

# Requeue App

## CPIS-334



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## Introduction :

Requeue app you can simply add your name to the waiting list of the restaurant from anywhere. It specializes in organizing crowded restaurant and cafes queues to improve the restaurant experience by providing easy access to restaurants and food in restaurants

## Purpose of the project :

Through Requeue customers can check waiting time for any restaurant at any given location through their smartphone without leaving their homes .In addition to being able to enter a queue, select a seating area, determine how many chairs are needed, and check the status of the queue without having to physically go to the restaurant, customers can get an overview of the queue without physically going there.

As for restaurants, they are able to control the entire waiting process to enhance the experience of their customers .In addition ,through the use of our data analysis pages .Restaurants are able to analyze and address critical issues such as long queues, increased customer turnover, peak times and scheduling, and allocating staff and resources.

## Goals and objectives:

- Full control on the list through (Seat, cancel, pass, hold, edit and writing note)
- Find customer's details:(name – mobile number – number of chairs – photo)
- Add walk in customers.
- Track customers by location.
- Call & send notifications to customers.
- Control the Areas outside/inside (close – full - walk-in only).
- Management of restaurant's table floor.

## Project Charter

<b>Project Title:</b> Requeue App	
<b>Project Start Date:</b> 26-10-2022	<b>Project Finish Date:</b> 9-2-2023
<b>Budget Information:</b> The total expense is 102,114 SAR. The majority of the costs will be incurred in the creation of a Database. The bulk of work will be concentrated on the execution phases.	
<b>Project Manager:</b> Hnan Alghamdi, (966)52 123 2024, <a href="mailto:Hnan_alghamdi@gmail.com">Hnan_alghamdi@gmail.com</a>	
<b>Project Objectives:</b> Create and design a system that controls the list through (seat, cancel, pass, comment, edit and write a note) besides searching for details by (name - mobile number - number of chairs - photo), the most important feature of the system is to add and track customers through the site. Also, call and send notifications to clients.	
<b>Main Project Success Criteria:</b> To make the project successful, the manager should ensure that the project should meet. The following quadruple constraints : <ul style="list-style-type: none"><li>▪ Scope: Cover all the local restaurants .</li><li>▪ Time: Finish the project within the estimated date of</li><li>▪ Cost: Finish the project without overrunning the estimated budget .</li><li>▪ Quality: Gain customer trust and satisfaction.</li></ul>	
<b>Approach:</b> <ul style="list-style-type: none"><li>▪ Obtaining the approval of the Ministry of Commerce and starting the project and cooperating with it, so we can synchronize the commercial records of restaurants.</li><li>▪ Cooperation with local restaurants in Saudi Arabia and Kuwait</li><li>▪ Create a configurable user interface for the system and its mobile app.</li><li>▪ Create a database containing all the application user information.</li><li>▪ Apply the system to all restaurants</li></ul>	

