

BCS3143 SOFTWARE PROJECT MANAGEMENT

PROJECT #1

SECTION:1A GROUP NAME:A7

MEMBERS:

(please sort by Matrix ID)

NO	ID	NAME
1	CB22159	MOHAMAD NAZAMEERUL BIN
		MOHAMAD NAPI
2	CB22160	GAN JUN WEI
3	CB24152	DONDOK ANDI BINTANG TOAR
4	CB24153	HENDIANTO MOHAMMAD FARID

Youtube link	https://youtu.be/IO4XS3XsLNo
Discussion	

INSTRUCTION:

Read, analyze and synthesize the project case study below. All following tasks are based on this project case study. WHAT YOU NEED TO DO:

- 1. DISCUSS IN GROUP, WRITE THE ANSWER IN THE BOX THEN SAVE TO .pdf FORMAT
- 2. RECORD YOUR DISCUSSION VIDEO, UPLOAD IT TO YOUTUBE
- 3. SEND THE .pdf DOCUMENT (No 1) AND THE YOUTUBE LINK (No 2) TO THE KALAM

PROJECT TITLE:

ENTERPRISE RESOURCE PLANNING SYSTEM FOR CHOCO LAZAT ENTERPRISE

Your customer is a Malaysian small-to-medium-sized enterprise specializing in handcrafted chocolates and confectioneries. Choco Lazat Enterprise has been facing challenges in managing its operations efficiently due to its rapid growth and an increase in demand for its premium products. Its business processes, which were previously handled manually or with basic software, have become increasingly cumbersome and error prone. The company now seeks an integrated system to streamline its operations, improve inventory management, enhance customer service, and support its decision-making processes with accurate, real-time data.

The scope of the project includes the development and deployment of an Enterprise Resource Planning (ERP) system tailored specifically to Choco Lazat's needs. This system aims to unify and optimize various aspects of the business, from procurement and production to sales and customer relationship management.

The solution

The solution involves the creation of a fully integrated ERP system with the following components:

ERP System Features:

- Inventory Management
- Production Management
- Sales and Order Management
- Customer Relationship Management (CRM)
- Reporting and Analytics
- Multi-User Access

The web admin panel:

- System Configuration
- Business Reporting
- Multilingual Support

Specific features

To address the unique needs of Choco Lazat Enterprise, the ERP system incorporates several tailored features. One notable addition is the raw material expiry tracking mechanism, which helps ensure that ingredients are used efficiently before their expiration dates, significantly reducing wastage and maintaining product quality. Additionally, the system includes a custom recipe management module, enabling the business to document and standardize its unique chocolate recipes for consistent production, even during peak demand.

The ERP system also integrates seasonal demand forecasting, utilizing data from past sales trends to predict customer demand during festivals and holiday seasons. This ensures that inventory and production levels are optimized, preventing overstocking or stockouts. Moreover, the system offers offline functionality, allowing critical business operations to continue seamlessly even during internet disruptions, a common concern for businesses in semi-urban or remote areas.

Business benefits

The implementation of this ERP system provides substantial advantages to Choco Lazat Enterprise. Automation of manual processes not only saves time but also reduces human errors, leading to smoother day-to-day operations. The availability of real-time data ensures informed decision-making, allowing the business to react quickly to market demands and operational challenges. Customers benefit from faster order processing and personalized service, enhancing their overall experience and loyalty.

From a financial perspective, the system's ability to minimize wastage and optimize production schedules results in significant cost savings. Furthermore, its scalable architecture ensures that the ERP system will continue to support the business as it expands into new markets or introduces new product lines. Overall, the ERP system positions Choco Lazat Enterprise for sustainable growth and operational excellence.

INFORMATION ABOUT YOUR COMPANY

Name: 1A7 Sdn. Bhd.

Background:

The ERP system is developed by 1A7 Sdn. Bhd., a Malaysia-based software development firm specializing in creating tailored enterprise solutions for small-to-medium-sized businesses. With over a decade of experience, the company has a strong track record in delivering scalable and secure systems that address complex operational challenges. 1A7 Sdn. Bhd. prides itself on its customercentric approach, leveraging cutting-edge technology to provide intuitive, user-friendly systems that help businesses optimize their processes and achieve sustainable growth.

Region: Worldwide

Industry: Software Development

Type: Sdn Bhd

Engagement model: fixed cost/time and material

Staff: 69 persons **Platforms:** Web

The total cost allocation for the project is RM1.2 million. The project must be completed within 12 months.

