INF6001 INFORMATION SYSTEMS PROJECT MANAGEMENT

Group Report

Group Number: 5

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Executive Summary

The current project has been planned for 18 months with the scope involving an IT system that includes a front-end web page enabling data entry, data retrieval, functionality to assign projects and email services, and a back-end database in the cloud. A total of 6 members will be involved from SoftEng led by Mr. Tony Stark, the Project Manager.

The project starts on 10th May 2023 and the project sign-off is scheduled on 6th Nov 2024, and the expected budget is 264,350 pounds. The project is to undertake a waterfall methodology of development and therefore changes in requirements might lead to cost and scope creep risks. Formal meetings are scheduled weekly between KnowHow and SoftEng to track progress. Key deliverables of the project are the Information system(The application), Project Charter document. PID, kickoff meeting, requirement document, blueprint document, system and technical design document, testing documents, training, manual user guide documents, handover documents and project closure documents.

Project Charter

KnowHow Enterprises is a company that specializes in customized intermediary services to research and innovation projects with respect to dissemination and communication activities. They are faced with the problem of a lack of information sharing and archiving resulting due to factors such as attrition of employees. They are looking to develop an IT system to tackle this project.

This report will have the Project Charter, Scope Management Plan, and Detailed Project Plan for undertaking the project by our firm, SoftEng. The project duration has been agreed upon for 18 months between the General Manager of KnowHow, Mrs. Anne Gerbot, and Mr. Nick Fury, the Head of Delivery of SoftEng.

The project will be led by the Project Manager, Mr. Tony Stark, and the Lead Technology System Architect, Mr. Steve Rogers. The IT system is expected to help KnowHow employees keep a record of each project, including contact details, drafts, and transcripts. The general manager should be able to assign work to the staff and input relevant details regarding future opportunities and an emailing system for the employees to connect with the clients. Hence the scope of the project would include the development of a front-end web page enabling data entry, data retrieval, functionality to assign projects and email services, and a back-end database.

Based on the requirements, considering the reduced budget and an opportunity to expand in the future, the database system will be hosted on the cloud. We suggest AWS cloud services to develop the system due to the following reasons (Laurent, 2023)

- 1. Low operating cost: fit for small and medium-scale businesses.
- 2. Scalability of services on demand
- 3. Pay-as-you-use model of billing.
- 4. Built safety and security.

5. AWS is the market leader in updating cloud technology with time, hence trust in the continuity of services in the future at the best prices possible and has a good support and maintenance service (Felix, 2023).

Software license, hardware acquisition, further addition of features, and maintenance or expansion of the IT system, including AWS cloud-related changes, will be out of scope.

Based on the requirements and the technology of choice, the team will consist of a front-end developer and a back-end developer who will be outsourced. We will have a Quality Assurance lead working independently to maintain the quality of the product. A business Analyst will be outsourced and will be working in the initial and final stages of the project to develop use cases (Glassdoor, 2023). The outsourced employees are billed 20 days a month daily, and full-time employees are billed 28 days a month.

General Project Information

Project Name	Project Manager	Project Sponsor	
KnowHow IS	Mr. Tony Stark	Mrs. Gerbot	
Contact email	Project Team Members (name and role)		
Tony.Stark@softeng.com	Project Manager - Mr. Tony Stark		
Gerbot@knowhow.com	Lead system architect - Mr. Steve Rogers		
	QA Lead Engineer - Mr. Peter Parker		
	Front End Developer - Mr. Clark Kent (Outsourced)		
	Back End Developer - Mr. Bruce Wayne (Outsourced)		
	Business Analyst - Mrs. Natasha Romanolf (Outsourced)		

Estimated Costs	Expected Start Date	Expected Completion Date
264,349.25 GBP	10th May 2023	6th November 2024

Project Overview

Problem	The high staff turnover over the last five years has led to the lack of a way to store information and knowledge, which has led to a lack of knowledge and business continuity in the company, which in turn has led to a loss of customer and project information.
Purpose	The objective of the information system is to make entry, storage, and retrieval of information and files regarding their clients and their project to improve information sharing. The system should also enable work allocation to employees and email services.
Key Milestones	Project Charter Signoff PID Document Signoff Requirement Signoff Functional Design Document Signoff Technical Design Document Signoff Testing Signoff Go Live System/System Switched Handover Signoff Project Closure Signoff

Project Scope

Within scope	Frontend web page: enabling data entry, data retrieval. Functionality to assigning projects and email services Backend: File storage in cloud, relational database in cloud and ETL pipelines in cloud. Documentation, Training, and handover.		
Ostrila			
Outside scope	Hardware procurement, software license, additional requirement & functionalities, future changes in AWS.		
Expected Deliverables	Project Charter Document.		
	Project Initiation Document.		
	Kickoff Meeting & Minutes of Meeting from Kickoff.		
	Requirement Document.		
	Blueprint Document.		
	Functional Design Document.		
	Technical Design Document.		
	QA Test Document.		
	Regression Test Document.		
	UAT Document.		
	UAT Regression Document.		
	Security Test Document.		
	Information System (The Application).		
	User Manual (Guideline).		
	Operational Document.		

Training.
Handover Document.
Project Closure Report.

Resources

Project Team	Mr. Tony Stark, Mr. Steve Rogers, Mr. Peter Parker, Mr.		
	Clark Kent, Mr. Bruce Wayne, Mrs. Romanolf		
Support Resources	SoftEng Admin, Client Point of Contact, AWS cloud		
	licensing, AWS support services, Microsoft Teams, Jira.		
Others			

Cost

Cost Type	Rate (monthly)	Quantity	Duration	Total amount (in
			(Working	GBP)
			Days)	
PM	4137	1	504	74466
System Architect	5402	1	504	97236
QA Engineer	2582	1	114	9811.6
frontend engineer	1647	1	284	23387.4
backend engineer	2917	1	243	35441.55
Business Analyst	2083	1	64	6665.6

	I	1	I	i i
Amazon S3	60.93	1	420	853.02
Amazon Redshift	523.49	1	420	7328.86
Amazon Athena	240.61	1	420	3368.54
Amazon Glue	0.11	1	420	1.54
Amazon Workflows for		1	420	5089.14
Apache Airflow	363.51			
Overhead Cost	700			700
Total costs			264349.25	

Risks and Constraints

Risks	Organisation:
	Upper management change in KnowHow.
	Team members of SoftEng resigned during the project development
	phase.
	Approvals:
	Failure to get Project plan, budget, Requirement document, System
	Design, Technical Design, Test results, and User Acceptance testing
	approved.
	Requirements:
	Unclear requirements by the client.
	Incorrectly defined requirement.
	Over expectations from the technology.
	Inefficient user cooperation.

	Creeps:
	Cost creep.
	Scope creep.
	Technology:
	Drastic updates and changes to technology which may lead to skill
	shortages and basic build changes (Shan et al., 2010).
Constraints	Budget constraints (client has limited budget)
	Relocating outsourced employees to the central office in Sheffield.
	There are further use cases for which an IT system can be deployed
	in KnowHow since the business involves outreach for researchers
	but the current scope is limited. (Mai, 2018).
Assumptions	There won't be changes to the agreed-upon requirements for the
	Information system to be developed.
	There won't be changes to the time available for completing the
	project of 18 months.
	Outsourced employees meet qualification standards set by the
	client.
	There won't be a drastic update to the technology used for the
	development of the Information System during the project.

