

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

HIGHTABLE

**PROJECT DOCUMENTATION SUBMITTED TO THE FACULTY OF THE
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ASIA PACIFIC COLLEGE

**IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
PROJECT MANAGEMENT
PROJMAN**

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INTRODUCTION

Effective cost management is crucial for the success of any project, and the Chubby Gourmet e-commerce 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: ₱ 2,000,000.00

Manpower Cost: ₱ 1,199,000.00

Hardware Cost: ₱ 206,656.00

Software Cost: ₱ 22,400.00

Miscellaneous Cost: ₱ 112,000.00

Contingency Cost: ₱ 154,006.00

Total Project Cost: ₱ 1,694,062.00

Chubby Gourmet E-Commerce Web Application				
Budget	PHP 2,000,000.00		Project Duration	10 months
Project Cost Estimate (in PHP)				
Manpower Cost Estimate <i>*based on Indeed</i>				
Role	Average Salary (monthly)	Number of persons	Number of months	Total Cost
Scrum Master	55,000.00	1	10	550,000.00
Project Manager	37,000.00	1	7	259,000.00
Back-end Developer	45,000.00	1	5	225,000.00
Front-end Developer	33,000.00	1	5	165,000.00
Total Manpower Cost				1,199,000.00
Hardware Cost Estimate				
Name	Price	Number 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 Estimate				

Name	Price (monthly)	Number of licenses	Number of months	Total Cost
OpenProject	free	4	-	-
Visual Studio Code	free	4	-	-
GitHub	free	4	-	-
Microsoft 365 Family placeholder	560.00	4	10	22,400.00
Total Software Cost				22,400.00
Miscellaneous Cost Estimate				
Name	Price (monthly)	Count	Number of months	Total Cost
Monthly Rent (M. Dela Cruz, Pasay City)	6,500.00	1	10	65,000.00
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				1,540,056.00
Contingency Cost Estimate				
Contingency Cost (10% of Total Cost Estimates)	154,006.00	154,006.00		
Total Project Cost				1,694,062.00

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 (annually)	Number of units	Total Cost
Hosting	2,500.00	1	2,500.00
Domain Name	1,000.00	1	1,000.00
Software Maintenance	12,000.00	1	12,000.00
Total Maintenance Cost			15,500.00

SPONSOR ACCEPTANCE

Approved by the Project Sponsor:

Ms. Priscilla Mariano
Business Owner

Date: _____

Cost Change Request Template

Project Name:		
Prepared by:		
Date:		
Person(s) Requesting Change:		
Change Number:		
Detailed Description of Cost Change Requested:		
Reason for Cost Change Requested:		
Overall Effect on Project Cost		
<ul style="list-style-type: none">• Projected Cost Overrun of approximately• Estimated Cost Reduction of approximately		
Effect on Schedule:		
<ul style="list-style-type: none">• Planned Project Completion Date:• New Project Completion Date:		
Effect on Scope:		
Additional Remarks:		
Approval	Project Manager	Date
Approval	Project Sponsor	Date