision-making process, ensuring that each member's strengths and capabilities were aligned with their respective responsibilities. With this structure, our group is confident in achieving an efficient workflow and producing a successful project outcome for the Barangay SK.

B. Group Agreement

The group agreed to distribute tasks fairly among members, considering each one's skills, time, and availability to ensure balance and productivity. Flexibility was emphasized to accommodate different schedules, preventing delays and imbalances in the workload.

To maintain discipline, the group decided to enforce stricter guidelines, with all members committing to follow timelines and responsibilities. Open communication and mutual respect were highlighted as essential in resolving challenges and supporting one another throughout the project.



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NAGTAHAN, SAMPALOC, MANILA

COLLEGE OF COMPUTING STUDIES



Through this agreement, the members committed to fairness, accountability, and cooperation, ensuring that the project for Barangay SK would be completed successfully through shared effort and dedication.



Proof of Engagement:

You have extensions installed that may affect the quality of your call Learn more Dismiss

DUCUSIN, Leonard D. (Presenting)

meet.google.com/dmm-jrpg-ch

SYARCH 1 - minutes of the meeting

DATE: September 5, 2023
TIME: 7:27 PM

ATTENDEES:

- 1. Eder Casiano
- 2. Leonard Ducusin
- 3. Mario Beruno
- 4. Alejandro Cruz
- 5. Angelo Ortiz
- 6. Billigreg Irwin

AGENDAS:

- A. Designations
- B. Group Agreement
- C. Beneficiary

DISCUSSIONS:

- A. Designations
 - Insert Discussion notes-
- B. Group Agreement
 - Insert Discussion notes-

Irwin, Billigreg is sharing your screen Stop sharing Hide

7:27 PM | dmm-jrpg-ch

CRUZ, Alejandro

Irwin, Billigreg

Ortiz, Angelo France, A.

CAPUYAN Edcel A.

BERUNO, Mario A.

DUCUSIN, Leonard D.

Irwin, Billigreg

CRUZ, Alejandro

Ortiz, Angelo France, A.

CAPUYAN Edcel A.

7:27 PM | 05/09/2023

You have extensions installed that may affect the quality of your call Learn more Dismiss

DUCUSIN, Leonard D. (Presenting)

meet.google.com/dmm-jrpg-ch

SYARCH 1 - minutes of the meeting

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Document table Tab 1

Meeting notes

DATE: September 5, 2023
TIME: 8:00 PM

ATTENDEES:

- 1. Eder Casiano
- 2. Leonard Ducusin
- 3. Mario Beruno
- 4. Alejandro Cruz
- 5. Angelo Ortiz
- 6. Billigreg Irwin

AGENDAS:

- A. Designations
- B. Group Agreement
- C. Beneficiary

DISCUSSIONS:

- A. Designations
 - Insert Discussion notes-
- B. Group Agreement
 - Insert Discussion notes-

Irwin, Billigreg is sharing your screen Stop sharing Hide

8:00 PM | dmm-jrpg-ch

DUCUSIN, Leonard D.

BERUNO, Mario A.

Irwin, Billigreg

CRUZ, Alejandro

Ortiz, Angelo France, A.

CAPUYAN Edcel A.

Irwin, Billigreg

CRUZ, Alejandro

Ortiz, Angelo France, A.

CAPUYAN Edcel A.

8:00 PM | 05/09/2023



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Meeting adjourn at: 8PM

Prepared by:

Leonard Ducusin and Marlo Beruño
Documentation Leader

Reviewed by:

Angelo Ortiz
QA Leader

Alejandro Cruz
Communication Leader

Billgreg Irwin
Technical Leader

Checked by:

Edcel Capuyan
Project Leader



SYSTEM INTEGRATION AND ARCHITECTURE

- MINUTES OF THE MEETING -

DATE : 09-08-25
VENUE : MIS BUILDING 303
TIME : 3:40PM

1. Edcel Capuyan	Ecapuyan
2. Leonard Ducusin	
3. Marlo Beruño	
4. Alejandro Cruz	
5. Angelo Ortiz	
6. Billgreg Irwin	

AGENDAS:

- A. Designations
- B. Group Agreement
- C. Beneficiary

DISCUSSIONS:

A. Designations

During our group meeting, we discussed and finalized the roles and responsibilities to be assumed by each member in order to properly manage our project for our chosen beneficiary, Barangay SK. To promote fairness, we applied a democratic process where each member's input and preference were considered.