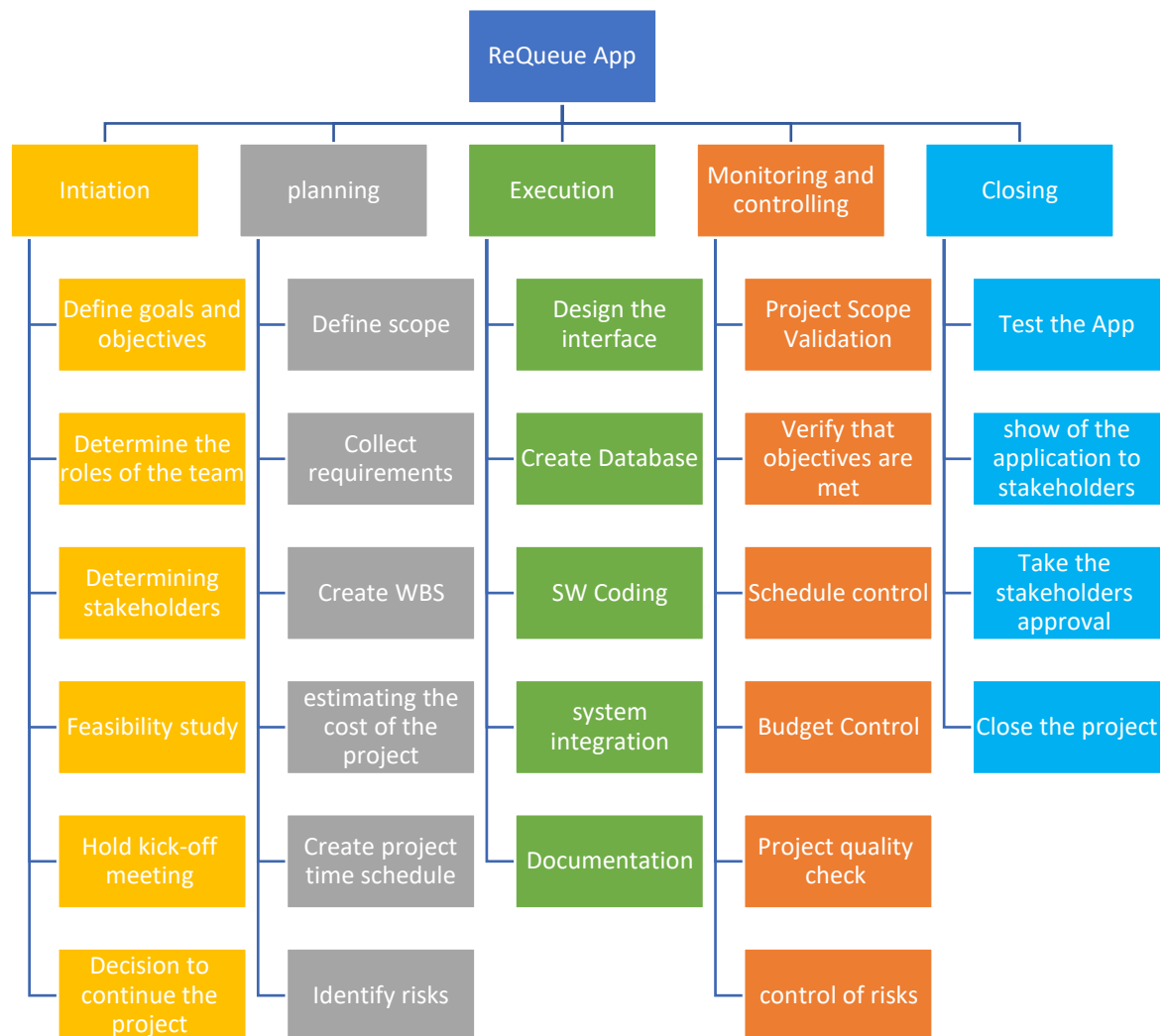
### Roles and Responsibilities:

Name	Role	Position	Contact Information
Hnan alghamdi	Management	Project manager	<a href="mailto:Hnan_alghamdi@gmail.com">Hnan_alghamdi@gmail.com</a>
Ahlam ahmad	Oversee the day-to-day operations	Deputy general manager	<a href="mailto:A_a@gmail.com">A_a@gmail.com</a>
Deemah Alghamdi	Analyzing, designing, and modifying the software	Software engineer	<a href="mailto:D_a@gmail.com">D_a@gmail.com</a>
Ghadeer Noh	Interface design	Interface Designer	<a href="mailto:G_n@gmail.com">G_n@gmail.com</a>
Nsreen Hujjatullah	Programming	Programmer	<a href="mailto:N_h@gmail.com">N_h@gmail.com</a>
Aisha alharbi	Database design and all DB-related roles	Database administrator	<a href="mailto:A_b@gmail.com">A_b@gmail.com</a>
Omar ahmad	Data and information collection and analysis	System analyst	<a href="mailto:O_a@gmail.com">O_a@gmail.com</a>
Ali turki	Risk management	Risk manager	<a href="mailto:A_t@gmail.com">A_t@gmail.com</a>