PROJECT TASK 1 [10 MARKS]

a) Create the project charter for this project

[5 Marks]

Project Charter				
1.1 Project Name	CHOCO LAZAT ENTERPRISE RESOURCE MANAGEMENT SYSTEM			
1.2 Description	This project focuses on building a resource management system for Choco Lazat to streamline operations, including inventory, invoices, and order management. It aims to reduce the company's reliance on paper, making business processes more efficient and manageable.			
1.3 Objectives	 Develop a system that streamlines Choco Lazat's inventory, invoice, and order management processes. Implement a paperless solution to increase efficiency and reduce manual work. Provide tools for owners and auditors to easily monitor business performance and financials. 			
1.4 Date / Time	27th of October 2024 until 27th of October 2025 (12 months)			
1.5 Project Manager	Mohamad Nazameerul bin Mohamad Napi			
1.6 Deliverables	 A fully functional enterprise resource management system tailored for Choco Lazat. Documentation including user manuals, technical guidelines, and system design records. Training sessions and workshops for staff and owners. 			

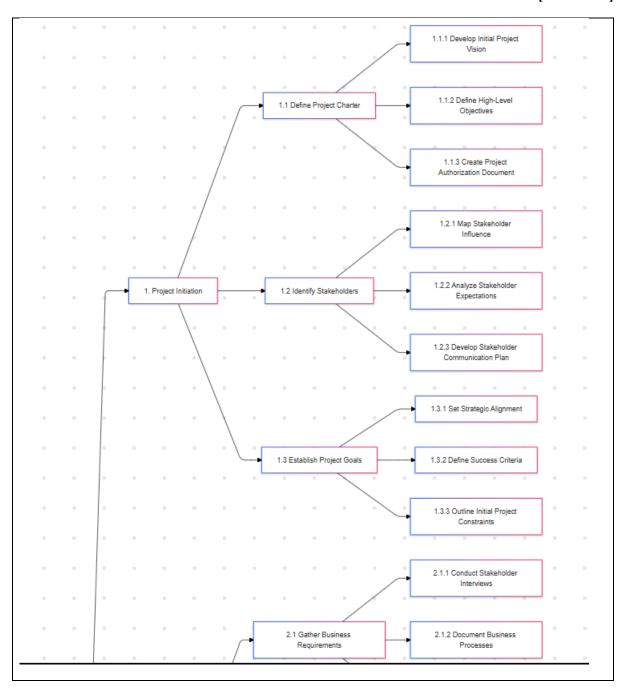
	 Approved reports from system testing and User Acceptance Testing (UAT). A post-implementation review report summarizing outcomes and future recommendations.
1.7 Organization Structure	 Project Manager: Oversees and coordinates project activities. Development Team: Reports to the project manager, focusing on coding, system design, and testing. Auditors: Monitor financial processes. Staff and Owners: Engage with the system postdevelopment, providing feedback during testing
1.8 Risk / Limitation	
1.9 Cost	
Stakeholder	Involved in Developing the System
	 Development Team: Builds the system according to requirements. Project Manager: Ensures resource efficiency and keeps the project on track.
	Direct Stakeholders (Primary Users)
	 Choco Lazat Owners: Use the system to monitor company performance through reports and dashboards. Choco Lazat Staff: Input, track, and manage daily tasks like inventory and order processing.

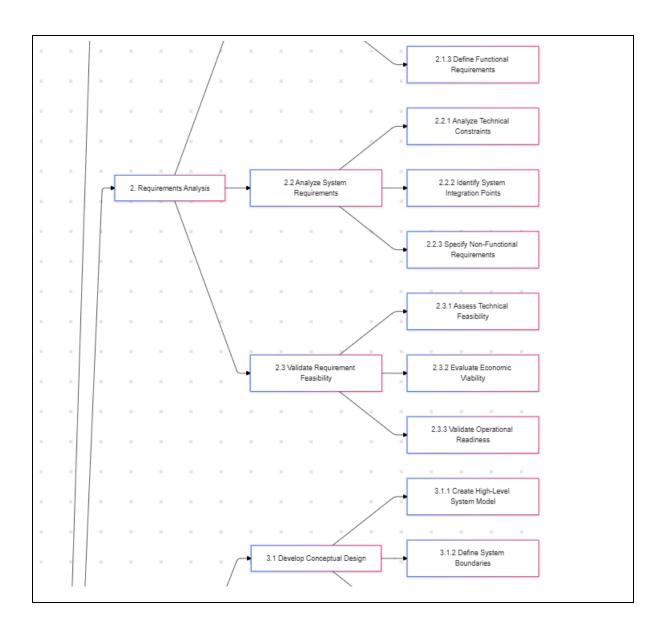
Indirect Stakeholders (Benefit from the System's Existence)

