IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

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): 1	
ID	**NAME**
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CIS 414 - IT project managment 2024/2025

Instructor: Dr. Albandari Alamer

Submittion Date: Dec 5th

Milestone -3

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Project cost estimates

Prepared by ██████████

Project Start Day: 2/12/2024

	Cost Estimate								
project Name: internet of things			Date:5/12/2024						

wbs catagories	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 & Controling									$ 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 ▬▬▬▬▬▬▬
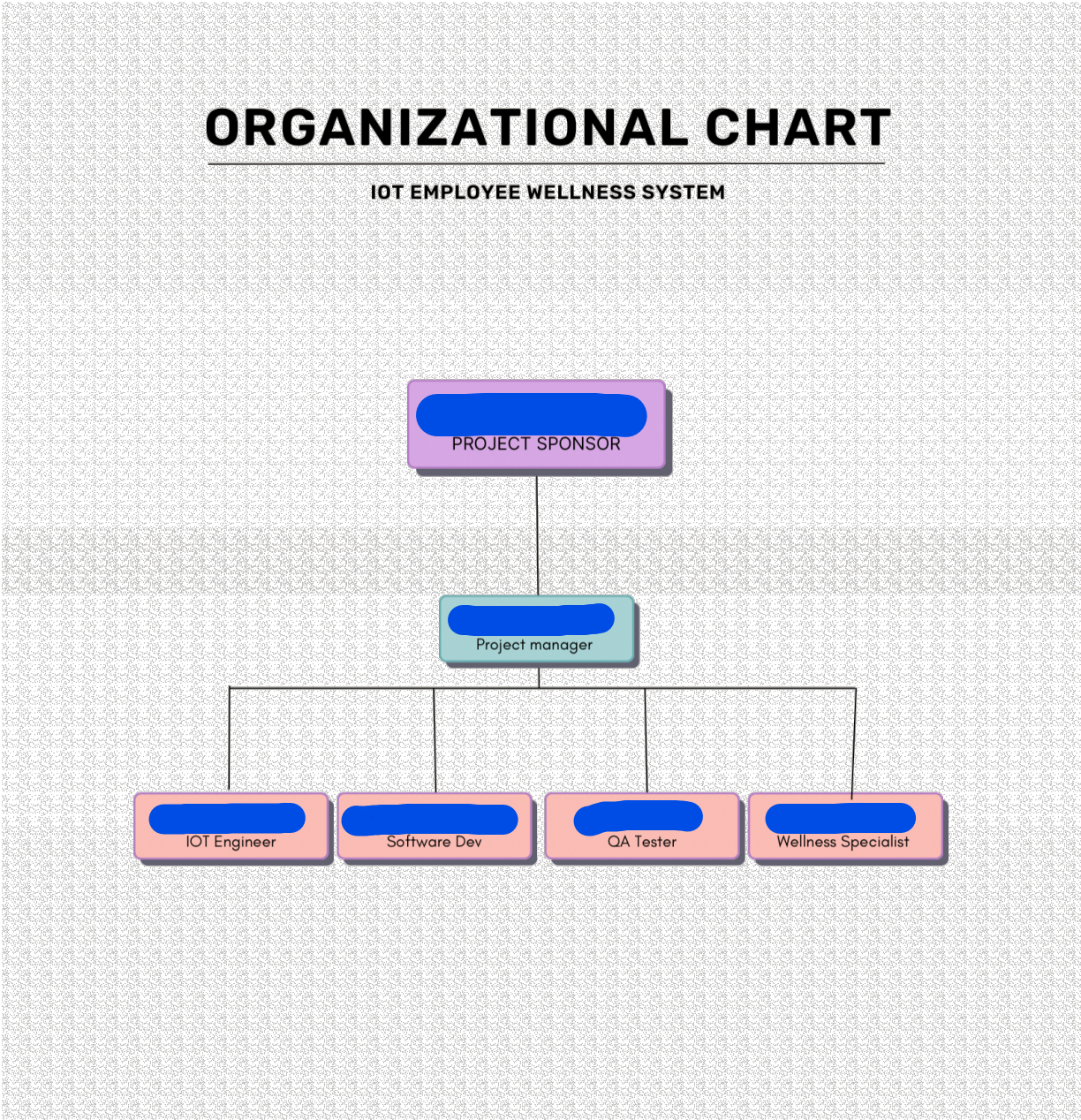
Project Start Day: 2/12/2024