Prepared by:

Prepared by [Tony Stark/Project Manager]	Date 1st May 2023
Approved by [General Manager /Anne Gerbot]	Date 2nd May 2023

Scope Management Plan

We propose to adopt a waterfall approach for the project because:

- The Requirements are clearly defined, and the client is less prone to change to the requirements.
- The timeline is fixed.
- The project is relatively small.
- The customers don't seem to have enough IT knowledge and hence have less involvement in the technical area. Because of the high attrition rate in knowHow, the unavailability of a constant point of contact from the client side will be an issue. This also calls for proper documentation.
- The Project Plan can be reused for further expansion (Kate, 2016).

Work Breakdown Structure

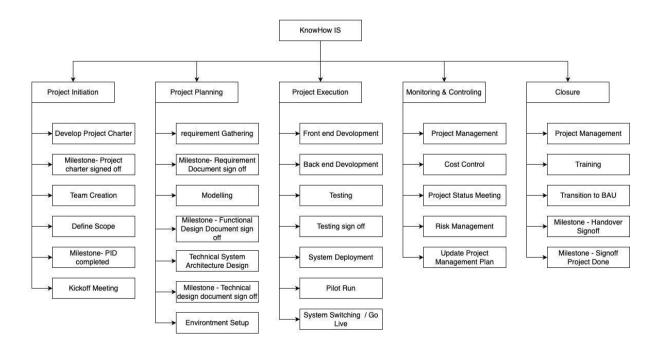


Fig1: Work Breakdown Structure.

The three-level hierarchy starts with the element of Knowhow IS, essentially the project, which is then split into Initiation, Planning, Execution, Monitoring & Controlling, and Closure.

The key elements in Project initiation are the creation, review and signing off of the project charter, followed by creating a scope document and Project Initiation Document (PID), after which team members are boarded into the project and given initial KT. Security clearance and accounts are created in AWS, Microsoft Teams, and Jira. The phase ends with the project manager conducting a kick-off meeting with all stakeholders.

The planning involves gathering use cases and, creating user requirement documents and generating test cases, the requirements are signed off to avoid misinterpretations, based on requirements, the system modeling and technical design are created and signed off post which the Development, Test & UAT, and Production environment are set up to start development.

The execution starts with system development which includes a front-end web page that enables inputting information and storing files, assigning jobs, and creating an email system. A back-end data storage in AWS containing S3 file storage and a redshift database with automated ETL jobs using glue and airflow. Unit Testing is also completed in this element, and the system is handed over to testing. The QA team tests and signs off after all bug fixes, followed by User Acceptance Testing. The system is then deployed in a production environment and a pilot run is done, post which the old system is decommissioned, and the new system goes live for all users.

Control over the project runs parallel to other phases, including cost control checks and meetings to ensure cost is still under control. Periodic project update meetings which include daily internal meetings and weekly client meetings and risk management efforts as defined in the risk management plan. The final phase includes user training, switching to BAU and project sign-off.

Detail Task List

ID	Task	No of Days	Start Date	End Date	Predec essor	Assigned to
1	Project Initiation	21 days	10-May- 23	07-Jun-23		
2	Develop Project Charter	13 days	10-May- 23	26-May-23		
3	Collect relevant information	3 days	10-May- 23	12-May-23		Mr. Tony Stark
4	Develop project Charter document	5 days	15-May- 23	19-May-23	3	Mr. Tony Stark
5	Project Sponsor Review	2 days	22-May- 23	23-May-23	4	USER - Anne Gerbot
6	Revise the project charter	2 days	24-May- 23	25-May-23	5	Mr. Tony Stark
7	Project Charter Signoff	1 day	26-May- 23	26-May-23	6	USER - Anne Gerbot
8	Milestone- Project charter signed off	0 days	26-May- 23	26-May-23	7	Mr. Tony Stark
9	Team Creation	20 days	10-May- 23	06-Jun-23		

10	Selecting internal team members	2 days	10-May- 23	11-May-23		Mr. Tony Stark
11	Selecting outsourced team members	10 days	15-May- 23	26-May-23	3	Mr. Tony Stark
12	Team eyes breaking event	1 day	29-May- 23	29-May-23	11	Mr. Tony Stark
13	Account set up for team members	7 days	29-May- 23	06-Jun-23	11	Mr. Steve Rogers
14	Define Scope	18 days	15-May- 23	07-Jun-23		
15	Analysis the user requirements document	1 day	07-Jun-23	07-Jun-23	13	Mrs. Natasha Romanolf
16	Define in-scope and out of scope	3 days	15-May- 23	17-May-23	3	Mrs. Natasha Romanolf
17	Develop Scope document	3 days	18-May- 23	22-May-23	16	Mrs. Natasha Romanolf
18	Scope Signoff	1 day	23-May- 23	23-May-23	17	Mr. Tony Stark
19	Develop PID	7 days	24-May- 23	01-Jun-23	18	Mr. Tony Stark
20	Kickoff Meeting	1 day	02-Jun-23	02-Jun-23	19	Mr. Tony Stark
21	Milestone- PID completed	0 days	02-Jun-23	02-Jun-23	20	Mr. Tony Stark
22	Project Planning	71 days	05-Jun-23	11-Sep-23		

23	Requirement Gathering	37 days	05-Jun-23	25-Jul-23		
24	Prepare for the Interview	2 days	05-Jun-23	06-Jun-23	20	Mrs. Natasha Romanolf
25	Interview with Anne Gerbot	1 day	07-Jun-23	07-Jun-23	24	Mrs. Natasha Romanolf
26	Interview with staffs	10 days	07-Jun-23	20-Jun-23	24	Mrs. Natasha Romanolf
27	Analysis interview transcript	5 days	21-Jun-23	27-Jun-23	26	Mrs. Natasha Romanolf
28	Design and review the use case	8 days	28-Jun-23	07-Jul-23	27	Mr. Tony Stark; Mrs. Natasha Romanolf
29	Develop User requirement document	5 days	10-Jul-23	14-Jul-23	28	Mrs. Natasha Romanolf
30	Negotiate requirements analysis with users	2 days	17-Jul-23	18-Jul-23	29	Mrs. Natasha Romanolf
31	Update the user requirements document	5 days	17-Jul-23	21-Jul-23	29	Mrs. Natasha Romanolf
32	Requirement Signoff	2 days	24-Jul-23	25-Jul-23	31	USER - Sree Patel; USER - Mo Jonas
33	Milestone- Requirement Document sign off	0 days	25-Jul-23	25-Jul-23	32	Mr. Tony Stark

