

Internet Of Things

” Implementing IOT In the Workplace”

- Employee Wellness System -

Project Team Members Name's and ID's :

PROJECT GROUP NUMBER "A" (IN BLACKBOARD): I	
ID	NAME
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

CIS 414 - IT project managment 2024/2025

Instructor: Dr. Albandari Alamer

Submission Date: Dec 5th

Milestone -3

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Project cost estimates

Prepared by: Albandari Alnassar

Project Start Day: 2/12/2024

Cost Estimate										
project Name: internet of things			Date:5/12/2024							
wbs categories	internal labor	\$ hours	internal total	external labor	\$ hours	external total	total labor	non labor \$	total cost	% of total
1.initiating									\$ 13,450.00	11.33%
1.1 Kick - off meeting	2	\$ 150.00	\$ 300.00		\$ 300.00		300	500	\$ 800.00	
1.2 Assign project manager	2	\$ 150.00	\$ 300.00		\$ 250.00		300	1000	\$ 1,300.00	
1.3 Identify key stakeholders	2	\$ 100.00	\$ 200.00	8	\$ 300.00	\$ 2,400.00	2600	250	\$ 2,850.00	
1.4 Prepare project charter	4	\$ 150.00	\$ 600.00	8	\$ 200.00	\$ 1,600.00	2200	300	\$ 2,500.00	
1.5 Stakeholder Register	2	\$ 75.00	\$ 150.00	8	\$ 200.00	\$ 1,600.00	1750	200	\$ 1,950.00	
1.6 Stakeholder Strategy	2	\$ 75.00	\$ 150.00	8	\$ 200.00	\$ 1,600.00	1750	300	\$ 2,050.00	
2.planning									\$ 14,125.00	11.89%
2.1 Team contract	15	\$ 200.00	\$ 3,750.00		\$ 300.00		3750	500	\$ 4,250.00	
2.2 Scope statement	10	\$ 110.00	\$ 1,100.00		\$ 300.00		1100	500	\$ 1,600.00	
2.3 Project management plan	7	\$ 75.00	\$ 525.00		\$ 200.00		525	300	\$ 825.00	
2.4 Project organizational structure	7	\$ 75.00	\$ 525.00		\$ 200.00		525	300	\$ 825.00	
2.5 Responsibility assignment matrix	7	\$ 75.00	\$ 525.00		\$ 200.00		525	300	\$ 825.00	
2.6 Project cost estimate	5	\$ 100.00	\$ 500.00		\$ 300.00		500	300	\$ 800.00	
2.7 Prepare WBS	4	\$ 75.00	\$ 300.00	8	\$ 300.00	\$ 2,400.00	2700	300	\$ 3,000.00	
2.8 Schedule & cost	2	\$ 150.00	\$ 300.00	8	\$ 300.00	\$ 2,400.00	2700	300	\$ 3,000.00	
3.Executing									\$ 61,000.00	51.36%
3.1 Set Up IoT Devices & Sensors	25	\$ 100.00	\$ 2,500.00	8	\$ 700.00	\$ 5,600.00	8100	1000	\$ 9,100.00	
3.2 Build the Mobile App for Employees	25	\$ 100.00	\$ 2,500.00	8	\$ 1,000.00	\$ 8,000.00	10500	3000	\$ 13,500.00	
3.3 Build the Admin Dashboard	35	\$ 100.00	\$ 3,500.00	8	\$ 1,000.00	\$ 8,000.00	11500	2500	\$ 14,000.00	
3.4 Set Up the Backend	25	\$ 250.00	\$ 2,500.00	8	\$ 700.00	\$ 5,600.00	8100	1500	\$ 9,600.00	
3.5 Ensure Security & Privacy	20	\$ 250.00	\$ 2,000.00	8	\$ 600.00	\$ 4,800.00	6800	1000	\$ 7,800.00	
3.6 Test the System	10	\$ 250.00	\$ 1,000.00	8	\$ 400.00	\$ 3,200.00	4200	500	\$ 4,700.00	
3.7 Launch the System	10	\$ 250.00	\$ 1,000.00	8	\$ 600.00	\$ 4,800.00	5800	500	\$ 6,300.00	
4. Monitoring & Controlling									\$ 10,750.00	9.05%
4.1 Monitoring & Testing application	20	\$ 65.00	\$ 1,300.00	8	\$ 300.00	\$ 2,400.00	3700	200	\$ 3,900.00	
4.2 Progress Report	15	\$ 50.00	\$ 750.00	8	\$ 200.00	\$ 1,600.00	2350	100	\$ 2,450.00	
4.3 Trial before Launching the application	20	\$ 65.00	\$ 1,300.00	8	\$ 350.00	\$ 2,800.00	4100	300	\$ 4,400.00	
5. closing									\$ 6,150.00	5.17%
5.1 Final project Report	4	\$ 50.00	\$ 200.00	8	\$ 300.00	\$ 2,400.00	2600	200	\$ 2,800.00	
5.2 Final project Presentation	5	\$ 50.00	\$ 250.00	8	\$ 350.00	\$ 2,800.00	3050	300	\$ 3,350.00	
subtotal									\$ 11,450.00	
Reserves									\$ 107,325.00	
Total	328	\$ 3,240.00	\$ 29,625.00	120	\$ 10,550.00	\$ 68,800.00			\$ 118,775.00	
Assumptions										
all currency in dollars internal total= internal labor \$hours										
External total=External labor \$hours										
Total labor =Internal labor+External labor										
Total cost= Eternal total + internal total subtotal= sum of all total cost values										
Reserves= 10% of subtotal										