B. Group Agreement

We agreed to take the necessary steps to complete our tasks and secure the approval of Sir Ernanie to sign the letter addressed to the beneficiary. On this day, we also continued planning our next steps, which will be carried out after next week.

C. Beneficiary

The group conducted a thorough assessment of Barangay Masambong SK's current status, focusing on their recent programs, activities, and initiatives. We examined their organizational capacity, financial standing, and the challenges or changes they may have encountered.

As part of this process, the group agreed to follow up with the beneficiary after our initial communication and proceed to Sir Ernanie for the signing of the endorsement letter. This step will formalize our engagement with Barangay Masambong SK and allow us to move forward with the next phase of our project planning.



Meeting adjourn at 4:20pm

PROOF OF ENGAGEMENT





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COLLEGE OF COMPUTING STUDIES



Prepared by:

Marlo Beruño & Alejandro Cruz
Leader Documentation

Reviewed by:

Billgreg Irwin
QA Leader

Leonard Ducusin
Communication Leader

Angelo Ortiz
Technical Leader

Checked by:

Edcel Capuyan
Project Leader



SYSTEM INTEGRATION AND ARCHITECTURE

- MINUTES OF THE MEETING -

DATE : 10-06-25
VENUE : MIS BUILDING 303
TIME : 4:12PM

1. Edcel Capuyan	Ecapuyan
2. Leonard Ducusin	
3. Marlo Beruño	
4. Alejandro Cruz	
5. Angelo Ortiz	
6. Billgreg Irwin	

AGENDAS:

- A. Designations
- B. Group Agreement
- C. Beneficiary

DISCUSSIONS:

A. Designations

During our group meeting, we discussed our initial presentation and how we would approach it for our chosen beneficiary, Barangay SK. To promote fairness and inclusivity, we adopted a democratic approach, allowing every member to share their input and preferences before finalizing our plans.



B. Group Agreement

We agreed that each member would have a specific topic to present in the report. On this day, we also continued planning our next steps, which will be carried out after next week.

C. Beneficiary

The group conducted a thorough assessment of Barangay Masambong SK's current status, focusing on their recent programs, activities, and initiatives. We examined their organizational capacity, financial standing, and the challenges or changes they may have encountered. As part of this process, the group agreed to follow up with the beneficiary after our initial communication and proceed to Sir Ernanie for the signing of the endorsement letter. This step will formalize our engagement with Barangay Masambong SK and allow us to move forward with the next phase of our project planning.



Meeting adjourn at 4:51pm

PROOF OF ENGAGEMENT





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Prepared by:

Marlo Beruño & Alejandro Cruz
Documentation Leader

Reviewed by:

Billgreg Irwin
QA Leader

Leonard Ducusin
Communication Leader

Angelo Ortiz
Technical Leader

Checked by:

Edcel Capuyan Project Leader



SYSTEM INTEGRATION AND ARCHITECTURE

- MINUTES OF THE MEETING -

DATE : 10-13-25
VENUE : MIS BUILDING 303
TIME : 6:00PM

1. Edcel Capuyan	Ecapuyan
2. Leonard Ducusin	
3. Marlo Beruño	
4. Alejandro Cruz	
5. Angelo Ortiz	
6. Billgreg Irwin	

AGENDAS:

- A. Designations
- B. Group Agreement
- C. Beneficiary

DISCUSSIONS:

A. Designations

During our group meeting, we prepared to present and conducted a dry run of our presentation before the given time. To promote fairness and inclusivity, we adopted a democratic approach, allowing every member to share their input and preferences before finalizing our plans.