34	Modelling	15 days	26-Jul-23	15-Aug-23	23	
35	Analysis with Interview document, User requirement document and Scope document	3 days	26-Jul-23	28-Jul-23		Mr. Steve Rogers
36	Draw the rich picture	4 days	31-Jul-23	03-Aug-23	35	Mrs. Natasha Romanolf; Mr. Steve Rogers
37	Develop System Modelling document	4 days	31-Jul-23	03-Aug-23	35	Mr. Steve Rogers; Mrs. Natasha Romanolf
38	Negotiate System Modelling document with users	2 days	04-Aug-23	07-Aug-23	37	Mrs. Natasha Romanolf; Mr. Steve Rogers
39	Update the System Modelling document	3 days	08-Aug-23	10-Aug-23	38	Mrs. Natasha Romanolf; Mr. Steve Rogers
40	Functional Design Review	2 days	11-Aug-23	14-Aug-23	39	Mr. Steve Rogers; Mr. Tony Stark; Mrs. Natasha Romanolf
41	Functional Design Sign off	1 day	15-Aug-23	15-Aug-23	40	USER - Mo Jonas; USER - Sree Patel

42	Milestone - Functional design document sign off	0 days	15-Aug-23	15-Aug-23	41	Mr. Tony Stark
43	Technical System Architecture Design	17 days	16-Aug-23	07-Sep-23	34	
44	Analysis of system models and design	2 days	16-Aug-23	17-Aug-23		Mr. Steve Rogers
45	Designing technical architecture	15 days	18-Aug-23	07-Sep-23	44	Mr. Steve Rogers
46	Develop technical architecture document	3 days	18-Aug-23	22-Aug-23	44	Mr. Steve Rogers
47	Technical design review	4 days	23-Aug-23	28-Aug-23	46	Mr. Steve Rogers; Mr. Tony Stark
48	Technical Design Signoff	1 day	16-Aug-23	16-Aug-23		USER - Mo Jonas; USER - Sree Patel
49	Milestone - Technical design document sign off	0 days	16-Aug-23	16-Aug-23	48	Mr. Tony Stark
50	Test case design	5 days	17-Aug-23	23-Aug-23	48	Mr. Peter Parker; Mrs. Natasha Romanolf

51	Test case sign off	1 day	24-Aug-23	24-Aug-23	50	USER - Mo Jonas; USER - Sree Patel
52	Environment Setup	18 days	17-Aug-23	11-Sep-23		
53	Setup Development Environment	8 days	17-Aug-23	28-Aug-23	48	Mr. Clark Kent; Mr. Bruce Wayne
54	Setup Testing environment	8 days	17-Aug-23	28-Aug-23	48	Mr. Bruce Wayne; Mr. Clark Kent
55	setup production environment	10 days	29-Aug-23	11-Sep-23	54	Mr. Bruce Wayne; Mr. Clark Kent
56	Project Execution	279 days	17-Aug-23	10-Sep-24		
57	Front end Development	125 days	29-Aug-23	19-Feb-24		
58	UI development	35 days	29-Aug-23	16-Oct-23	53	Mr. Clark Kent; Mr. Steve Rogers
59	UI functional unit testing	5 days	17-Oct-23	23-Oct-23	58	Mr. Clark Kent
60	Data entry and retrieval functionality development	30 days	24-Oct-23	04-Dec-23	59	Mr. Clark Kent; Mr. Steve Rogers

61	Data entry and retrieval functionality unit testing	5 days	05-Dec-23	11-Dec-23	60	Mr. Clark Kent
62	Emailing functionality development	20 days	12-Dec-23	08-Jan-24	61	Mr. Clark Kent; Mr. Steve Rogers
63	Emailing functionality unit testing	5 days	09-Jan-24	15-Jan-24	62	Mr. Clark Kent
64	Job assigning functionality development	20 days	16-Jan-24	12-Feb-24	63	Mr. Clark Kent; Mr. Steve Rogers
65	Job assigning functional unit testing	5 days	13-Feb-24	19-Feb-24	64	Mr. Clark Kent
66	Back end Development	145 days	17-Aug-23	06-Mar-24		
67	Cloud set up	10 days	17-Aug-23	30-Aug-23	48	Mr. Steve Rogers; Mr. Bruce Wayne
68	Creating file storage in S3	10 days	31-Aug-23	13-Sep-23	67	Mr. Bruce Wayne; Mr. Steve Rogers
69	Creating redshift databases	10 days	14-Sep-23	27-Sep-23	68	Mr. Bruce Wayne; Mr. Steve Rogers

70	Creating ETL jobs in glue	30 days	28-Sep-23	08-Nov-23	69	Mr. Bruce Wayne; Mr. Steve Rogers
71	ETL job unit testing	5 days	09-Nov-23	15-Nov-23	70	Mr. Bruce Wayne
72	Data Migration to cloud	60 days	16-Nov-23	07-Feb-24	71	Mr. Bruce Wayne; Mr. Steve Rogers
73	System Integration	10 days	08-Feb-24	21-Feb-24	72	Mr. Bruce Wayne; Mr. Steve Rogers
74	Integrated system pipeline unit testing	10 days	22-Feb-24	06-Mar-24	73	Mr. Bruce Wayne
75	Testing	117 days	24-Oct-23	03-Apr-24		
76	UI QA testing	8 days	24-Oct-23	02-Nov-23	59	Mr. Peter Parker
77	UI bug fixes	10 days	03-Nov-23	16-Nov-23	76	Mr. Clark Kent
78	UI QA retest	5 days	17-Nov-23	23-Nov-23	77	Mr. Peter Parker
79	Data entry and retrieval functionality QA testing	8 days	12-Dec-23	21-Dec-23	61	Mr. Peter Parker
80	Data entry and retrieval functionality bug fixes	10 days	22-Dec-23	04-Jan-24	79	Mr. Clark Kent
81	Data entry and retrieval functionality QA retesting	5 days	05-Jan-24	11-Jan-24	80	Mr. Peter Parker

82	Emailing functionality QA testing	8 days	16-Jan-24	25-Jan-24	63	Mr. Parker	Peter
83	Emailing functionality QA fixes	10 days	26-Jan-24	08-Feb-24	82	Mr. Kent	Clark
84	Emailing functionality QA retesting	5 days	09-Feb-24	15-Feb-24	83	Mr. Parker	Peter
85	Job assigning functionality QA testing	8 days	20-Feb-24	29-Feb-24	65	Mr. Parker	Peter
86	Job assigning functionality QA fixes	10 days	01-Mar-24	14-Mar-24	85	Mr. Kent	Clark
87	Job assigning functionality QA retesting	5 days	15-Mar-24	21-Mar-24	86	Mr. Parker	Peter
88	ETL job QA testing	8 days	16-Nov-23	27-Nov-23	71	Mr. Parker	Peter
89	ETL job QA fixes	10 days	28-Nov-23	11-Dec-23	88	Mr. Kent	Clark
90	ETL job QA retesting	5 days	12-Dec-23	18-Dec-23	89	Mr. Parker	Peter
91	Data Migration QA testing	23 days	08-Feb-24	11-Mar-24	72	Mr. Parker	Peter
92	Data Migration QA fixes	10 days	12-Mar-24	25-Mar-24	91	Mr. Kent	Clark