Table 1: Project Cost Estimates

Project organizational chart

Prepared by: Darah Al-Qahtani

Project Start Day: 2/12/2024

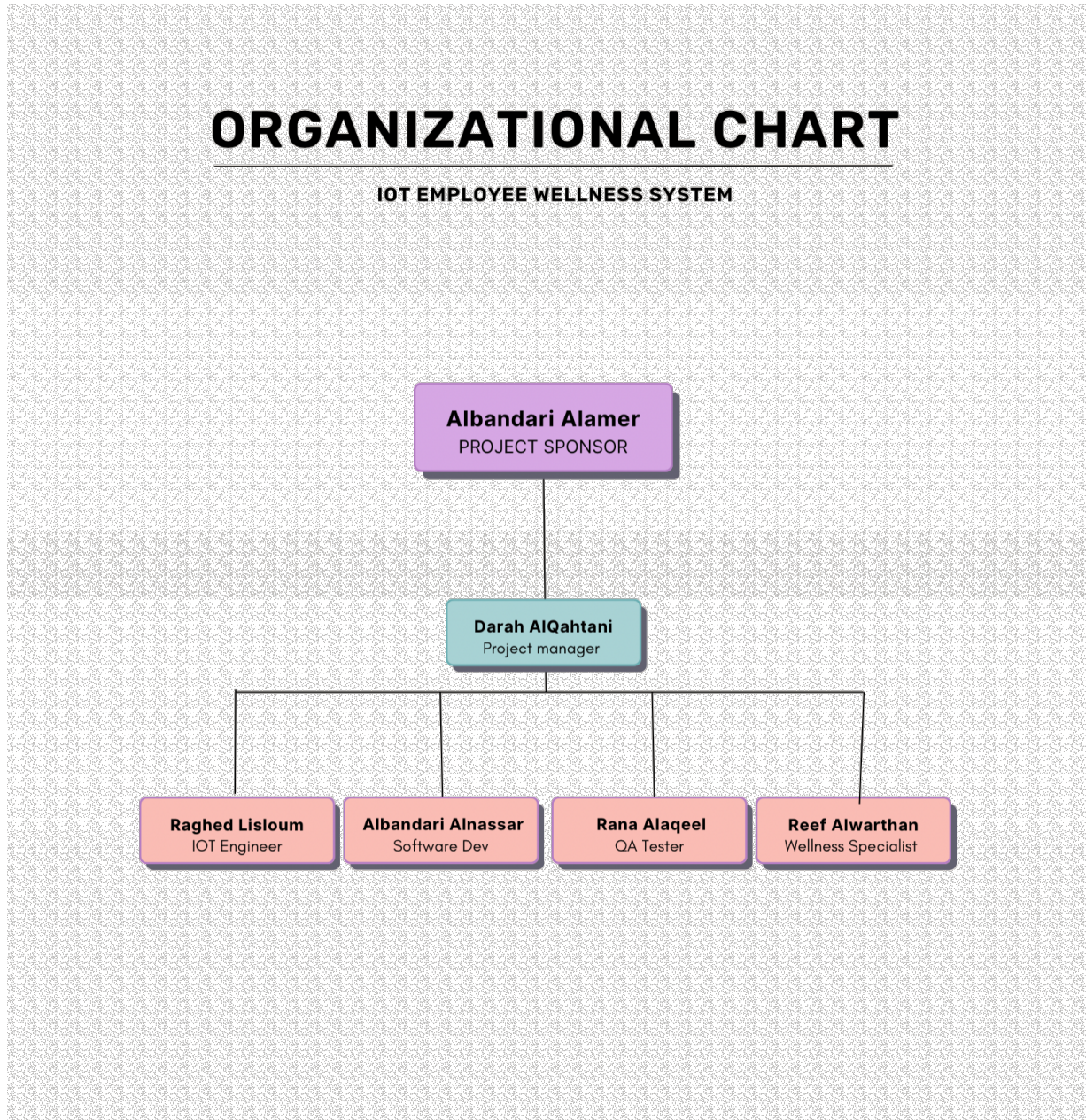


Figure 1: Project organizational chart

Responsibility Assignment Matrix

Prepared by: Reef Alwarthan

Project Start Day: 3/12/2024

OBS/WBS	Project Manager	Project Sponsor	Programmer	Software Developer	Business Analyst	Database Administrator	Supply Hardware & Software
1.1 Kick-off meeting	RP	A	-	-	-	-	-
1.2 Assign project manager	RP	P	-	-	-	-	-
1.3 Identify key stakeholders	RP	P	-	-	-	-	-
1.4 Prepare project charter	RP	P	-	-	RP	-	-
1.5 Stakeholder register	RP	P	-	-	RP	-	-
1.6 Stakeholder strategy	RP	P	-	-	RP	-	-
2.1 Team contract	RP	P	-	-	RP	-	-
2.2 Scope statement	RP	P	-	-	RP	-	-
2.3 Project management plan	RP	P	-	-	RP	-	-
2.4 Project organizational structure	RP	P	-	-	RP	-	-
2.5 Responsibility assignment matrix	RP	P	-	-	RP	-	-
2.6 Project cost estimate	RP	P	-	-	RP	-	-