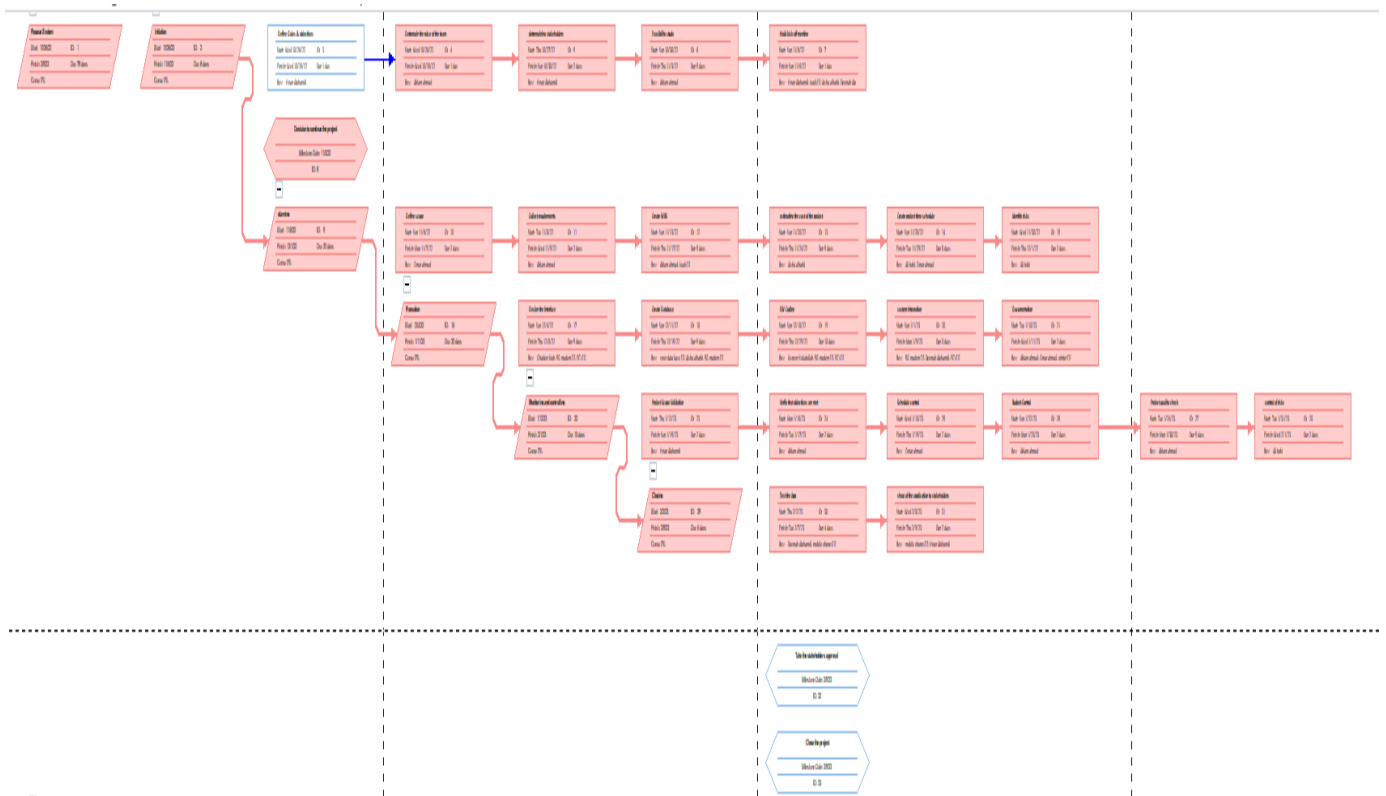
### Scope Statement:

This project will require a new database that includes the information of the restaurants that will be joined in the application to store the information. We will also need a database server.

## Work Breakdown Structure (WBS)



## Use of the precedence diagram method (PDM)



## Project Cost Estimation

	Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names	Remaining Cost
1	🚀	Queue System	78 days	Wed 10/26/22	Thu 2/9/23			91,714.00 ر.س.
2	📅	Initiation	8 days	Wed 10/26/22	Sun 11/6/22			13,392.00 ر.س.
9	🚀	Planning	20 days	Sun 11/6/22	Thu 12/1/22	2		31,136.00 ر.س.
16	🚀	Execution	30 days	Sun 12/4/22	Wed 1/11/23	9		24,482.00 ر.س.
22	🚀	Monitoring and controlling	15 days	Thu 1/12/23	Wed 2/1/23	16		16,224.00 ر.س.
29	🚀	Closing	6 days	Thu 2/2/23	Thu 2/9/23	22		6,480.00 ر.س.
34								
35	🚀	Weekly Meeting	78 days	Wed 10/26/22	Thu 2/9/23			0.00 ر.س.