93	Data Migration QA retesting	5 days	26-Mar-24	01-Apr-24	92	Mr. Peter Parker
94	Integration QA Test	8 days	22-Feb-24	04-Mar-24	73	Mr. Peter Parker
95	Integration bug fixes	10 days	05-Mar-24	18-Mar-24	94	Mr. Clark Kent
96	Regression Testing	10 days	19-Mar-24	01-Apr-24	95	Mr. Peter Parker
97	Testing sign off	2 days	02-Apr-24	03-Apr-24	96	Mr. Peter Parker
98	Milestone- Test document	0 days	03-Apr-24	03-Apr-24	97	Mr. Tony Stark
99	User Acceptance Test	30 days	24-Nov-23	04-Jan-24	78	USER - John Louis
100	User Acceptance Fixes	15 days	05-Jan-24	25-Jan-24	99	Mr. Clark Kent; Mr. Bruce Wayne; Mr. Steve Rogers
101	User Acceptance Retesting	5 days	26-Jan-24	01-Feb-24	100	USER - John Louis
102	Bug fixes from UAT	15 days	02-Feb-24	22-Feb-24	101	Mr. Bruce Wayne; Mr. Clark Kent
103	UAT regression testing	4 days	19-Dec-23	22-Dec-23	90	Mr. Peter Parker; USER - John Louis
104	Security Test (Inc: Bugs Fixing)	15 days	25-Dec-23	12-Jan-24	103	Mr. Peter Parker

105	Milestone - Test results document- Sign Off	0 days	12-Jan-24	12-Jan-24	104	
106	System Deployment	20 days	04-Apr-24	01-May-24	75	
107	Basic environment configuration	10 days	04-Apr-24	17-Apr-24		Mr. Bruce Wayne; Mr. Clark Kent
108	Installation	5 days	18-Apr-24	24-Apr-24	107	Mr. Bruce Wayne; Mr. Clark Kent
109	Dedicated environment configuration	5 days	25-Apr-24	01-May-24	108	Mr. Bruce Wayne; Mr. Clark Kent
110	Pilot Run	47 days	02-May- 24	05-Jul-24	106	
111	Data Monitoring	10 days	02-May- 24	15-May-24		Mr. Bruce Wayne
112	Backup Data	15 days	16-May- 24	05-Jun-24	111	Mr. Bruce Wayne
113	User feedback	8 days	06-Jun-24	17-Jun-24	112	Mr. Clark Kent
114	Change request analysis	4 days	18-Jun-24	21-Jun-24	113	Mr. Bruce Wayne; Mr. Clark Kent
115	Change implementation buffer	10 days	24-Jun-24	05-Jul-24	114	Mr. Bruce Wayne; Mr. Clark Kent
116	System Switching	47 days	08-Jul-24	10-Sep-24	110	
117	Data Backup	10 days	08-Jul-24	19-Jul-24		Mr. Bruce Wayne

118	Preparing production environment	7 days	22-Jul-24	30-Jul-24	117	Mr. Clark Kent; Mr. Bruce Wayne
119	Phased conversion	30 days	31-Jul-24	10-Sep-24	118	Mr. Bruce Wayne; Mr. Clark Kent
120	Closure	41 days	11-Sep-24	06-Nov-24	56	
121	Training	26 days	11-Sep-24	16-Oct-24		
122	Documentation	10 days	11-Sep-24	24-Sep-24	116	Mr. Steve Rogers; Mr. Clark Kent; Mr. Bruce Wayne
123	User training	16 days	25-Sep-24	16-Oct-24	122	Mr. Tony Stark; Mr. Clark Kent
124	Administrator training	5 days	25-Sep-24	01-Oct-24	123	Mr. Steve Rogers
125	Transition to BAU	10 days	17-Oct-24	30-Oct-24	121	
126	Share information that relates to the overall strategy	5 days	17-Oct-24	23-Oct-24		Mr. Tony Stark
127	Create and share these materials for successful onboarding	5 days	24-Oct-24	30-Oct-24	126	Mr. Tony Stark
128	Handover Signoff	2 days	31-Oct-24	01-Nov-24	127	Mr. Tony Stark

129	Milestone	0 days	01-Nov-24	01-Nov-24	128	Mr. Stark	Tony
130	Signoff Project Done	3 days	04-Nov-24	06-Nov-24	129	Mr. Stark	Tony
131	Milestone	0 days	06-Nov-24	06-Nov-24	130	Mr. Stark	Tony

Table 1: Detail Task List

Milestones Table

ID	Milestone	Where in the Project Plan	Deliverable	Description
1	Project Charter Signoff	Project Initiation	1.1 Project Charter Document	Contain information about scopes, budget, probable team and resources required. This document needs to be signed by clients

2	PID drafted	Project Initiation	2.1 Project Initiation Document	This document provides information about context, scope, business case, risk, and team members. This document need to be signed off by client
3	Kickoff Meeting	Project Initiation	Conduct Project Kickoff & Project Kickoff Minutes of Meeting	This meeting will mark the end of the onboarding of the team and the beginning of the project. The Stakeholders involved and point of contact, as well as communication channels, will be clear. Output from the meeting is the Minutes of meeting that need to be signed off by stakeholders

4	Requirement Signoff	Project Planning	4.1 Requirement Document. 4.2 blueprint Document.	The system will be designed based on this document. Crucial for system design and testing as it acts as a guideline. The client must sign off this document to ensure they agreed with the requirement gathered by SoftEng
5	Functional Design Signoff	Project Planning	5.1 Functional Design Document.	A functional Design Document provides information about: Functional Requirements, Use cases, logic specifications, & Test Plans. The client must sign off this document to ensure they agreed with the design by SoftEng

6	Technical Design Signoff	Project Planning	6.1 Technical Design Document	This document provides information about Data Types, structures required, detailed class models, specific algorithm, and Physical data models. The client must sign off this document to ensure they agreed with the design by SoftEng
7	Testing Signoff	Project Execution	7.1 QA Test Doc - UI QA test - ETL QA test - Functionality QA - Integration QA test - Data Migration QA test 7.2 Regression Test Doc 7.3 UAT Doc 7.4 UAT Regression Doc 7.5 Security Test Doc	Several documents provided evidence of tests are getting passed (the example: snapshots) and need to be approved by the client. The project manager is monitoring each part of testing to have control over the development process. Specifically, the QA test doc contains results on: - UI QA test obtained on 24th Nov 23 - ETL QA Test obtained on 18 Dec 23 - Functionality QA test obtained on 21 Mar 2024 - Integration QA obtained on 04 Mar 24. - Data Migration QA obtained on 01 Apr 23

8	Go Live / System Switched	Project Execution	8.1 Information Systems (the application)	The System is available to use by the users.
			9.1 User Manual (Guideline)	
9	Handover signoff	Project Closure	9.2 Operational Document	These deliverables are needed as a benchmark for users or the operational team to run the system. Each document needs to be signed off by the client, which
			9.3 Training Conducted	means the client agrees with the documents
			9. 4 Handover Document	
10	Signoff Project Done	Project Closure	10.1 Project Closure report	This document provides information about the project, goals, overview, project accomplishment, project lesson learned, and also recommendation for the next project. By signing off this document, the project is completely done

Table 2: Milestone Table

This project has several milestones in each project phase.