2.7 Prepare WBS	RP	P	-	-	RP	-	-
2.8 Schedule & cost	RP	P	-	-	RP	-	-
3.1 Set up IoT Devices & Sensors	RP	A	R	P	-	-	RP
3.2 Build the Mobile App	RP	P	R	R	-	-	-
3.3 Build the Admin Dashboard	RP	P	R	R	-	-	-
3.4 Set Up the Backend	RP	P	R	R	-	RP	-
3.5 Ensure Security & Privacy	RP	P	-	R	-	-	-
3.6 Test the System	RP	A	-	P	-	-	-
3.7 Launch the System	RP	P	-	P	-	-	-
4.1 Monitoring & Testing Application	RP	A	-	P	P	-	-
4.2 Progress report	RP	P	-	P	-	-	-
5.1 Trial before launching the app	RP	A	-	P	R	-	-
5.1 Final project report	RP	P	-	-	-	-	-
5.2 Final project presentation	RP	P	-	-	-	-	-

Table 2: Responsibility Assignment Matrix

Resource Histogram

Prepared by: Darah Al-Qahtani

Project Start Day: 4/12/2024

Resources	September	October	November	December	Total
Project Sponsor	1	1	1	1	4
Project Manager	1	1	1	1	4
IoT Engineer	0	1	1	1	3
Software Developer	0	1	1	1	3
QA Tester	0	0	0	1	1
Wellness Specialist	0	0	0	1	1