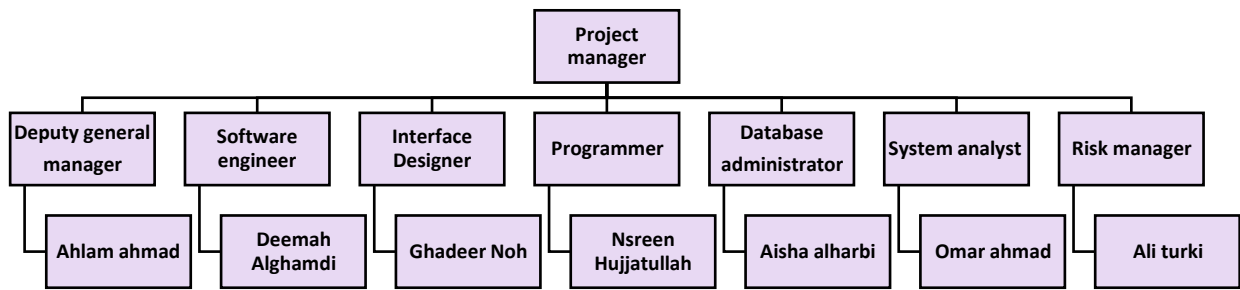
## Staffing procedure and plan:

- Design a job advertisement that contains all the requirements, including experience and skills.
- Post hiring advertisements on social media, newspapers, and Linked In.
- Check and evaluate applicants' CVs based on experience years and skills
- Interview the applicants.
- Based on the applicant's CV and interview check if the applicant is qualified for the job or needs more training.
- Sign job contracts for employees who achieved our standards.
- Introduce the project to employees and explain its requirements and what is required of each of them.