- Project charter signoff: The project charter contains project goals, cost, duration, and
 potential risks created by the project manager. It needs to be reviewed and signed off
 by project sponsors to ensure all sponsors agree to start the project.
- PID: The SoftEng team prepares the scope document containing project objectives, project scope description, project deliverables, project assumptions, and project exclusions. This document needs to be signed off by project sponsors and business users to agree on which parts are in-scope project and out-scope of the project.
- Kick-off Meeting: All stakeholders must attend the kick-off meeting as the official starting point to start the project:
 - To Have Clear Direction and Expectations from Project Sponsor regarding our Project.
 - Ensure all stakeholders get the same information, perception, and goals.
 - To Present Project Planning and Methodology to ensure all team members have the same understanding.
 - Getting commitment from all stakeholders.
- Requirement signoff: After the business analyst collects the use cases and requirements from business users and analyses the requirements, BA creates the use case documents, requirement documents, and test case documents. Which needs to be reviewed and signed off.
- Functional System Design: Functional System Design provides detailed information on how the system solution will operate based on the desired behavior. This document is derived from the Business Requirements Document's high-level requirements and

provides traceability from the functional specification to the business requirements. By signing off this document, the technical team can start designing the technical parts.

- Technical System Design: A Technical System Design Document is composed by the technical team and defines every minute detail of the design or specific components.
- Testing Signoff: Once the technical team develops the system, it needs to be tested in several testing to ensure the system works, such as QA testing, System Integration testing, regression testing, User Acceptance testing, and security testing. These testing needs to be documented and signed off by the responsible parties.
- Go live system / System Switched: After successful user acceptance, the system is deployed in the development environment, and if the pilot runs to give the expected results, the system goes live for all users.
- Handover signoff: This is the phase in which KnowHow employees already operate the system. There is no more involvement by the Diamond team in operating the system.
- Project Closing Signoff: This is a milestone that the project is completely done. This document included all the checklist activities and documentation that the responsible parties completed and signed. This phase is also the last milestone SoftEng needs to complete to bill the invoice.

Detailed Project Plan

The project will begin on May 10, 2023, and conclude on November 6, 2024. The project initiation phase will last for 21 days, followed by project planning lasting 71 days. The project execution will take up most of the project duration lasting 279 days, followed by the final stage of project closure lasting 41 days. Consistent with Simpson and Sheppard (1994). Software testing is a review of requirements analysis, design and coding before the software goes live, with enough testing at each stage to discover issues. Lapointe and Rivard (2007) state that to successfully implement the system, developing and conducting contingency plans, establishing standard operating procedures, publishing technical manuals, creating a testing environment and additional relevant jobs are required. Monitoring and controlling is done throughout the project via a communication plan and meetings to check on cost creep, scope creep, duration creep and maintenance and evaluation of defect logs as well as risk registry and hence this phase will be 391 days long.

The project Manager will be involved in the project from the beginning to the end for 18 months and will be utilized throughout the project, and will be responsible for tracking and controlling project activities and all milestones. The Lead system architect, an in-house employee in charge of design, implementation and micro-management of the technical side of the project, will be involved starting from team creation until the project is completed. The outsourced business analyst will be involved in the initial stages of the project to bridge the gap between the users and the technical team and will be utilized for 64 days. The front-end and back-end developers will be involved starting from the environment setup phase, they are outsourced employees lasting for 284 and 243 days respectively. The QA test led by an in-house employee will be part of creating test cases in the beginning and then will be utilized from the testing phase and will last for 114 days.

To reduce the duration of the project, a few tasks are done parallelly beginning from the initiation phase, where as soon as the project charter is put together, the process of creating a team will be started, the outsourced employees will be interviewed from a pool of reserve list maintained by SoftEng. Once the technical design is signed off, the environment setup will be started parallelly, with the test lead working on test case preparation and the development team working on environment setup. Front and back-end development will work parallelly coordinated by the lead technology architect with each system developed parallelly. The QA testing will be carried out after unit testing of the first system for example, once the UI unit testing is completed, QA will start on UI QA testing, and the front-end developer will be developing data entry and retrieval at the same time to fix QA bugs in UI. To manage workload, the QA lead will also help with unit testing. Here the team has taken elements of agile to produce small working components that could be accessed by the client if required to reassure the client and keep optimum quality while sticking to the timeline. Due to the absence of pre-existing information systems, data migration to the cloud takes more time since historical data, digital and non-digital, has to be migrated to the cloud. After several testing phases, SoftEng will install the system in the production server and run it parallel with the initial system to ensure the new system is established well. After the pilot run ends, SoftEng turns off the old system, and KnowHow will totally use the new system.

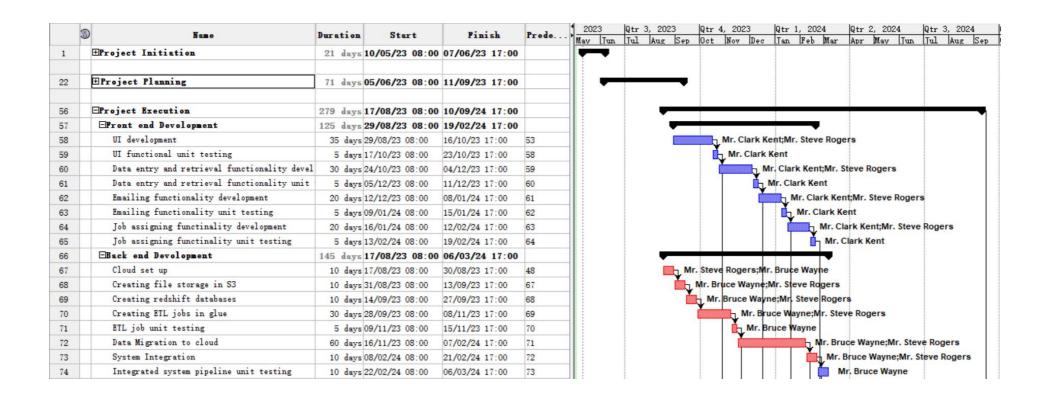
Softeng needs to hand over all the systems to Knowhow. It will start to document all the technical and non-technical system works, such as manual guides, create documentation such as reviews, audits, and lessons learned, and conduct training for all users and the operation team. It is followed by the transition to BAU (Business as Usual). To complete this project, all the stakeholders will give the project sign-off done as the completion of this work.

