COST MANAGEMENT PLAN CHUBBY GOURMET'S E-COMMERCE WEB APPLICATION

HIGHTABLE

PROJECT DOCUMENTATION SUBMITTED TO THE FACULTY OF THE SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGIES

ASIA PACIFIC COLLEGE

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
PROJECT MANAGEMENT
PROJMAN

BY
GIANNA BERNICE R. ARTAJOS
MARCUS PHILIP L. FLORES
JOHN RYSAL C. ROSEL
LESTER DAVE M. SALAZAR

http://www.120society.com/

TABLE OF CONTENTS

Introduction	. 2
COST MANAGEMENT APPROACH	. 2
MEASURING PROJECT COSTS	
REPORTING FORMAT	. 3
Cost Variance Response Process	
COST CHANGE CONTROL PROCESS	
Project Budget	

Introduction

Effective cost management is crucial for the success of any project, and the Chubby Gourmet ecommerce web application project is no exception. This Cost Management Plan document outlines the strategies and procedures that will be employed to ensure that project costs are managed efficiently and effectively throughout its lifecycle.

The purpose of this plan is to establish the guidelines and standards for measuring, controlling, and reporting project costs. The plan identifies the individuals responsible for cost management, defines the authority levels for approving changes to the project budget, and outlines the mechanisms for measuring and reporting cost performance.

By adhering to the standards set out in this plan, we can ensure that the Chubby Gourmet e-commerce web application project is completed within budget, on time, and to the satisfaction of all stakeholders.

COST MANAGEMENT APPROACH

The Chubby Gourmet e-commerce web application project will utilize the Work Breakdown Structure (WBS) to effectively manage costs.

At the last level of the WBS, Cost Accounts will be established for each major deliverable. Cost performance will be monitored by regularly reviewing actual costs against the budgeted costs for each Cost Account. Any variances will be thoroughly investigated, and corrective actions will be taken as necessary. Additionally, a cost performance index (CPI) and a schedule performance index (SPI) will be utilized to track cost and schedule performance. Monthly reports will be generated and presented to the Project Sponsor and other key stakeholders.

All changes to the project scope or budget will require review and approval by the Project Manager and the Project Sponsor. If a cost change exceeds 10% of the total project budget, approval from the Project Sponsor will be necessary before implementation.

By managing costs at the last level of the WBS and regularly reviewing cost performance, the Chubby Gourmet e-commerce web application project will be completed within the approved budget and to the satisfaction of all stakeholders.

MEASURING PROJECT COSTS

This section will detail the Earned Value measurements that will be captured and reported upon, and whether any tools, such as project management software, will be used to assist in capturing Earned Value metrics. The section will also outline how future project costs will be forecasted

and how cost performance will be reviewed over time, across work packages or schedule activities.

Forecasting future project costs is an important aspect of cost management in any project. In the cost management plan for Chubby Gourmet e-commerce web application, the project team will use a combination of historical data and expert judgment to forecast future project costs. The team will also consider any changes in project scope, schedule, or resource requirements that may affect the project budget.

To review cost performance across work packages or schedule activities, the team will analyze the data collected through the EVM measurements and identify the areas where the project is over or under budget. The team will then drill down to the specific work packages or activities that are causing the deviations and take corrective actions accordingly. This will help the team keep the project on track and prevent any cost overruns or schedule delays.

To review cost performance over time, the team will use the earned value management (EVM) approach and measure Schedule Variance (SV), Cost Variance (CV), Schedule Performance Index (SPI), and Cost Performance Index (CPI) regularly. These measurements will help the team identify any deviations from the budget and schedule and take corrective actions to keep the project on track.

SV will be used to measure the schedule performance of the project. It will be calculated by taking the Earned Value (EV) and subtracting the Planned Value (PV), SV = EV - PV. If SV is zero, the project is perfectly on schedule. If SV is greater than zero, the project is ahead of schedule. If SV is less than zero, the project is behind schedule.

CV will be used to measure the budget performance of the project. It will be calculated by subtracting Actual Costs (AC) from Earned Value (EV), CV = EV - AC. If the CV is zero, the project is perfectly on budget. If the CV is greater than zero, the project is under budget. If the CV is less than zero, the project is over budget.

SPI will measure the progress achieved against what was planned. SPI will be calculated as EV/PV. A well-performing project should have its SPI as close to 1 as possible, or maybe even a little under 1.