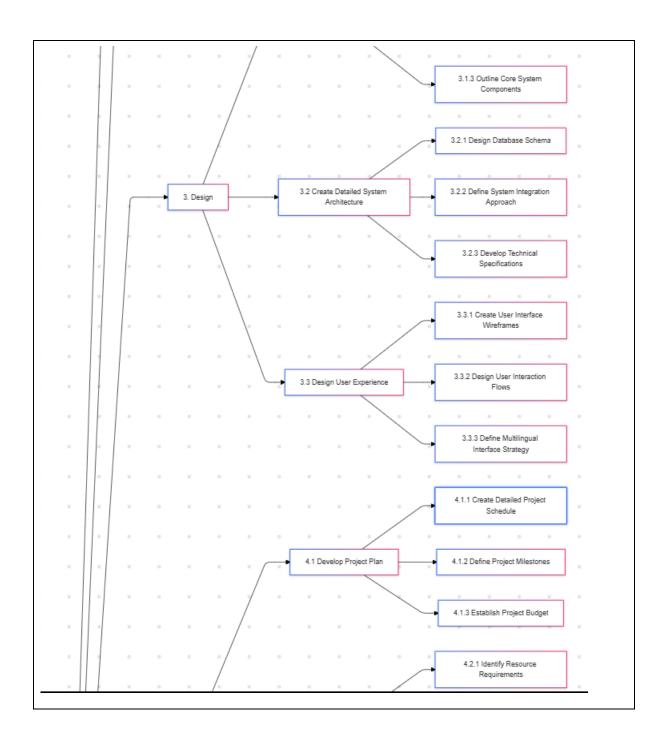
- Auditors: Use the system for financial monitoring and reconciliation.
- Suppliers: Benefit from efficient order processing and inventory management.
- Customers: Receive better service and faster order fulfillment due to improved processes

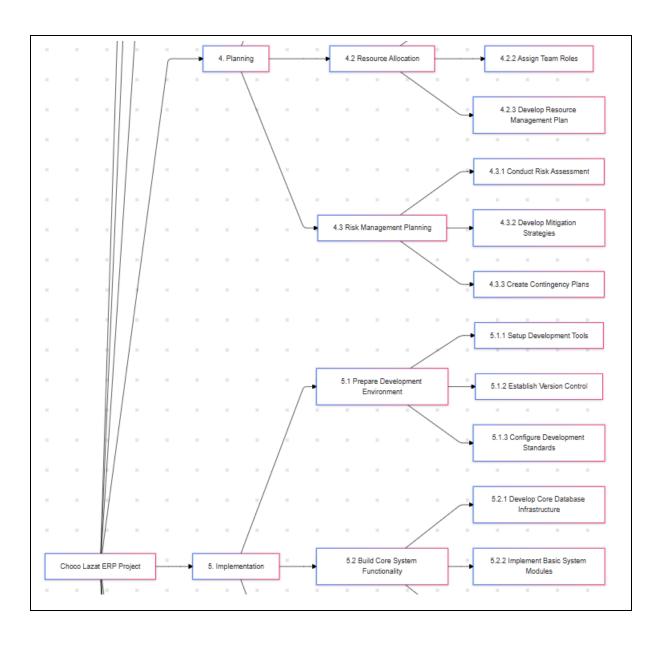
b) Develop WBS until level 4 for this project.

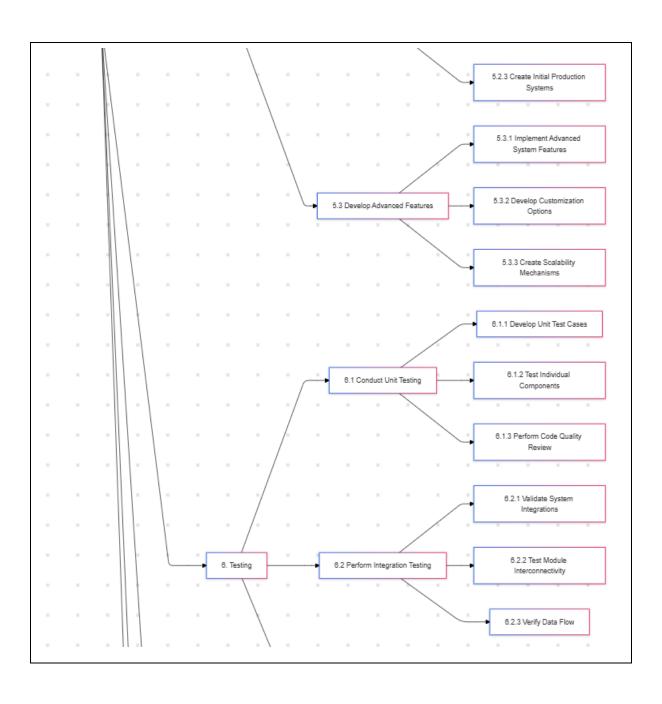
[10 Marks]

