جامعة الإمام عبدالرحمن بن فيصل
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
2210004542	Darah Al-Qahtani (Leader)
2220004295	Raghed Lisloum
2220005834	Albandari Alnassar
2220006486	Reef Alwarthan
2210002650	Rana Alaqeel

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: Albandari Alnassar

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: Darah Al-Qahtani
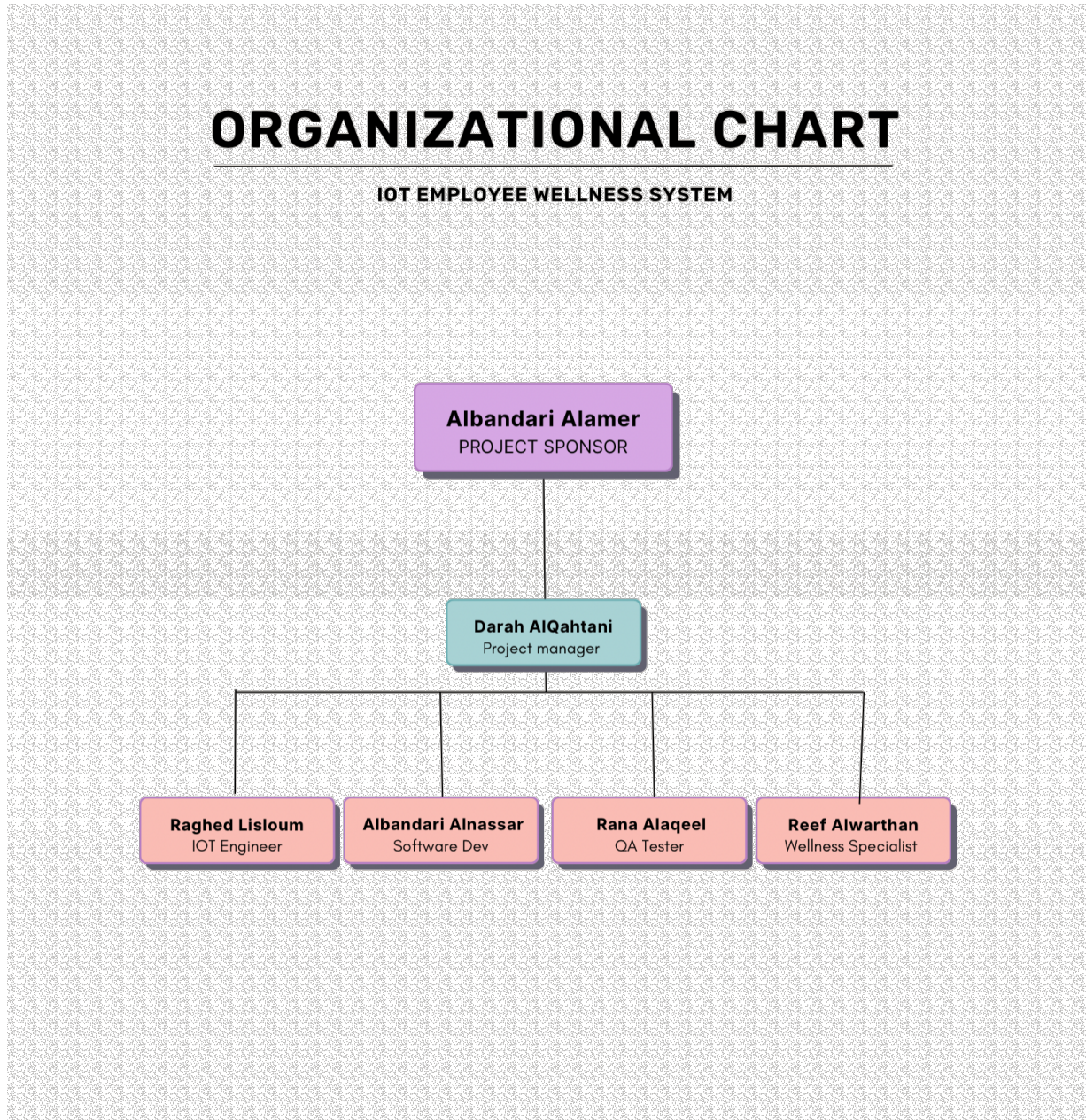
Project Start Day: 2/12/2024

