OpenProject Output for DOST-STII: CitiSense

Project Documentation Submitted to the Faculty of the School of Computing and Information Technologies

Asia Pacific College

In Partial Fulfillment of the Requirements for Systems Analysis and Detailed Design MSYADD1

Submitted by:

Marabi, Mark Lyster (Team Leader)

Bernal, Lorenzo Emil (Member)

Cabangcala, Gab (Member)

Lazaro, Luis Lorenzo (Member)

G07 QuadThink - SF 231

Submitted to:

Mr. Jose Eugenio L. Quesada

Course Instructor

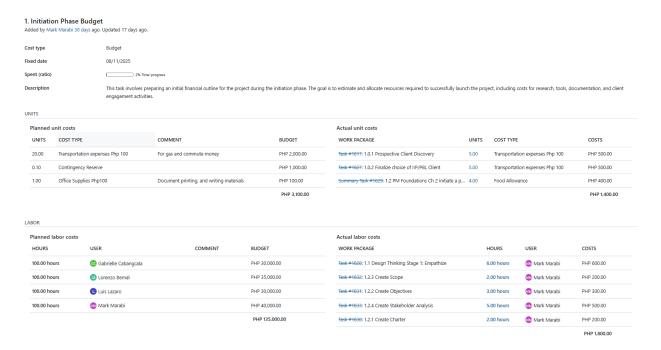
August 2025

1st Term

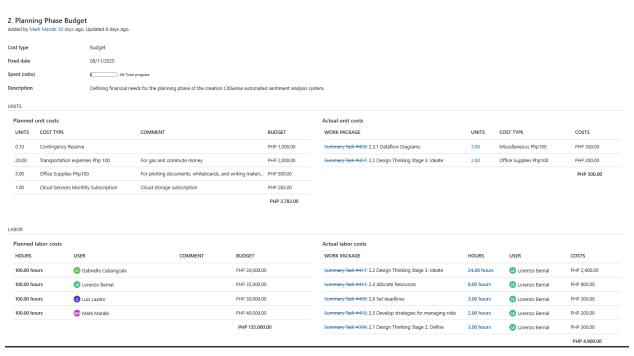
A.Y. 2025 - 2026

INITIAL BUDGETS

1 - Initiation Phase



2 - Planning Phase



ROADMAP

1 - Project Setup and Direction

Project Setup and Direction

Identifying stakeholders and their needs, defining project goals, and planning tasks and timelines.

97% Total progress 32 closed (97%) 1 open (3%)

^ RELATED WORK PACKAGES

- Phase #394: 1.0 Initiation Phase
- Phase #395: 2.0 Planning Phase
- Task #431: 2.3.3 Entity Relationship Diagrams
- Task #434: 2.3.1.1 Context Diagram
- Task #435: 2.3.1.2 Dataflow Diagram Level 1
- Task #436: 2.3.2.1 Use Case Diagram
- Task #438: 2.3.1.2.1 Dataflow Diagram Level 2.1
- Task #439: 2.3.1.2.2 Dataflow Diagram Level 2.2
- Task #441: 2.3.2.1.2 Use Case Fully Dressed 2.3.2.1.2
- Task #442: 2.3.2.1.1.1 Test Case for UCD 2.3.2.1.1
- . Task #1817: 1.0.1 Prospective Client Discovery
- Task #1827: 1.0.2 Finalize choice of IIP/PBL Client
- Task #1828: 1.1 Design Thinking Stage 1: Empathize
- Task #1830: 1.2.1 Create Charter
- Task #1831: 1.2.2 Create Objectives
- Task #1832: 1.2.3 Create Scope
- Task #1833: 1.2.4 Create Stakeholder Analysis
- . Task #1037: 1.0.3 Initial Client Interview
- Task #2085: 2.3.1.2.3 Dataflow Diagram Level 2.3
- Task #2086: 2.3.1.2.4 Dataflow Diagram Level 2.4