Table 3: Table of resources

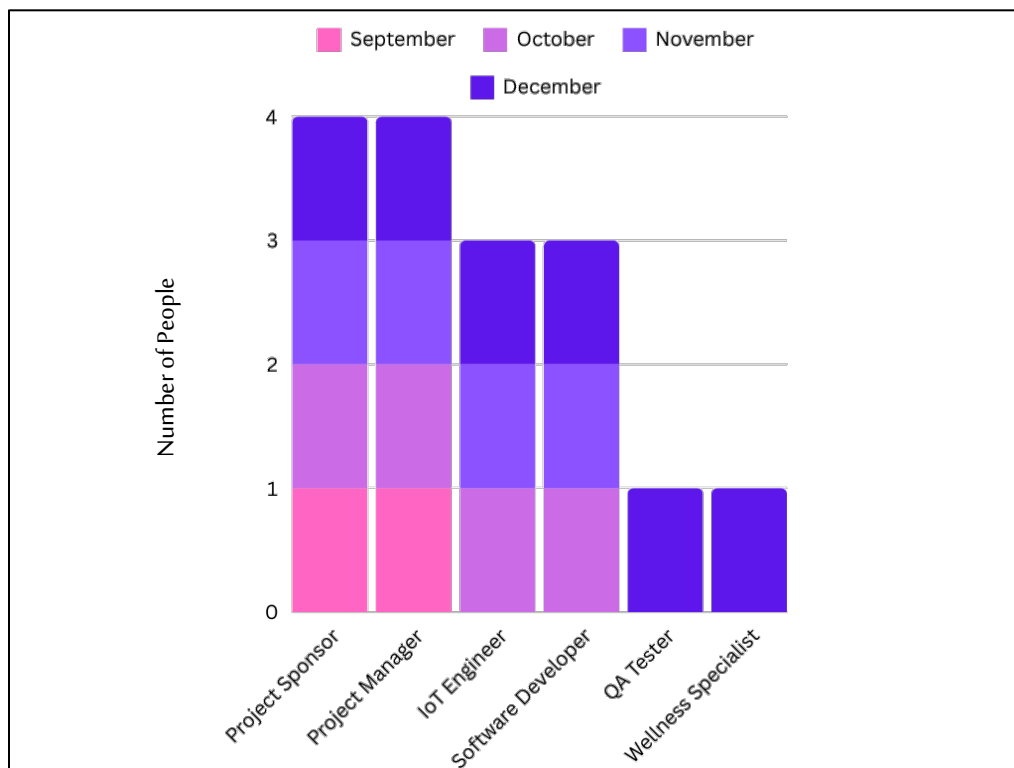


Figure 2: Resource Histogram

List of prioritized risk for : IoT Employee Wellness System

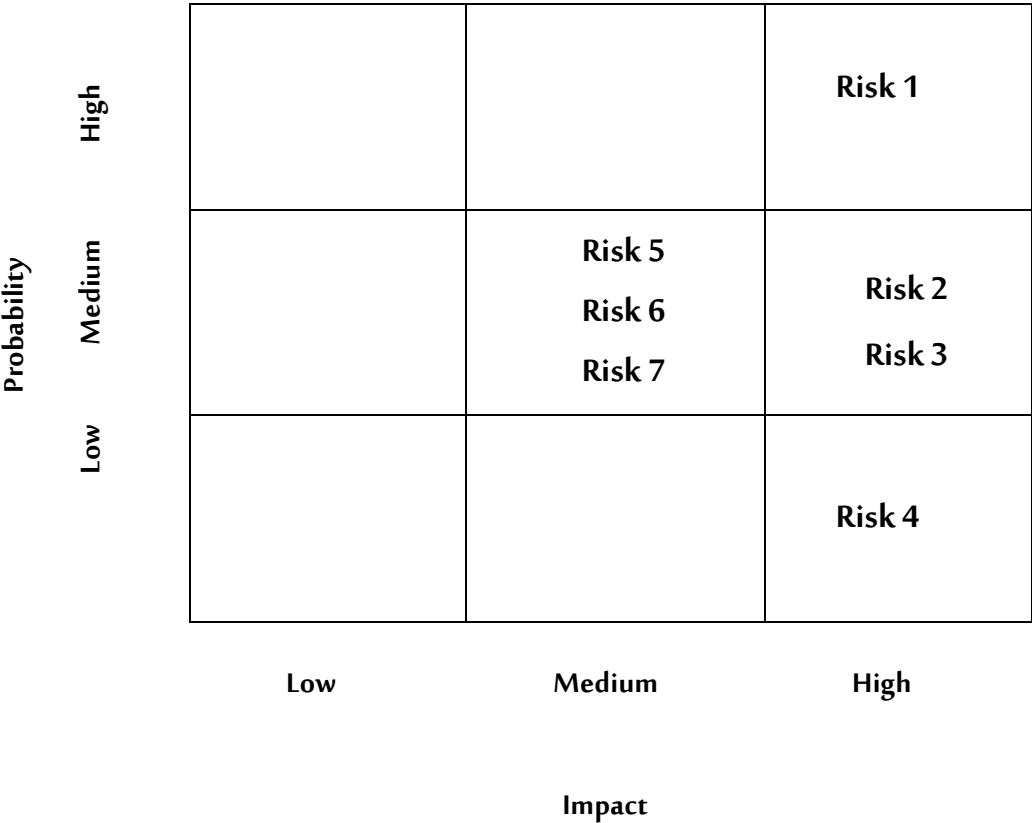
Prepared by: Rana Alaqeel

Date: 4/12/2024

Ranking	Potential Risk
1	Data privacy: Unsecured handling of sensitive wellness data.
2	Scope creep: Expanding beyond initial requirements.
3	Technical integration: Challenges in IoT system compatibility.
4	Unauthorized access: Security breaches in the system.
5	Communication gaps: Inefficient stakeholder engagement.
6	Budget constraints: Insufficient funding for completion.
7	Time delays: Project taking longer than anticipated.