ORGANIZATIONAL CHART
IOT EMPLOYEE WELLNESS SYSTEM

Albandari Alamer
PROJECT SPONSOR

Darah AlQahtani
Project manager

Raghed Lisloum
IOT Engineer

Albandari Alnassar
Software Dev

Rana Alaqeel
QA Tester

Reef Alwarthan
Wellness Specialist

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	-	-	-
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: Darah Al-Qahtani

Project Start Day: 4/12/2024

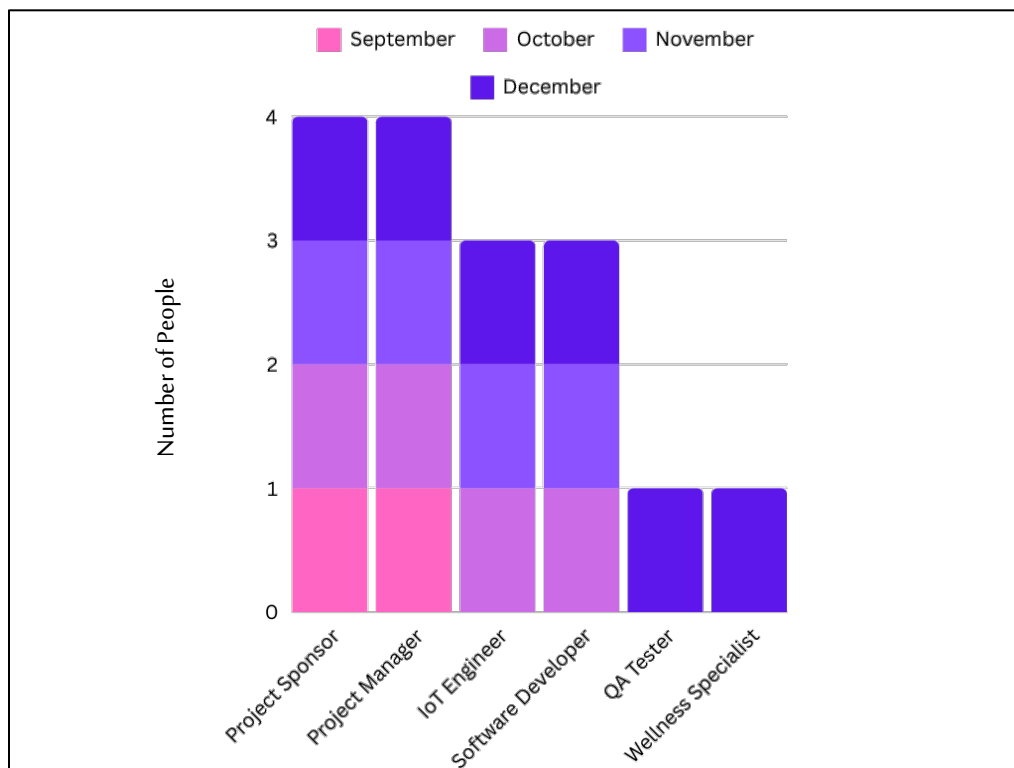| Resources	September	October	November	December	Total
Project Sponsor	1	1	1	1	4
Project Manager	1	1	1	1	4
IoT Engineer	0	1	1	1	3
Software Developer	0	1	1	1	3
QA Tester	0	0	0	1	1
Wellness Specialist	0	0	0	1	1