CPI will measure the value of the work completed compared to the actual cost of the work completed. CPI will be calculated as EV/AC. If the CPI is greater than 1, the project is under budget. If it's less than 1, the project is over budget. If CPI is equal to 1, the project is perfectly on budget.

REPORTING FORMAT

The reporting format for the cost management plan of the Chubby Gourmet e-commerce web application will be a monthly report presented by the Project Manager to the stakeholders. The

report should be easily understandable and accessible to all stakeholders, including the project team, stakeholders, and management.

The report will include the following elements:

• Summary

The summary provides an overview of the project's cost performance, highlights any significant budget changes, and compares actual costs to the budgeted amounts.

• Cost Elements

This section breaks down project costs into major categories such as manpower, hardware, software, and other expenses.

• Cost Baseline

The cost baseline includes the original approved project budget, cost estimates for each element, and any approved revisions to the baseline budget.

• Cost Variance

The cost variance analysis examines the differences between actual costs and the baseline budget, identifies positive or negative variances, and explains the factors contributing to these variances.

• Cost Forecast

This section provides a projected cost estimate for the remaining work based on current performance, taking into account anticipated changes in project scope, schedule, and resources, and identifying potential risks impacting future costs.

• Analysis

The analysis section conducts a detailed examination of cost trends, patterns, and deviations, evaluates cost-saving measures or overruns, and presents recommendations for corrective actions or adjustments to the cost management approach.

• Visual Aids

Visual aids, such as tables, charts, graphs, and diagrams, are utilized to present cost data in a clear and concise manner, facilitating the visualization of cost variances, trends, and forecasts, including cost performance metrics like CPI.

• Risks and Opportunities

A summary of the identified risks and opportunities related to the cost of the project, including any updates to the risk and opportunity register.

Approval and Sign-off

A section for the project manager and other key stakeholders to review, approve, and sign off on the cost management report.

COST VARIANCE RESPONSE PROCESS

The Cost Variance Response Process for the Chubby Gourmet E-commerce Web Application project is outlined below:

• Identify the Cost Variance

The project team will monitor and track all costs incurred and compare them to the budgeted costs. If the actual costs exceed the budgeted costs by a predetermined threshold, a cost variance will be identified.

• Analyze the Cost Variance

The project team will analyze the cost variance to determine the root cause(s) of the deviation. This may involve a review of the project plan, a breakdown of cost components, and consultations with stakeholders.

• Develop Options

Based on the analysis, the project team will develop a range of options to address the cost variance. These may include reducing scope, changing resource allocations, renegotiating contracts, or seeking additional funding.

• Evaluate Options

The project team will evaluate the options in terms of feasibility, effectiveness, and impact on the project objectives. The options will be presented to the project sponsor for approval.

• Implement Chosen Option

Once the chosen option is approved, the project team will implement the corrective action. This may involve revising the project plan, and reallocating resources.

• Monitor Progress

The project team will continue to monitor and track costs to ensure that the corrective action is effective in addressing the cost variance. If necessary, additional corrective actions may be taken to further mitigate the cost variance.

• Communicate Status

The project team will provide regular updates on the status of the cost variance and any corrective actions taken to stakeholders, including the project sponsor, and other relevant parties.

COST CHANGE CONTROL PROCESS

The Cost Change Control Process for the Chubby Gourmet e-commerce web application will be as follows:

• Request for Cost Change

Any proposed changes to the project budget or costs must be submitted to the project manager in writing using the Cost Change Request Form.

• Initial Assessment

The project manager will review the Cost Change Request Form and perform an initial assessment to determine the potential impact on the project budget, schedule, scope, and quality.

Analysis of the Cost Change

The project manager will analyze the Cost Change Request in consultation with the project team to determine the feasibility, risks, and benefits of the proposed change.

• Cost Change Approval

The project manager will submit the Cost Change Request along with the analysis and recommendations to the project sponsor for approval. The project sponsor will review the request and either approve or reject it based on the impact analysis and the project's objectives and constraints.

• Implementation of the Cost Change

Once approved, the project manager will implement the Cost Change in accordance with the approved plan and schedule. This may involve updating the project management plan, revising the budget, reallocating resources, changing the project scope or quality, or updating the risk management plan.

• Cost Change Monitoring

The project manager will monitor the Cost Change to ensure that it is implemented as per the approved plan and schedule. The project team will track the cost performance and schedule performance to identify any variances or deviations from the plan and take corrective actions as necessary.