ORGANIZATIONAL CHART

IOT EMPLOYEE WELLNESS SYSTEM

PROJECT SPONSOR

Project manager

IOT Engineer | Software Dev | QA Tester | Wellness Specialist

Figure 1: Project organizational chart

Responsibility Assignment Matrix

Prepared by: ████████

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	-	-	-
4.3 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 █████████████████

Project Start Day: 4/12/2024

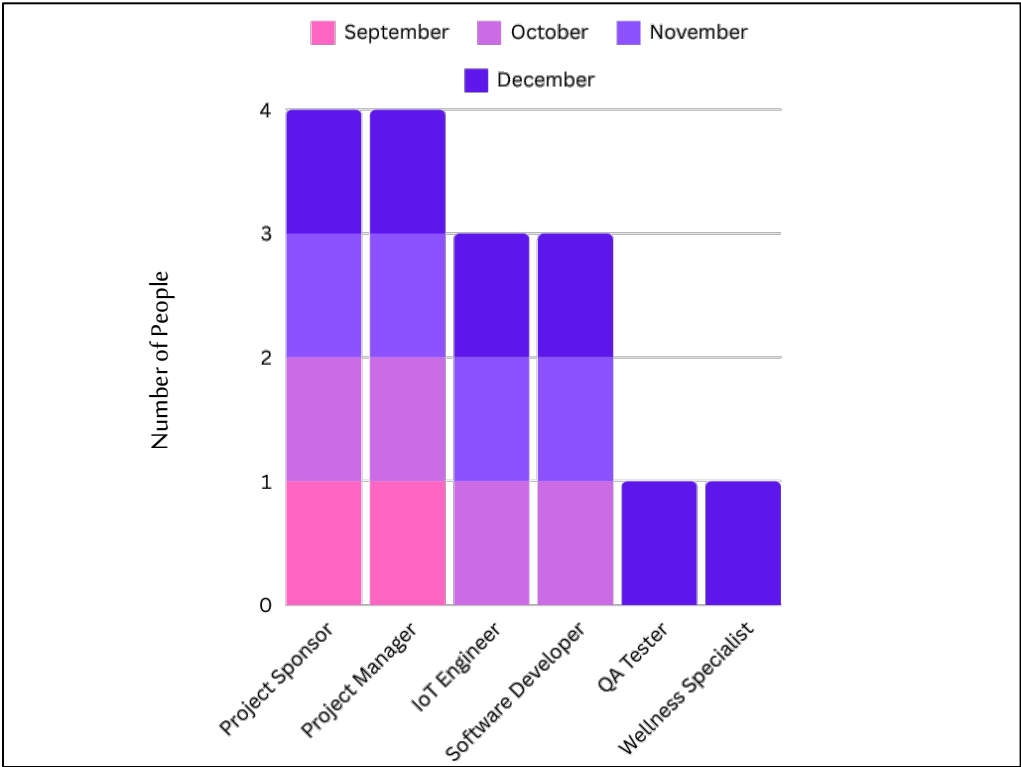| Resources	September	October	November	December	Total
Project Sponsor	1	1	1	1	4
Project Manager	1	1	1	1	4
IoT Engineer	0	1	1	1	3
Software Developer	0	1	1	1	3
QA Tester	0	0	0	1	1
Wellness Specialist	0	0	0	1	1