Table 3: Table of resources

Figure 2: Resource Histogram

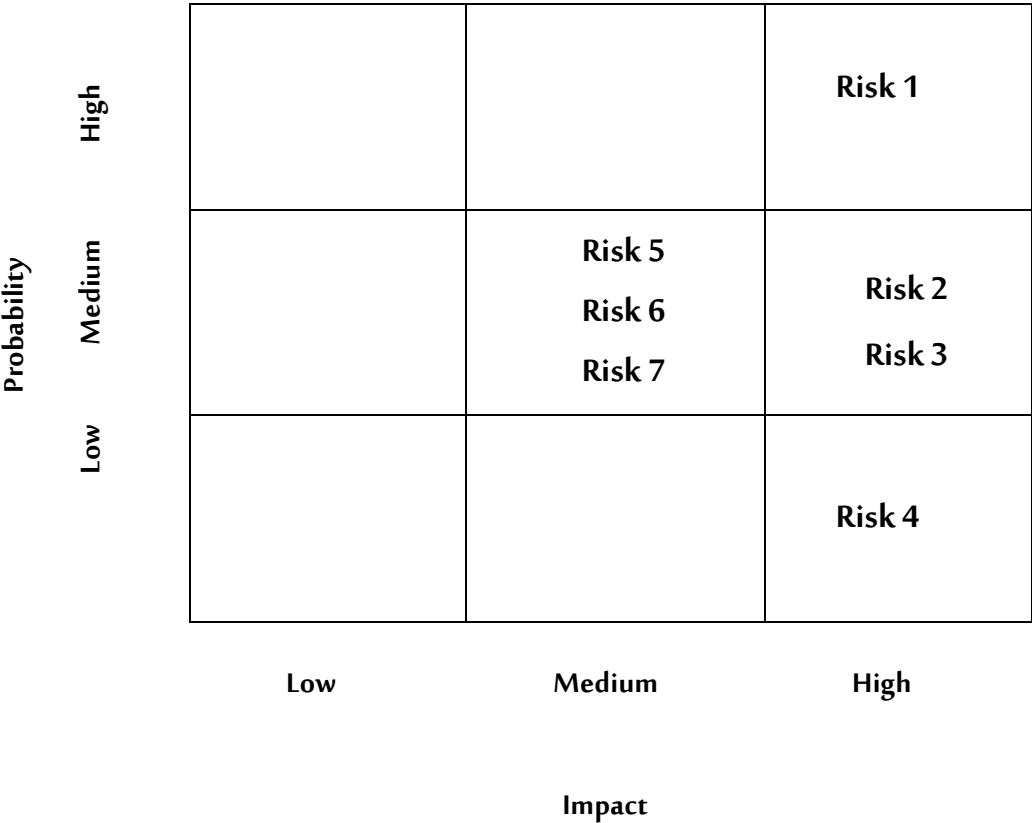# List of prioritized risk for : IoT Employee Wellness System