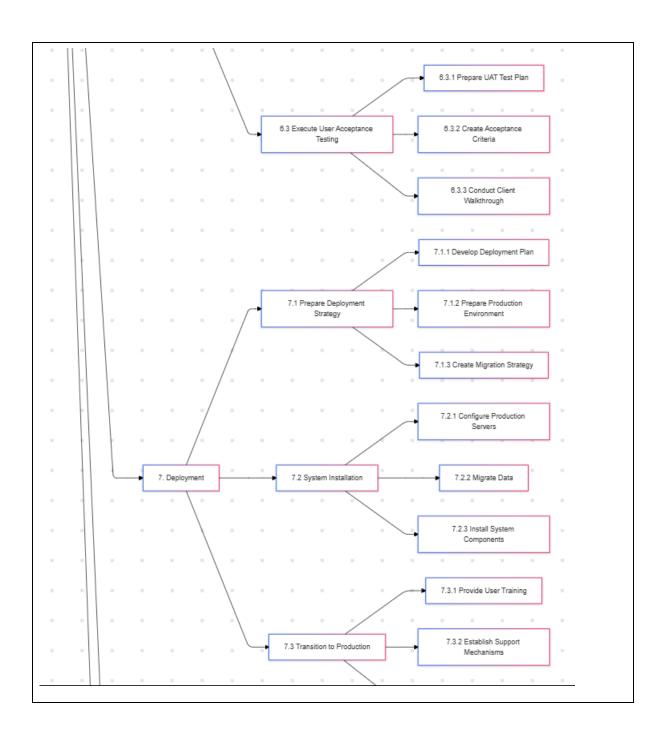


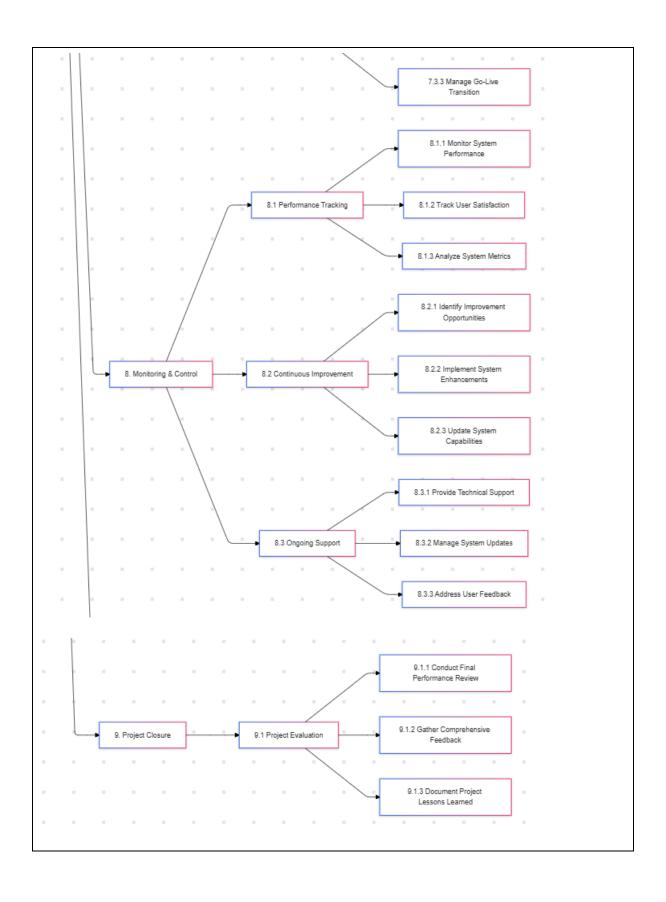












c) Using smartsheet.com, provide the project schedule in details of the twelve (12) months using the following format:

Activity Code	Activity Name	Predecessors	Duration (Day)
A	Collect requirements	-	2
В			

[10 Marks]