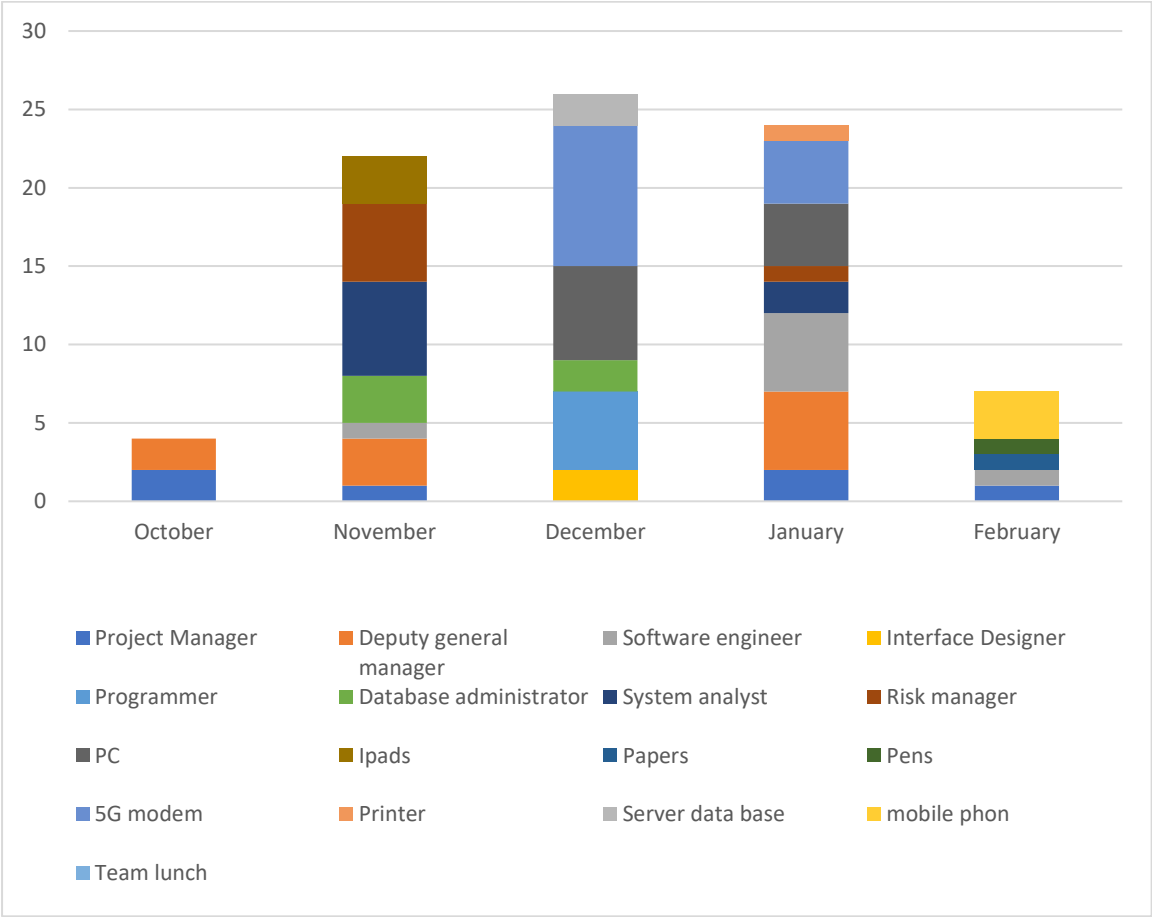


# Organizational chart and histogram (HR Management)

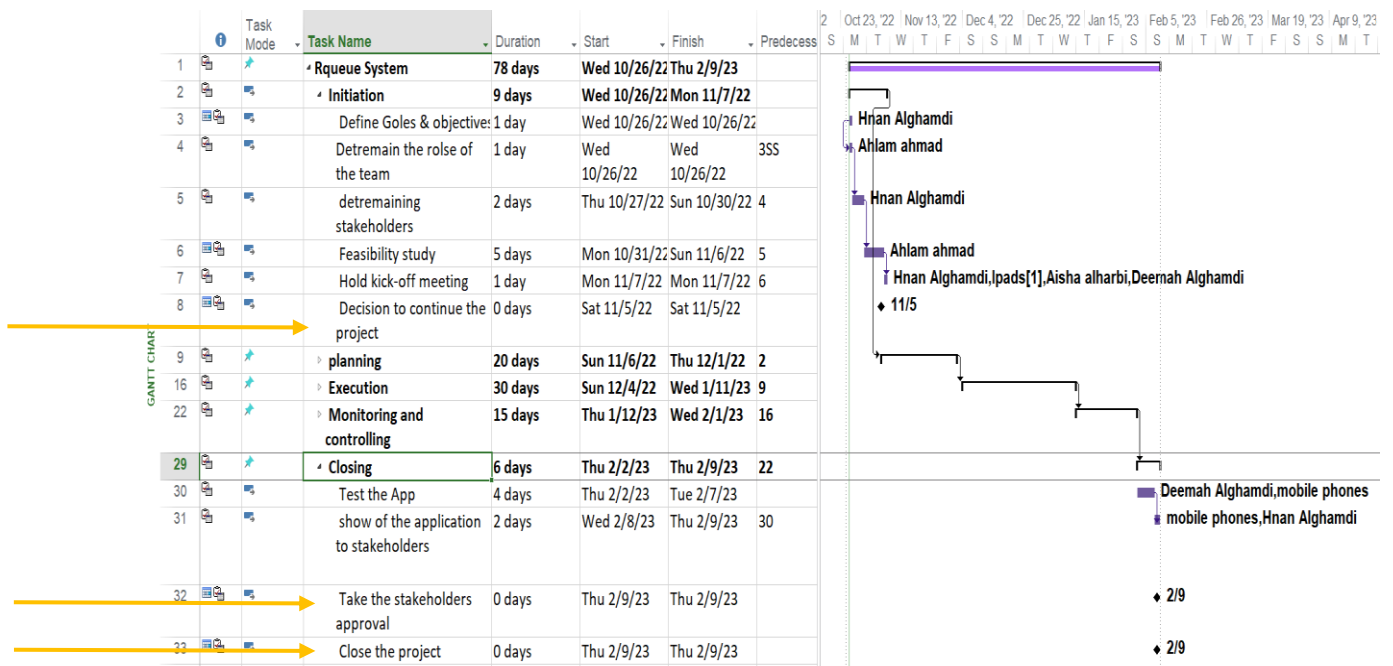
Organizational chart



Recourses Histogram



## Major project milestones



- Enter general project information, such as the project name and start date

finalProject Properties

? X

General Summary Statistics Contents Custom

Title: Requeue App

Subject: CPIS334

Author: Deemah,Nsreen,Ghadeer

Manager: Hnan alghamdi

Company:

Category:

Keywords:

Comments:

Hyperlink base:

Template:

☒ Save preview picture

OK Cancel

- Make calendar settings for your project based on your organization's work & nonwork days.