• Reporting on the Cost Change

The project manager will report the Cost Change in the regular project status reports to the project sponsor, and other stakeholders as appropriate. The report will include the approved Cost Change Request, the analysis and recommendations, the implementation plan and schedule, the monitoring and control plan, and any other relevant financial data.

PROJECT BUDGET

The budget for this project is detailed below. Costs for this project are presented in various categories.

Approved Budget: ₱ 1,500,000.00

 Manpower Cost:
 ₱ 502,106.00

 Hardware Cost:
 ₱ 206,656.00

 Software Cost:
 ₱ 18,400.00

 Miscellaneous Cost:
 ₱ 112,000.00

 Contingency Cost:
 ₱ 83,916.00

Total Project Cost: ₱ 923,078.00

	Chubby Gourmet	E-Commer	ce Web Application		
Budget	PHP 1,500,000	0.00	Project Duration	10 months	
Project Cost Estimate (in PHP)					
Manpower Cost Es	timate *based on Inde	eed			
Role	Hourly Rate	Number of Persons	Number of Hours	Total Cost	
Scrum Master	343.75	1	462	158,812.00	
Project Manager	231.25	1	558	129,037.00	
Back-end Developer	281.25	1	434	122,062.00	
Front-end Developer	206.25	1	447	92,193.00	
		Tot	al Manpower Cost	502,106.00	
Hardware Cost Est	imate		<u> </u>		
Name	Price	Nu	mber of units	Total Cost	
Laptop (HP Pavillion 14)	49,990.00		4	199,960.00	
Mouse (HP S4000 Wireless Mouse)	234.00	4		936.00	
Headset (HP Stereo USB Headset G2)	1,290.00	4		5,160.00	
Omni Extension Cord	300.00	2		600.00	
		Total Hardware Cost 206,656.00			
Software Cost Esti	mate				
Name	Price (monthly)	Number of licenses	Number of months	Total Cost	
OpenProject	free	4	10	-	
Visual Studio Code	free	2	6	-	
GitHub	free	2	6	-	
Figma	free	1	6	-	
Microsoft 365 Apps for business	460.00	4	10	18,400.00	
		T	otal Software Cost	18,400.00	

Miscellaneous Cost Estimate				
Name	Price	Count	Number of	Total Cost
	(monthly)		months	
Monthly Rent	6,500.00	1	10	65,000.00
(M. Dela Cruz,				
Pasay City)				
Electric Bill	2,000.00	1	10	20,000.00
Water Bill	1,000.00	1	10	10,000.00
Internet Bill	1,700.00	1	10	17,000.00
Total Miscellaneous Cost			112,000.00	
Total Cost Estimate 839,1			839,162.00	
Contingency Cost Estimate				
Contingency	172,505.00			83,916.00
Cost (10% of				
Total Cost				
Estimates)				
			Fotal Project Cost	923,078.00

Maintenance Cost Estimate

The Maintenance Cost Estimate is a crucial document that provides an annual projection of the expenses associated with maintaining a project after its implementation. This estimate serves as a valuable tool for organizations to effectively plan and budget for ongoing maintenance activities, ensuring the project's continued functionality and optimal performance. Below is the maintenance cost estimate for the Chubby Gourmet e-commerce web application.

Maintenance Cost Estimate (per year after project completion)				
Name	Price	Number of units	Total Cost	
	(annually)			
Hosting	2,500.00	1	2,500.00	
Domain Name	1,000.00	1	1,000.00	
Total Maintenance Cost			3,500.00	

If ever the project sponsor encounters an unforeseen problem that involves software issues, the allocated amount to be paid by the project sponsor is 281.25 pesos per hour (the hourly rate of the back-end developer). This maintenance service fee must be paid by the same developer who worked on the project and will be determined by them on how long until the issue can be resolved.

Cost Change Request Template

Change Number:	
Project Name:	
Prepared by:	
Date:	

Person(s) Requesting Change:		
Detailed Description of Cost C	hange Requested:	
Reason for Cost Change Reque	sted:	
Overall Effect on Project Cost		
 Projected Cost Overrun 	of approximately:	
Estimated Cost Reducti	on of approximately:	
Effect on Schedule:		
Planned Project Comple	etion Date:	
New Project Completio	n Date:	
Effect on Scope:		
Additional Remarks:		
Approval	Project Manager	Date
Approval	Project Sponsor	Date

SPONSOR ACCEPTANCE

Approved by the Project Sponsor:		
	Date:	
Ms. Priscilla Mariano		
Business Owner		