Smartsheet.com

 $\frac{https://app.smartsheet.com/workspaces/mH4J8WXMVq57cFphFCjJM4QmHQhMcq3}{MhFjWmq91}$

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Based on your answer in (c) plan a complete Gan	tt chart for this project.	
			[15 Mar]
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ENTERPRISE RESOURCE PLANNING SYSTEM FOR CHOCO LAZA

Primary Column	Activity Name	Predecessors	Duration	StartDate	EndDate
1 A	Project Initiation	-		01/11/24	01/12/24
2 A1	Define Project Charter	A		01/11/24	11/11/24
3 A1.1 4 A1.2	Develop Initial Project Vision Define High-Level Objectives	A1.1		01/11/24 06/11/24	05/11/24 09/11/24
5 A1.3	Create Project Authorization	A1.2		10/11/24	11/11/24
6 A2	Identify Stakeholders	A		12/11/24	11/22/24
7 A2.1 8 A2.2	Map Stakeholder Influence Analyze Stakeholder	A2 A2.1		12/11/24 11/17/24	11/16/24 11/20/24
9 A2.3	Develop Stakeholder	A2.2		11/21/24	11/22/24
0 A3	Establish Project Goals	A	10	11/23/24	01/12/24
1 A3.1	Set Strategic Alignment	A3		11/23/24	11/27/24
2 A3.2 3 A3.3	Define Success Criteria Outline Initial Project	A3.1 A3.2		11/28/24 01/12/24	11/30/24 01/12/24
4 B	Requirements Analysis	A		02/12/24	01/15/25
5 B1	Gather Business Requirements	В	15	02/12/24	12/16/24
6 B1.1	Conduct Stakeholder Interviews			02/12/24	07/12/24
7 B1.2 8 B1.3	Document Business Processes Define Functional Requirements	B1.1	5	08/12/24 12/13/24	12/12/24 12/16/24
9 B2	Analyze System Requirements	B1.3		12/17/24	12/31/24
0 B2.1	Analyze Technical Constraints	B2	5	12/17/24	12/22/24
1 B2.2	Identify System Integration	B2.1		12/23/24	12/27/24
B2.3 B3	Specify Non-Functional Validate Requirement	B2.2 B2.3	5	12/28/24 01/01/25	12/31/24 01/15/25
4 B3.1	Assess Technical Feasibility	B3		01/01/25	05/01/25
5 B3.2	Evaluate Economic Viability	B3.1	5	06/01/25	10/01/25
6 B3.3	Validate Operational Readiness	B3.2		11/01/25	01/15/25
7 C 8 C1	Design Develop Conceptual Design	B C		01/16/25 01/16/25	03/16/25 04/02/25
9 C1.1	Create High-Level System	C1		01/16/25	01/22/25
0 C1.2	Define System Boundaries	C1.1	_	01/23/25	01/30/25
1 C1.3	Outline Core System	C1.2		01/31/25	04/02/25
2 C2 3 C2.1	Create Detailed System Design Database Schema	C1.3 C2		05/02/25 05/02/25	02/25/25 11/01/25
4 C2.2	Design Database Schema Define System Integration	C2.1		02/18/25	11/01/25
5 C2.3	Develop Technical	C2.2		02/19/25	02/25/25
6 C3	Design User Experience	C2.3		02/26/25	03/16/25
7 C3.1 8 C3.2	Create User Interface	C3.1		02/26/25 05/03/25	04/03/25 11/01/25
9 C3.3	Design User Interaction Flows Define Multilingual Interface	C3.1		03/16/25	11/01/25
0 D	Planning	C		03/17/25	04/30/25
.1 D1	Develop Project Plan	D		03/17/25	03/31/25
2 D1.1 3 D1.2	Create Detailed Project Define Project Milestones	D1.1		03/17/25 03/22/25	03/21/25 03/26/25
3 D1.2 4 D1.3	Establish Project Budget	D1.2		03/27/25	03/26/25
5 D2	Resource Allocation	D1.3		01/04/25	04/15/25
6 D2.1	Identify Resource Requirements			01/04/25	05/04/25
7 D2.2	Assign Team Roles	D2.1 D2.2		06/04/25	10/04/25
8 D2.3 9 D3	Develop Resource Risk Management Planning	D2.3		04/15/25 04/16/25	11/01/25 04/30/25
0 D3.1	Conduct Risk Assessment	D3		04/16/25	04/20/25
1 D3.2	Develop Mitigation Strategies	D3.1	5	04/21/25	04/25/25