B. Group Agreement

We agreed to implement policies to ensure the proper execution and management of the system's usage. We also began implementing changes to our system and updating the terms and conditions based on our professor's suggestions. On this day, we continued planning our next steps, which will be carried out after next week.

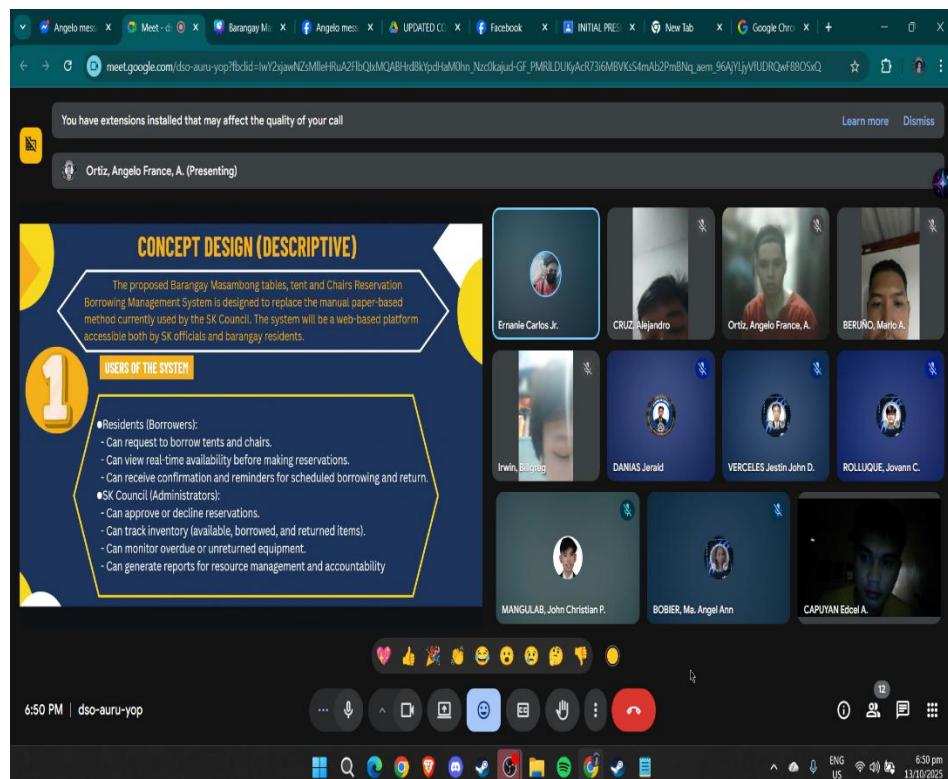
C. Beneficiary

The group conducted a thorough assessment of Barangay Masambong SK's current status, focusing on their recent programs, activities, and initiatives. We examined their organizational capacity, financial standing, and the challenges or changes they may have encountered. As part of this process, the group agreed to follow up with the beneficiary after our initial communication and proceed to Sir Ernanie for the signing of the endorsement letter. This step will formalize our engagement with Barangay Masambong SK and allow us to move forward with the next phase of our project planning.



Meeting adjourn at 7:30pm

PROOF OF ENGAGEMENT





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Prepared by:

Marlo Beruño & Alejandro Cruz
Documentation Leader

Reviewed by:

Billgreg Irwin
QA Leader

Leonard Ducusin
Communication Leader

Angelo Ortiz
Technical Leader

Checked by:

Edcel Capuyan
Project Leader



SYSTEM INTEGRATION AND ARCHITECTURE

- MINUTES OF THE MEETING -

DATE: 10-22-25

VENUE: MIS BUILDING 303

TIME 11:00PM

1. Edcel Capuyan	Ecapuyan
2. Leonard Ducusin	
3. Marlo Beruño	
4. Alejandro Cruz	
5. Angelo Ortiz	
6. Billgreg Irwin	

AGENDAS:

- A.Designations**
- B.Group Agreement**
- C.Beneficiary**

DISCUSSIONS:

A. Designations

During our group meeting, we prepared to work on our assigned task, which is Chapter 1 of the project. We also discussed the necessary changes and improvements based on our professor's suggestions to ensure the quality of our work.