Gantt Chart

2	Name	Duration	Start	Finish	Prede	2023	Qtr 3, 2023	Qtr
1	□Project Initiation	21 days	10/05/23 08:00	07/06/23 17:00		May Jun	Jul Aug Sep	Oct
2	Develop Project Charter			26/05/23 17:00				
3	Collect relevant information	3 days	10/05/23 08:00	12/05/23 17:00		Mr. To	ony Stark	
4	Develop project Charter document	5 days	15/05/23 08:00	19/05/23 17:00	3	Mr.	Tony Stark	
5	Project Sponsor Review	2 days	22/05/23 08:00	23/05/23 17:00	4		R - Anne Gerbot	
6	Revise the project charter	2 days	24/05/23 08:00	25/05/23 17:00	5	H Mr.	Tony Stark	
7	Project Charter Signoff	1 day	26/05/23 08:00	26/05/23 17:00	6	Lus	R - Anne Gerbot	
8	Milestone- Project charter signed off	0 days	26/05/23 17:00	26/05/23 17:00	7	♦ 26/		
9	Team Creation	20 days	10/05/23 08:00	06/06/23 17:00		-		
10	Selecting internal team members	2 days	10/05/23 08:00	11/05/23 17:00		Mr. To	ony Stark	
11	Selecting outsourced team members	10 days	15/05/23 08:00	26/05/23 17:00	3	Mr	Tony Stark	
12	Team ice breaking event	1 day	29/05/23 08:00	29/05/23 17:00	11	I M	. Tony Stark	
13	Account set up for team memebers	7 days	29/05/23 08:00	06/06/23 17:00	11	יום	Mr. Steve Rogers	
14	∃Define Scope	18 days	15/05/23 08:00	07/06/23 17:00			4 6 7 7	
15	Analysis the user requirements document	1 day	07/06/23 08:00	07/06/23 17:00	13		Mrs. Natasha Roma	anolf
16	Define in-scope and out of scope	3 days	15/05/23 08:00	17/05/23 17:00	3	Mrs.	Natasha Romanoli	f
17	Develop Scope document	3 days	18/05/23 08:00	22/05/23 17:00	16	Mrs	. Natasha Romano	olf
18	Scope Signoff	1 day	23/05/23 08:00	23/05/23 17:00	17	Mr.	Tony Stark	
19	Develop PID	7 days	24/05/23 08:00	01/06/23 17:00	18	L M	r. Tony Stark	
20	Kickoff Meeting	1 day	02/06/23 08:00	02/06/23 17:00	19	L N	r. Tony Stark	
21	Milestone- PID completed	0 days	02/06/23 17:00	02/06/23 17:00	20		2/06	

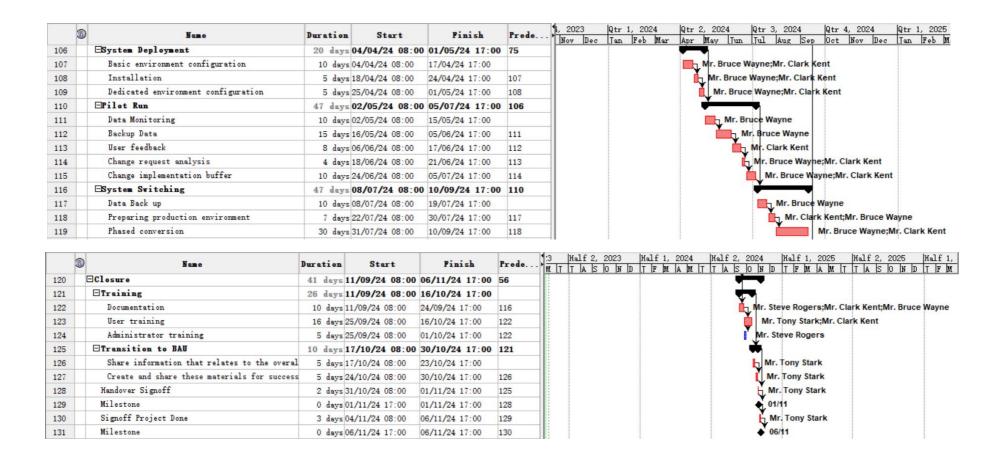
2	D Name	Duration	Start	Pinish	Prede	202		Qtr 3				4, 2	023 , Dec		1, 20	24 Mar	_	2, 20: May	_
1	⊕Project Initiation	21 days	10/05/23 08:00	07/06/23 17:00		may	- Jun	ļ,iπ	JAU	g 19eb	Just	INO	/ Дес	an	lrep	pnar	JAPI	pnay	1,140
22	⊟Project Planning	71 days	05/06/23 08:00	11/09/23 17:00			_			_									
23	Erequirement Gathering	37 days	05/06/23 08:00	25/07/23 17:00			_	\vdash											
24	Prepare for the Interview	2 days	05/06/23 08:00	06/06/23 17:00	20		L M	rs. Na	tast	na Rom	anolf								
25	Interview with Anne Gerbot	1 day	07/06/23 08:00	07/06/23 17:00	24		M.	rs. Na	atasi	ha Rom	anolf								
26	Interview with staffs	10 days	07/06/23 08:00	20/06/23 17:00	24		L	Mrs.	. Nat	asha Ro	omano	olf							
27	Analysis interview transcript	5 days	21/06/23 08:00	27/06/23 17:00	26		ň			tasha F									
28	Design and review the use case	8 days	28/06/23 08:00	07/07/23 17:00	27			M M	Ar. T	ony Sta	rk;Mr	s. Nat	asha Ro	mano	olf				
29	Develop User requirement document	5 days	10/07/23 08:00	14/07/23 17:00	28			Th	Mrs	. Natas	ha Ro	mano	lf						
30	Negotiate requirements analysis with users	2 days	17/07/23 08:00	18/07/23 17:00	29					s. Natas	1								
31	Update the user requirements document	5 days	17/07/23 08:00	21/07/23 17:00	29			Ĭ	Mr	s. Nata	sha R	oman	olf						
32	Requirement Signoff	2 days	24/07/23 08:00	25/07/23 17:00	31			ì	U	SER - Sr	ree Pa	tel;US	ER - Mo	Jona	s				
33	Milestone- Requirement Document sign off	0 days	25/07/23 17:00	25/07/23 17:00	32			4	25	5/07									
34	⊡Modelling .	15 days	26/07/23 08:00	15/08/23 17:00	23				ř.										
35	Analysis with Interview document, User requi:	3 days	26/07/23 08:00	28/07/23 17:00					h.N	Ar. Stev	re Rog	ers							
36	Draw the rich picture	4 days	31/07/23 08:00	03/08/23 17:00	35				Ĭ	Mrs. Na	atasha	Rom	anolf;M	r. Ste	ve Rog	jers			
37	Develop System Modelling document	4 days	31/07/23 08:00	03/08/23 17:00	35				L	Mr. Ste	ve Ro	gers;	Mrs. Na	tasha	Roma	nolf			
38	Negotiate System Modelling document with use:	2 days	04/08/23 08:00	07/08/23 17:00	37				6	Mrs. N	latash	a Rom	nanolf;N	Ar. Ste	ve Ro	gers			
39	Update the System Modelling document	3 days	08/08/23 08:00	10/08/23 17:00	38				L	Mrs.	Natash	na Ron	nanolf;	Mr. Ste	eve Ro	gers			
40	Functional Design Review	2 days	11/08/23 08:00	14/08/23 17:00	39				8	Mr. S	Steve	Roger	s;Mr. T	ony St	ark;M	rs. Nat	asha F	Roman	nolf
41	Functional Design Sign off	1 day	15/08/23 08:00	15/08/23 17:00	40					USEF	R - Mo	Jonas	;USER	Sree	Patel				
42	Milestone - Functional design document sign	0 days	15/08/23 17:00	15/08/23 17:00	41				4	15/08	3								