D3.3	Create Contingency Plans	D3.2		04/26/25	04/30/25
3 E 4 E1	Implementation Prepare Development	D E		01/05/25 01/05/25	07/29/25 05/30/25
5 E1.1	Setup Development Tools	E1		01/05/25	10/05/25
6 E1.2	Establish Version Control	E1.1	10	05/20/25	11/01/25
7 E1.3	Configure Development	E1.2		05/21/25	05/30/25
8 E2 9 E2.1	Build Core System Functionality Develop Core Database	E1.3		05/31/25 05/31/25	06/29/25 09/06/25
0 E2.2	Implement Basic System	E2.1	10		06/19/25
1 E2.3	Create Initial Production	E2.2		06/20/25	06/29/25
2 E3	Develop Advanced Features	E2.3		06/30/25	07/29/25
E3.1 E3.2	Implement Advanced System Develop Customization Options	E3 E3.1		06/30/25 10/07/25	09/07/25 07/19/25
5 E3.3	Create Scalability Mechanisms	E3.2		07/20/25	07/29/25
6 F	Testing	E	60	07/30/25	09/28/25
7 F1	Conduct Unit Testing	F		07/30/25	08/18/25
8 F1.1 9 F1.2	Develop Unit Test Cases Test Individual Components	F1.1		07/30/25 06/08/25	05/08/25 11/01/25
0 F1.3	Perform Code Quality Review	F1.2		08/13/25	08/18/25
1 F2	Perform Integration Testing	F1.3		08/19/25	07/09/25
2 F2.1	Validate System Integrations	F2 1		08/19/25	08/25/25
F2.2 F2.3	Test Module Interconnectivity Verify Data Flow	F2.1 F2.2		08/26/25 02/09/25	01/09/25 07/09/25
5 F3	Execute User Acceptance	F2.3		08/09/25	09/28/25
6 F3.1	Prepare UAT Test Plan	F3	7	08/09/25	09/14/25
7 F3.2	Create Acceptance Criteria	F3.1		09/15/25	09/21/25
9 G	Conduct Client Walkthrough Deployment	F3.2		09/22/25 09/17/25	09/28/25 10/31/25
0 G1	Prepare Deployment Strategy	G		09/29/25	10/13/25
G1.1	Develop Deployment Plan	G1		09/29/25	03/10/25
2 G1.2 3 G1.3	Prepare Production Create Migration Strategy	G1.1		04/10/25 09/10/25	08/10/25
3 G1.3 4 G2	Create Migration Strategy System Installation	G1.2 G1.3		09/10/25 10/14/25	10/13/25 10/28/25
5 G2.1	Configure Production Servers	G2	5		10/18/25
6 G2.2	Migrate Data	G2.1	5		10/23/25
7 G2.3	Install System Components Transition to Production	G2.2	5		10/28/25
8 G3 9 G3.1	Transition to Production Provide User Training	G2.3 G3	15		10/31/25 02/11/25
0 G3.2	Establish Support Mechanisms	G3.1		03/11/25	07/11/25
1 G3.3	Manage Go-Live Transition	G3.2		08/11/25	10/31/25
2 H 3 H1	Monitoring & Control	G H		08/31/25	10/31/25 10/31/25
3 H1 4 H1.1	Performance Tracking Monitor System Performance	H1		10/12/25 10/31/25	10/31/25
5 H1.2	Track User Satisfaction	H1.1		10/31/25	10/31/25
6 H1.3	Analyze System Metrics	H1.2		10/31/25	10/31/25
7 H2	Continuous Improvement	H1.3		10/12/25	10/31/25
8 H2.1 9 H2.2	Identify Improvement Implement System	H2.1		10/31/25 10/31/25	10/31/25 10/31/25
0 H2.3	Update System Capabilities	H2.2		10/31/25	10/31/25
1 H3	Ongoing Support	H2.3	20	10/12/25	10/31/25
2 H3.1	Provide Technical Support	H3		10/26/25	10/31/25
H3.2 H3.3	Manage System Updates Address User Feedback	H3.1 H3.2		10/24/25 10/26/25	10/31/25 10/31/25
5 I	Project Closure	H3.2		10/17/25	10/31/25
6 I1	Project Evaluation	I		10/17/25	10/31/25
7 I1.1	Conduct Final Performance	I1	5	10/27/25	10/31/25
8 I1.2	Gather Comprehensive	I1.1		10/27/25	10/31/25

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ENTERPRISE RESOURCE PLANNING SYSTEM FOR CHOCO LAZA

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