Table 3: Table of resources

Figure 2: Resource Histogram

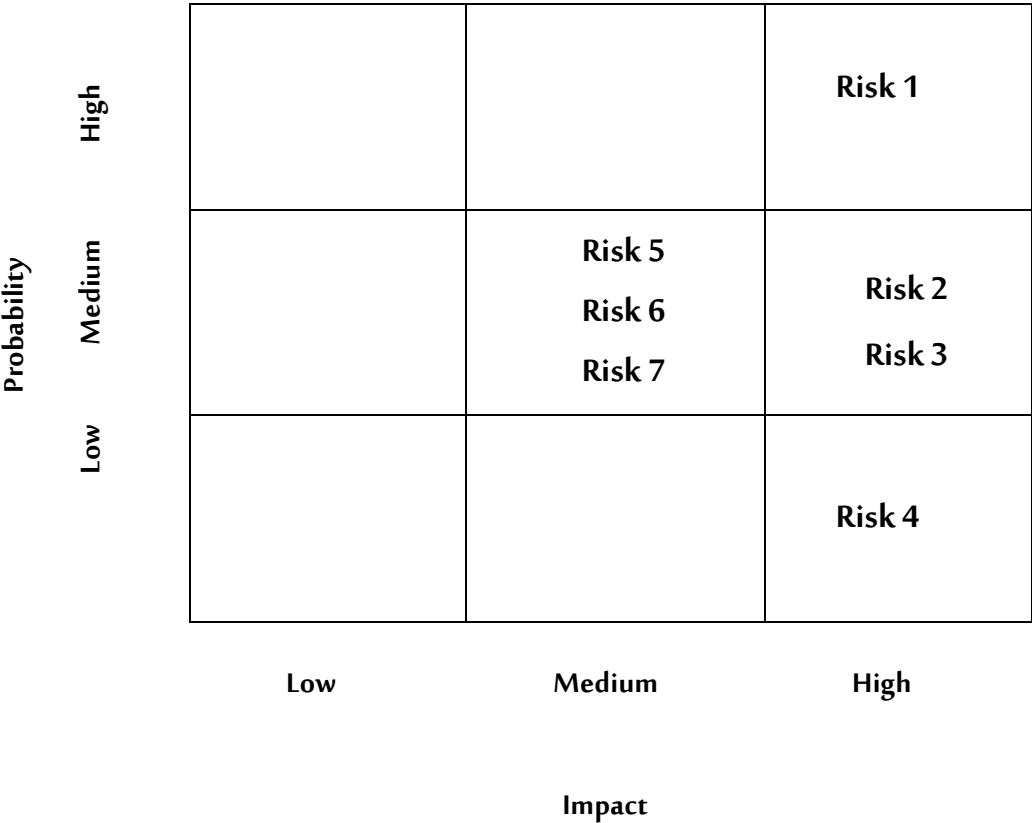# List of prioritized risk for : IoT Employee Wellness System