	-					202	3	Qtr 3,	2023	Qtr 4,	2023	Qtr 1, 2	2024
	Wane Name	Duration	Start	Finish	Prede		_		Aug Sep	Oct	Nov Dec		
1	#Project Initiation	21 days	10/05/23 08:00	07/06/23 17:00			•						
22	⊡Project Planning	71 days	05/06/23 08:00	11/09/23 17:00			_						
23	Erequirement Gathering	37 days	05/06/23 08:00	25/07/23 17:00			•		2				
34	⊞Modelling	15 days	26/07/23 08:00	15/08/23 17:00	23			Ť					
43	∃Technical System Architecture Design	17 days	16/08/23 08:00	07/09/23 17:00	34				—				
44	Anallysis of system models and design	2 days	16/08/23 08:00	17/08/23 17:00					₩r.	Steve Ro	gers		
45	Designing technical architecture	15 days	18/08/23 08:00	07/09/23 17:00	44				L	Mr. Steve	Rogers		
46	Develop technical architecture document	3 days	18/08/23 08:00	22/08/23 17:00	44				Mr.	Steve Ro	ogers		
47	Technical design review	4 days	23/08/23 08:00	28/08/23 17:00	46				М	r. Steve I	Rogers;Mr.	Tony Sta	rk
48	Technical Design Signoff	1 day	16/08/23 08:00	16/08/23 17:00					L USER	R - Mo Jo	nas;USER -	Sree Pate	al
49	Milestone - Technical design document sign o	0 days	16/08/23 17:00	16/08/23 17:00	48				16/0	8			
50	Test case design	5 days	17/08/23 08:00	23/08/23 17:00	48				Mr.	. Peter Pa	arker;Mrs.	Natasha F	lomano
51	Test case sign off	1 day	24/08/23 08:00	24/08/23 17:00	50				US	ER - Mo J	onas;USER	- Sree Pa	tel
52	⊟Environtment Setup	18 days	17/08/23 08:00	11/09/23 17:00					+				
53	Setup Development Environment	8 days	17/08/23 08:00	28/08/23 17:00	48				M M	r. Clark K	ent;Mr. Br	uce Wayn	е
54	Setup Testing environment	8 days	17/08/23 08:00	28/08/23 17:00	48				M	r. Bruce	Wayne;Mr.	Clark Ker	it
55	setup production environtment	10 days	29/08/23 08:00	11/09/23 17:00	54					Mr. Bru	e Wayne;	Mr. Clark	Cent



3	Name	Duration	Start	Pinish	Prede	20 May	23 Tun	3, 2023 Aug S	r 4, 20		Qtr 1, 20 Jan Feb		Qtr 2,	2024 May Ju		3, 2024 Aug
75	⊟Testing	117 days	24/10/23 08:00	03/04/24 17:00				1	_	Total Control			•			
76	UI QA testing	8 days	24/10/23 08:00	02/11/23 17:00	59				L N	Ir. Pete	Parker					
77	UI bug fixes	10 days	03/11/23 08:00	16/11/23 17:00	76					Mr. CI	ark Kent					
78	UI QA retest	5 days	17/11/23 08:00	23/11/23 17:00	77					Mr. F	eter Parke	er				
79	Data entry and retrieval functionality QA te	8 days	12/12/23 08:00	21/12/23 17:00	61						Mr. Peter	Parker				
80	Data entry and retrieval functionality bug f	10 days	22/12/23 08:00	04/01/24 17:00	79						Mr. Cla	rk Kent				
81	Data entry and retrieval functionality QA re	5 days	05/01/24 08:00	11/01/24 17:00	80						Mr. P	eter Par	ker			
82	Emailing functionality QA testing	8 days	16/01/24 08:00	25/01/24 17:00	63						Mr. Mr	. Peter F	arker			
83	Emailing functionality QA fixes	10 days	26/01/24 08:00	08/02/24 17:00	82						Щ.	Mr. Clar	k Kent			
84	Emailing functionality QA retesting	5 days	09/02/24 08:00	15/02/24 17:00	83						Ĭ	Mr. Pe	ter Par	ker		
85	Job assigning functinality QA testing	8 days	20/02/24 08:00	29/02/24 17:00	65							Mr.	Peter I	Parker		
86	Job assigning functinality QA fixes	10 days	01/03/24 08:00	14/03/24 17:00	85							E. N	Mr. Clar	rk Kent		
87	Job assigning functinality QA retesting	5 days	15/03/24 08:00	21/03/24 17:00	86							ď	Mr. Pe	ter Park	er	
88	ETL job QA testing	8 days	16/11/23 08:00	27/11/23 17:00	71					Mr.	Peter Park	er				
89	ETL job QA fixes	10 days	28/11/23 08:00	11/12/23 17:00	88					T _n N	r. Clark Ke	ent				
90	ETL job QA retesting	5 days	12/12/23 08:00	18/12/23 17:00	89					i in	Mr. Peter	Parker				
91	Data Migration QA testing	23 days	08/02/24 08:00	11/03/24 17:00	72							D, M	Ir. Pete	r Parker		
92	Data Migration QA fixes	10 days	12/03/24 08:00	25/03/24 17:00	91								Mr. C	lark Ken	t	
93	Data Migration QA retesting	5 days	26/03/24 08:00	01/04/24 17:00	92								Mr.	Peter Pa	rker	
94	Integration QA Test	8 days	22/02/24 08:00	04/03/24 17:00	73							Mr.	Peter	Parker		
95	Integration bug fixes	10 days	05/03/24 08:00	18/03/24 17:00	94								1	rk Kent		
96	Regression Testing	10 days	19/03/24 08:00	01/04/24 17:00	95							¥	Mr.	Peter Pa	rker	
97	Testing sign off	2 days	02/04/24 08:00	03/04/24 17:00	96								Mr.	Peter Pa	rker	
98	Milestone- Test document	0 days	03/04/24 17:00	03/04/24 17:00	97								03/0	14		

30	Name	Duration	Start	Finish	Prede	2023 May Tun	Qtr 3, 2023 Tul Aug Sep	Qtr 4, 2023 Oct Nov Dec	Qtr 1, 2024 Jan Feb Mar	Qtr 2, 2024 Apr May Tun	Qtr 3, 2024 Jul Aug Sep
® _{F1}	User Acceptance Test	30 days	24/11/23 08:00	04/01/24 17:00	78				USER - John L		
100	User Acceptance Fixes	15 days	05/01/24 08:00	25/01/24 17:00	99			100	Mr. Clark	Kent;Mr. Bruce W	ayne;Mr. Steve Roge
101	User Acceptance Retesting	5 days	26/01/24 08:00	01/02/24 17:00	100				USER - J	ohn Louis	
102	Bug fixes from UAT	15 days	02/02/24 08:00	22/02/24 17:00	101			,	Mr.	Bruce Wayne;Mr.	Clark Kent
103	UAT regression testing	4 days	19/12/23 08:00	22/12/23 17:00	90				Mr. Peter Parke	r;USER - John Lou	is
104	Security Test (Inc: Bugs Fixing)	15 days	25/12/23 08:00	12/01/24 17:00	103		0		Mr. Peter Pa	arker	
105	Milestone - Test results document-Sign Off	0 days	12/01/24 17:00	12/01/24 17:00	104				♦ 12/01		



Project Communication Plan

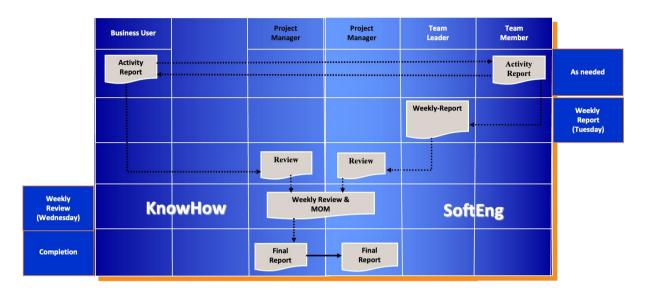


Fig 2: Communication channels

To control the project. Every Wednesday, Project managers from KnowHow and SoftEng conduct a weekly meeting to give progress on the past seven days and plan for the next seven. A meeting MOM is created, and the report is sent to all the stakeholders. The internal daily meeting is conducted, and the lead architect sends progress reports to the Project Manager weekly on Tuesdays. Communication and decision making for change request is as shown in fig 3.