2 - Development and Delivery Phase

Development and Delivery Phase

Doing planned tasks, and delivering project outputs

50% Total progress

2 closed (20%) 8 open (80%)

∧ RELATED WORK PACKAGES

- Phase #396: 3.0 Executing Phase
- Phase #2214: 3.1.2 User Story 02
- Phase #2216: 3.1.2.1 Feature 01
- Phase #2217: 3.1.2.1 Task 01
- Task #418: 3.1 Design Thinking Stage 4: Prototype
- Task #419: 3.2 Design Thinking Stage 5: Test
- Task #437: 3.1.1.1.1 Task 01
- Epic #401: 3.3 Epic 01
- Feature #433: 3.1.1.1 Feature 01
- User story #423: 3.1.1 User Story 01

3 - Managing Progress

Managing Progress

Tracking progress, comparing it to the plan, and identifying any deviations or issues.

0% Total progress

0 closed (0%) 5 open (100%)

- · Phase #397: 4.0 Monitoring and Controlling
- Task #402: 4.1 Tracking progress
- Task #407: 4.2 Comparing it to the plan
- Task #408: 4.3 Identifying any deviations or issues
- · Task #409: 4.4 Measuring performance

4 - Finalization Phase

Finalization Phase

External testing phase, involving a wider audience to gather feedback on usability and performance.

0 closed (0%) 7 open (100%)

0% Total progress

^ RELATED WORK PACKAGES

- Phase #398: 5.0 Closing Phase
- Task #403: 5.1 Completing all tasks
- . Task #404: 5.2 Obtaining final approvals
- Task #405: 5.3 Archiving project documentation
- Task #406: 5.4 Conducting a final review
- Task #410: 5.5 Project Turnover
- Sub Task #432: 5.1.1 User Acceptance Test Completions

WBS:	2.1
Work Package:	2.1 Design Thinking Stage 2: Define
Package Owner:	QuadThink
Owner Organization:	DOST-STII IRAD
Participants:	Mark Lyster Marabi Lorenzo Emil Bernal Gab Cabangcala Luis Lorenzo Lazaro
Description:	Identify the problems and pain points of the client to better see the bigger picture of the overall problem.
Completion State:	Completed main problem statements and "How Might We" statements. This will guide us for the ideation process in Design Thinking Stage 3.
Assumptions:	 Stakeholders (IRAD – DOST-STII) can adopt a full working automated system in their current workflow. We believe the current manual sentiment analysis workflow of IRAD is very tedious and repetitive.
Risks:	 The Al model behind the automated sentiment analysis system might yield inaccurate results, as human language, primarily English and Tagalog, has semantic meaning and sarcasm that the model might not identify or generalize well to. There might be an issue regarding the integration of the system in the current sentiment analysis workflow.
Risk Mitigation:	 The AI model must be picked carefully and fine-tuned to handle both English and Tagalog. In the case of unavoidable circumstances, such as the model not generalizing well to Taglish, there might be a need for transparency, which might lead to inaccurate results The system must be simple enough for IRAD employees to adopt it seamlessly in their workflow.
Budget:	
Reference Docs:	QuadThink_Design Thinking Stages Final Documentation.pdf

PEOPLE							
Assignee	LB Lorenzo Bernal	Responsible*	LB Lorenzo Bernal				
Accountable	MM Mark Marabi						
ESTIMATES AND PROGRESS							
Work	1h	Remaining work	Oh				
% Complete	100%	Spent time	1h 🛇				
DETAILS							
Priority *	Normal	Date	no start date - no finish date				
Project phase	Planning	Category	-				
Version	Initiation and planning						
COSTS							
Spent units		Labor costs	PHP 100.00				
Unit costs	-	Overall costs	PHP 100.00				
Budget	2. Planning Phase Budget						

BOARDS

1 - Initiation Phase

2 - Planning Phase

02 Planning Phase