B. Group Agreement

During our group meeting, we agreed to work collaboratively on our assigned task, which is Chapter 1 of the project. Each member committed to contributing their part to ensure the chapter's completion on time. We also agreed to apply the necessary changes and improvements based on our professor's suggestions to enhance the overall quality of our work. Furthermore, we decided to maintain open communication and cooperation throughout the process to achieve our project goals effectively.

C. Beneficiary

The group conducted a thorough assessment of Barangay Masambong SK's current status, focusing on their recent programs, activities, and initiatives. We examined their organizational capacity, financial standing, and the challenges or changes they may have encountered.

As part of this process, the group agreed to follow up with the beneficiary after our initial communication and proceed to Sir Ernanie for the signing of the endorsement letter. This step will formalize our engagement with Barangay Masambong SK and allow us to move forward with the next phase of our project planning.



Meeting adjourn at 12:05AM

PROOF OF ENGAGEMENT

A screenshot of a Google Meet video conference. The top bar shows multiple tabs including 'SYSARCH2 | Messen...', 'Meet - tny-fmvf-jtr', 'SYSARCH 2 - Minute...', 'SYSARCH 2 - Minute...', 'To-do', 'Google Sheets: On...', and 'Copy of Group of C...'. The URL in the address bar is 'meet.google.com/tny-fmvf-jtr'. A message at the top says 'You have extensions installed that may affect the quality of your call' with 'Learn more' and 'Dismiss' buttons. The participant list on the left shows 'BERUÑO, Mario A. (Presenting)'. The main video frame displays a presentation slide with the following content:

CHAPTER 1

INTRODUCTION TO SYSTEM INTEGRATION AND ARCHITECTURE

This chapter introduces the essential ideas behind building and integrating technology systems. We begin with **System Integration**, which focuses on linking different systems and applications as they work together as one. We then move to **System Architecture**, the blueprint that guides how systems are designed and organized. You will learn how to evaluate existing system architectures and propose improvements to smoother and more successful integration. We will also discuss the importance of information technology solutions in solving real-world problems, as well as explore the system components and interfaces that enable effective communication, interoperability, and scalability across platforms.

Learning Objectives:

By the end of our discussion, you will have achieved the following learning objectives:

- Define key concepts of system integration and system architecture.
- Explain the relationship between system integration and system architecture.
- Illustrate how system integration and architecture are implemented in real-world systems.
- Differentiate system components and how these elements affect the performance and scalability of IT systems.
- Evaluate the effectiveness of a given system architecture in supporting integration, and propose improvements that enhance its performance.

The bottom of the slide has a footer with 'Page 1 / 14' and a red 'Next' button. Below the main video frame, there is a toolbar with various icons: three dots, a microphone, a square, a laptop, a blue circle with a smiley face, a document, a hand, a red circle with a dot, and a red refresh button. The bottom right corner shows a small circular icon with the number '5' and a status bar with '11:39 PM | tny-fmvf-jtr', 'ENG US', a signal icon, and '22/10/2025'.



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COLLEGE OF COMPUTING STUDIES



Prepared by:

Marlo Beruño & Alejandro Cruz
Leader Documentation

Reviewed by:

Billgreg Irwin
QA Leader

Leonard Ducusin
Communication Leader

Angelo Ortiz
Technical Leader

Checked by:

Edcel Capuyan
Project Leader