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
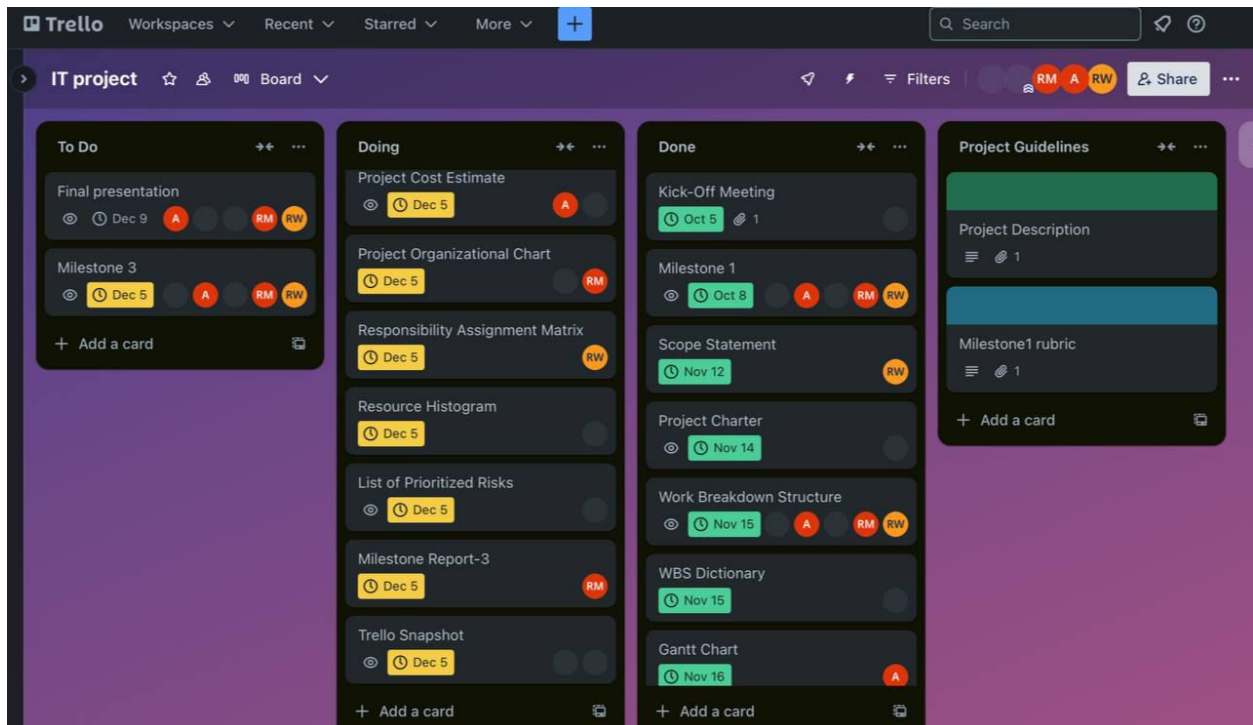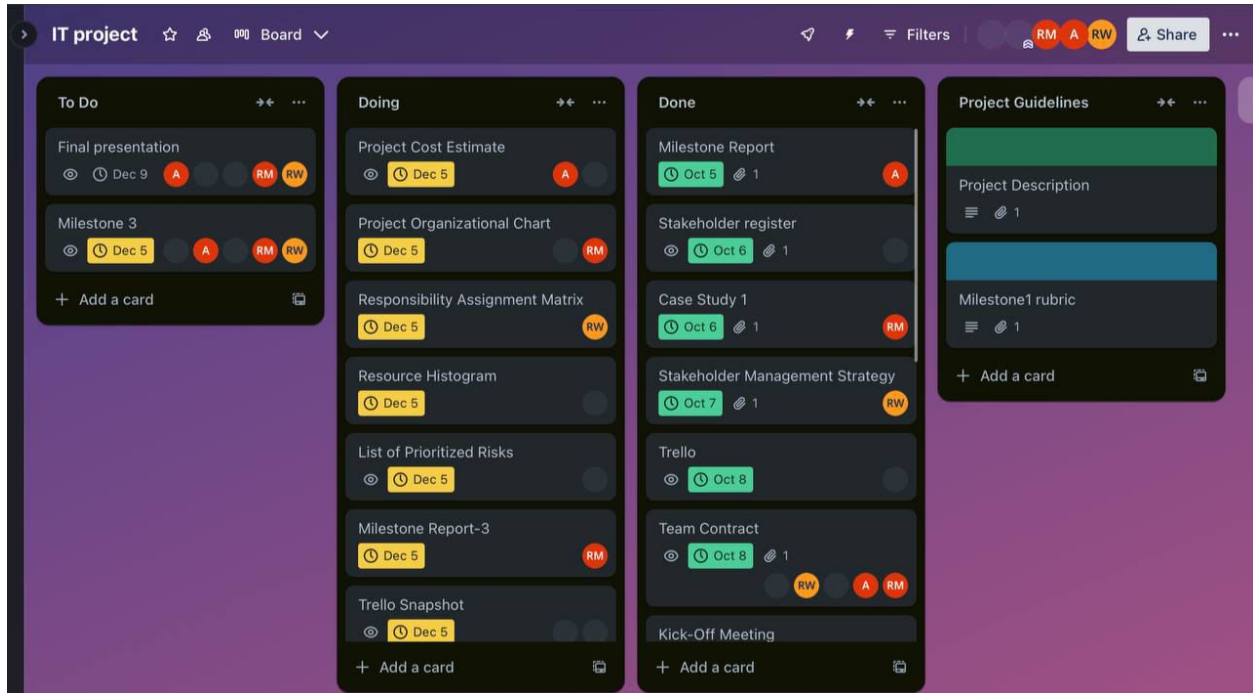
Figure 3: Risk and control matrix of the project

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

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