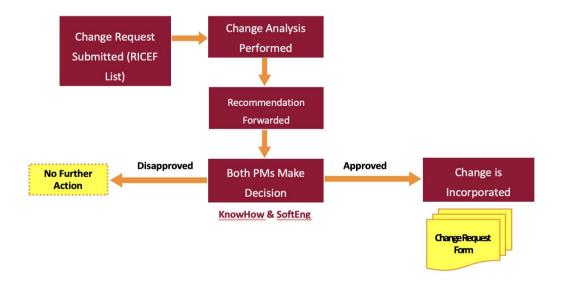


Fig 3: Change Control Management

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Appendix

Cloud Services Cost Comparison

Cloud Bervices Cost Co		<u> </u>
Cloud service	Storage	Price
AWS		\$0.023 GB/month
Azure		\$0.021 GB/month
Google Cloud		\$0.023 GB/month
Cloud service	instance/computing	Price
AWS	t4g.xlarge	\$0.1344
Azure	B4ms	\$0.166
Google Cloud	e2-standard-4	\$0.150924

Table 3: Price comparison between cloud service providers

Cloud Services Domination

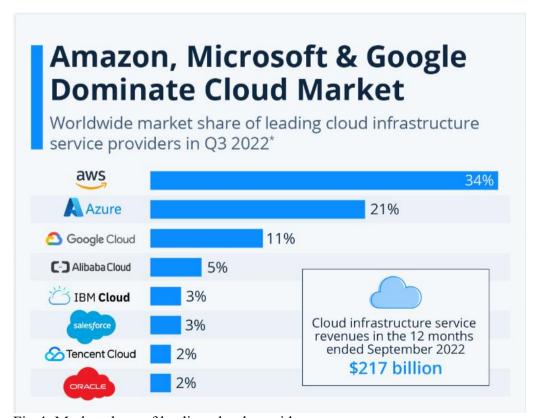


Fig 4: Market share of leading cloud providers.

Cloud Services Cost

AWS Service	Configuration	Price per months
AWS S3	Standard storage(5000 GB per month) DT Inbound: Internet(1000 GB per month) DT Outbound:Internet(500 GB per month)	2,497.42
AWS Athena	Total number of queries: 20 per day Data amount scanned per query: 100GB	240.61
AWS Airflow	Version 1.10.12 50 concurrent workers for an hour per day	363.51

Table 4: Amazon services

Employee Salary

Job Role	In house/ Outsourced	Monthly Rate
PM	In house	4137
System Architect	In house	5401
QA Engineer	In house	2582
Frontend Engineer	Outsourced	1647
Backend Engineer	Outsourced	2917
Business Analyst	Outsourced	2083

Table 5: Salary for employees per month

Team Contract

Group Number: Group 5 Date: 6th March 2023

Project Team members (Names, Roles and Responsibilities)

Leader: Akash
Moderator: Yohannes

Proof-reader: Akash, Yohannes, Shuman, Fanqi, Zhengyu, Jinming

Writer: Akash, Yohannes, Shuman, Fanqi, Zhengyu, Jinming

Other responsibilities with respect to generating the report and which part of the report each member should undertake and complete in the agreed timeline will be decided in the following meetings as the team work progresses.

Review – Fill in only if there have been updates

Goals (what does the team hope to achieve)

To generate a report for the project based on the given case study of 2000 words within the given time limit. The document will include Project Charter, Scope Management Plan, and Detailed Project Plan.

To maintain an efficient, friendly, and inclusive working environment. The document itself will contain

Project Charter: It includes estimated cost, resources required, and outsourcing model Scope Management Plan: to put into practice using agile or waterfall and develop WBS Detail Project Plan: Based on DTL & WBS, a Gantt chart can produce, including the dependencies

To enhance analysis, teamworking, research, documentation, communication, time management, and task allocation skills.

To develop and practice information systems project management skills and knowledge

Review – Fill in only if there have been updates

Means of Communication (how will you communicate, how frequently will you be meeting)

Frequency of communication: We expect to meet once a week in person and daily on WhatsApp.

Review – Fill in only if there have been updates Rules and Expectations (what do you expect from one another, how will decisions be made) Attendance at meetings: We expect every member to attend all the meetings (both online and offline) on time. Participation: We expect every member to contribute to the project and provide inputs and ideas during the meetings and group chats. Quality of work: We expect the work to be error-free and abide by the unfair means guidelines. We expect to support each other, clear doubts, and have discussions on the analysis of the whole case study to have the same understanding so that each member is on the same page and the individual works produced are in sync. The availability of every member and common location will be confirmed before setting up a meeting and we expect every member to be present at the meetings. (The

frequencies of meetings are decided depending on the progress of the work)
To meet the deadlines for personal work.
The medium of communication will be in English. To
abide by the unfair means guidelines.
Rules: Failing to abide by any of the above rules, a warning will be provided twice within
a span of 5 days. Failing to provide an adequate reason and completing the work within
the time frame specified in the warning, escalation will be done to the Teaching Assistant
or Course Coordinator.
Review – Fill in only if there have been updates
Consequences (how will non-performance be addressed, relative to rules and
expectations so that the team can achieve its goals)

Failing to abide by any rules and policies, a warning will be provided twice within a span of 5 days. Failing to provide an adequate reason and completing the work within the time frame specified in the warning, escalation will be done to the Teaching Assistant or Course Coordinator.

Review – Fill in only if there have been updates

Team reflection (the cognitive process of the team)

In this group project, the motivated team members conducted their weekly team meetings based on the three principles of clarity of purpose, correctness of approach, and sincerity of attitude, fostering a casual and fun communication environment. When issues arose during meetings, the team members trusted one another to think and discuss them together to find the best answers. They also shared a common aim. At the same time, there is a distinct division of labor among the team members, with each having a specific task to complete. These duties complement one another, and the team as a whole work to coordinate the completion of this report.

Review – Fill in only if there have been updates

We share these goals and expectations, and agree to the above procedures and consequences.

Team member name: Akash Rajendran Nair
Team member name: Yohannes Nugroho Asitua Simorangkir
Team member name: Shuman Chen
Team member name: Fanqi Meng
Team member name: Zhengyu Sun
Team member name: Jinming Yang