Table 4: List of prioritized risks

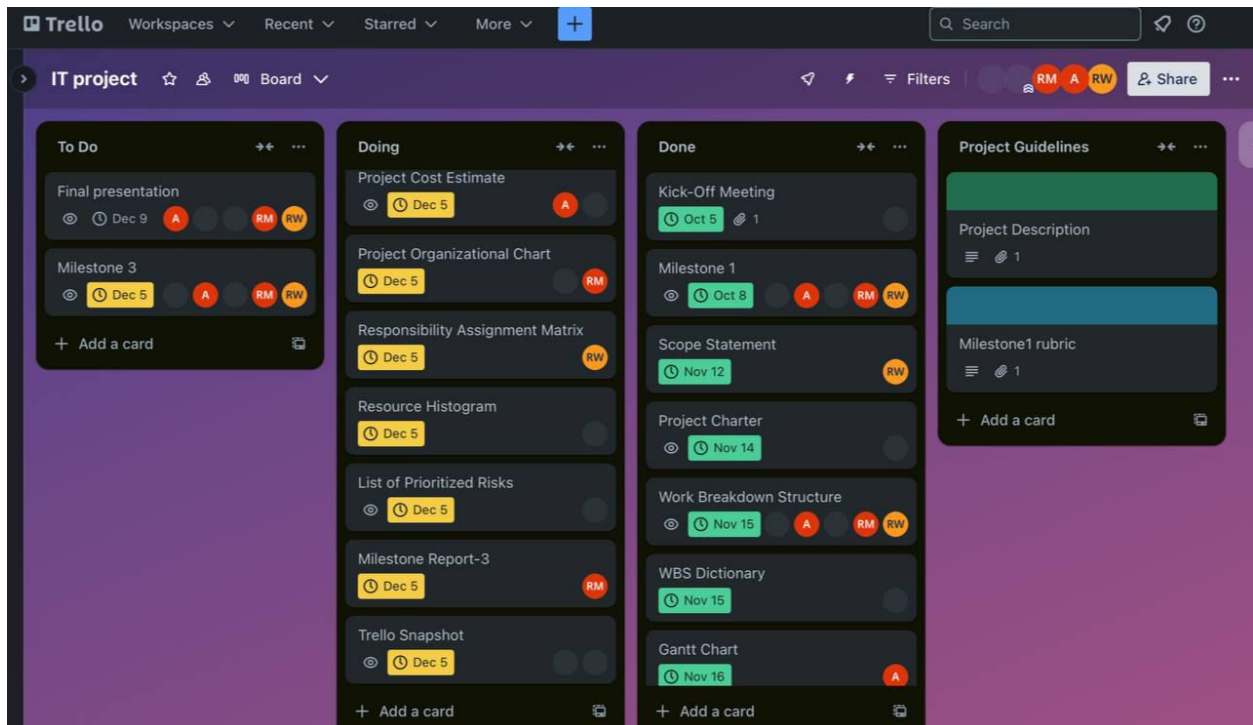
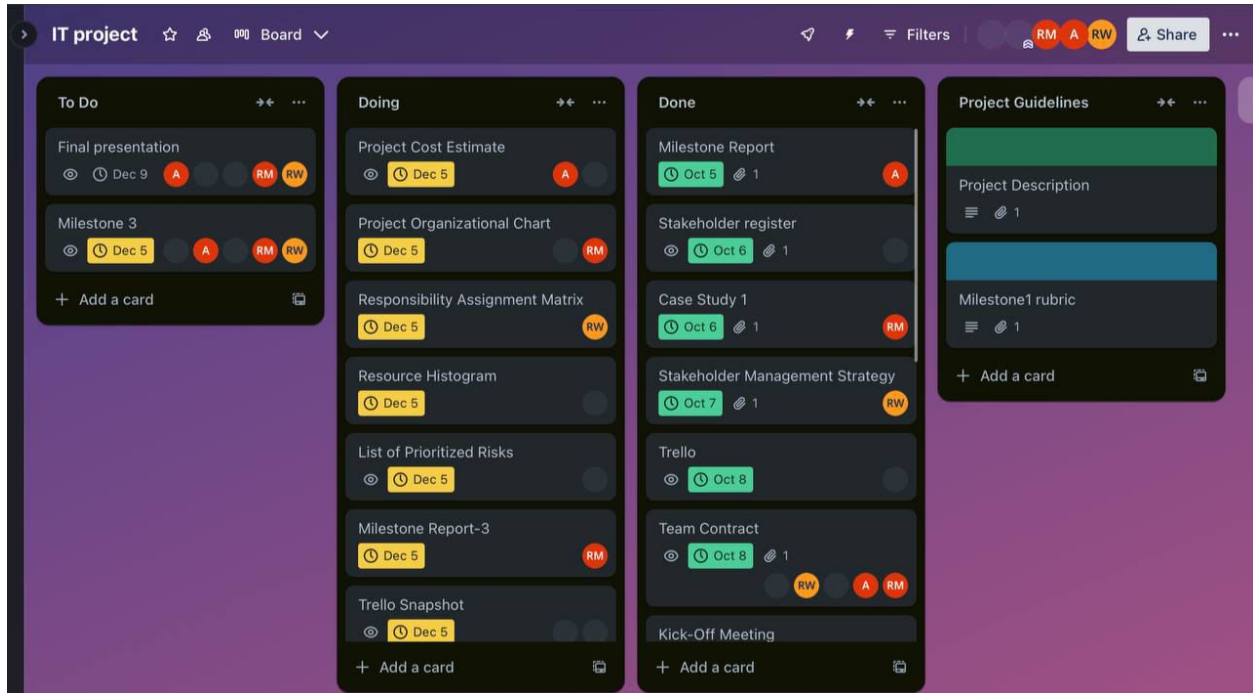
Figure 3: Risk and control matrix of the project



Trello Snapchat

Prepared by: Rana Alaqeel

Project Start Day: 5/12/2024



Milestone Report 3 for IOT wellness System

Prepared by: Raghad Lisloum

Date: 5/12/2024

Milestone	Date	Status	Responsible	Issues/Comments
Project Kickoff	1/12/2024	Completed	Rana and Raghad	Initial team meeting completed.
Project cost estimate	2/12/2024	Completed	Albandari	-
Project organizational chart	2/12/2024	Completed	Darah	-
Responsibility Assignment Matrix	3/12/2024	Completed	Reef	-
Resource Histogram	4/12/2024	Completed	Darah	-
List of prioritized Risks	4/12/2024	Completed	Rana	Reviewed with sponsor and team
Trello Snapshots	5/12/2024	Completed	Rana	-
User feedback Collection	29/12/2025	Upcoming	Raghad	Prepare survey questions for user feedback.
Unit Testing	1/1/2025	Upcoming	Reef	-
User Acceptance Testing	12/1/2025	Upcoming	Darah	Schedule sessions with users for feedback.
Project Closure	15/1/2025	Upcoming	Raghad	Finalize documentation and project handover.

Table 5 : Milestone 3 report