Prepared by ▰▰▰▰▰▰▰

Date: 4/12/2024

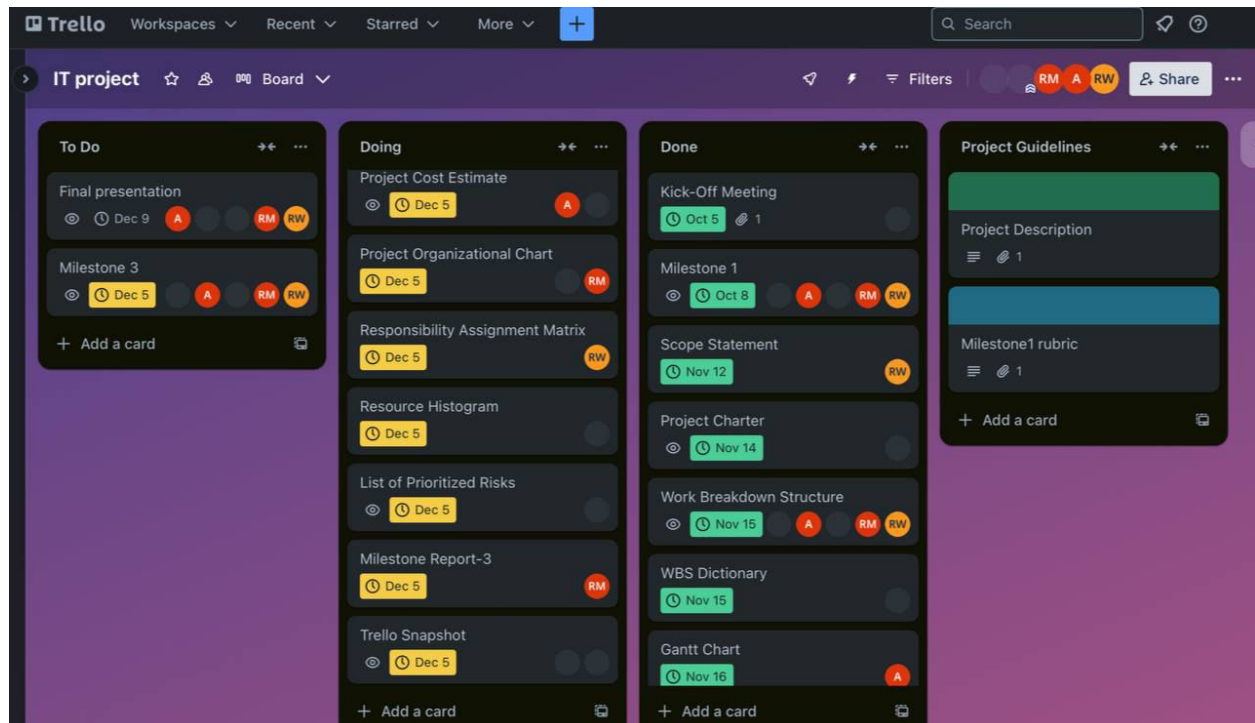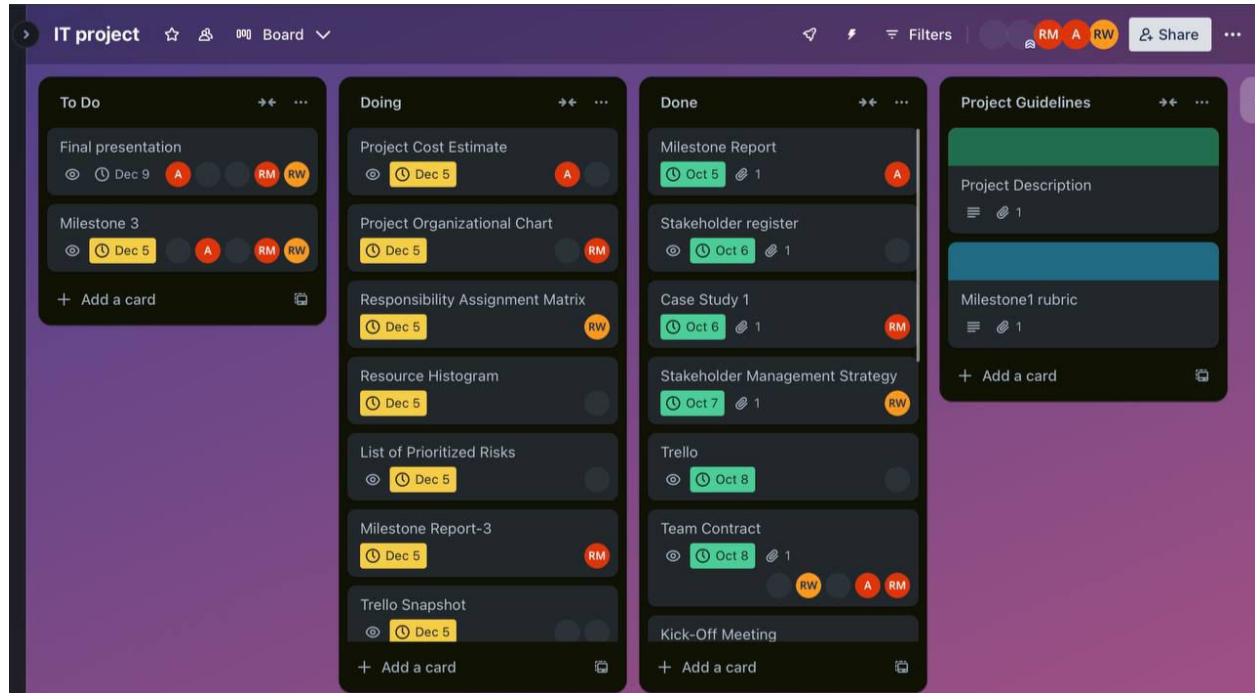| Ranking	Potential Risk
1	Data privacy: Unsecured handling of sensitive wellness data.
2	Scope creep: Expanding beyond initial requirements.
3	Technical integration: Challenges in IoT system compatibility.
4	Unauthorized access: Security breaches in the system.
5	Communication gaps: Inefficient stakeholder 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

Probability	Low	Medium	High
High			Risk 1
Medium		Risk 5 Risk 6 Risk 7	Risk 2 Risk 3
Low			Risk 4

Impact

Trello Snapchat

Prepared by ▬▬▬▬▬▬

Project Start Day: 5/12/2024

Milestone Report 3 for IOT wellness System

Prepared by:

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