[illegible][illegible]

- Enter the names of summary tasks (Phases)

FILE	TASK	RESOURCE	REPORT	PROJECT	VIEW	FORMAT	
Subproject	Apps for Office	Project Information	Custom Links Between Fields	WBS Projects	Change Working Time	Calculate Project Baseline	Set Move Update Pr
Insert	Apps	Properties			Schedule	Status	
	Task Mode	Task Name	Duration	Start	Finish	Prede	
1		Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23		
2		Initiation	9 days	Wed 10/26/22	Mon 11/7/22		
9		planning	20 days	Sun 11/6/22	Thu 12/1/22		
16		Execution	30 days	Sun 12/4/22	Wed 1/11/23		
22		Monitoring and controlling	15 days	Thu 1/12/23	Wed 2/1/23		
29		Closing	6 days	Thu 2/2/23	Thu 2/9/23		

- Enter the names of subtasks
- You should set the tasks duration

	Task Mode	Task Name	Duration	Start	Finish	Predecessor	Resource Names
1		Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23		
2		Initiation	9 days	Wed 10/26/22	Mon 11/7/22		
3		Define Goles & objective:	1 day	Wed 10/26/22	Wed 10/26/22		Hnan Alghamdi
4		Detremain the rolse of the team	1 day	Wed 10/26/22	Wed 10/26/22	3SS	Ahlam ahmad
5		detremaining stakeholders	2 days	Thu 10/27/22	Sun 10/30/22	4	Hnan Alghamdi
6		Feasibility study	5 days	Mon 10/31/22	Sun 11/6/22	5	Ahlam ahmad
7		Hold kick-off meeting	1 day	Mon 11/7/22	Mon 11/7/22	6	Hnan Alghamdi
8		Decision to continue the project	0 days	Sat 11/5/22	Sat 11/5/22		
9		planning	20 days	Sun 11/6/22	Thu 12/1/22		
10		Define scope	2 days	Sun 11/6/22	Mon 11/7/22		Omar ahmad
11		Collect requirements	2 days	Tue 11/8/22	Wed 11/9/22	10	Ahlam ahmad
12		Create WBS	5 days	Sun 11/13/22	Thu 11/17/22	11FS+1 day	Ahlam ahmad,Ip
13		estimating the cost of the project	5 days	Sun 11/20/22	Thu 11/24/22	12	Aisha alharbi
14		Create project time schedule	8 days	Sun 11/20/22	Tue 11/29/22	13SS	Ali turki, Omar ahmad
15		Identify risks	2 days	Wed 11/30/22	Thu 12/1/22	14	Ali turki
16		Execution	30 days	Sun 12/4/22	Wed 1/11/23		
17		Design the interface	5 days	Sun 12/4/22	Thu 12/8/22		Ghadeer Noh,5G
18		Create Database	5 days	Sun 12/11/22	Thu 12/15/22	17	server data base [
19		SW Coding	10 days	Sun 12/18/22	Thu 12/29/22	18	NSreen Hujjatulla
20		system integration	8 days	Sun 1/1/23	Mon 1/9/23	19	5G modem [1],De
21		Documentation	2 days	Tue 1/10/23	Wed 1/11/23	20	Ahlam ahmad,Or
22		Monitoring and controlling	15 days	Thu 1/12/23	Wed 2/1/23		
23		Project Scope Validation	2 days	Thu 1/12/23	Sun 1/15/23		Hnan Alghamdi
24		Verify that objectives are met	2 days	Mon 1/16/23	Tue 1/17/23	23	Ahlam ahmad
25		Schedule control	2 days	Wed 1/18/23	Thu 1/19/23	24	Omar ahmad
26		Budget Control	2 days	Sun 1/22/23	Mon 1/23/23	25	Ahlam ahmad
27		Project quality check	5 days	Tue 1/24/23	Mon 1/30/23	26	Ahlam ahmad
28		control of risks	2 days	Tue 1/31/23	Wed 2/1/23	27	Ali turki
29		Closing	6 days	Thu 2/2/23	Thu 2/9/23		
30		Test the App	4 days	Thu 2/2/23	Tue 2/7/23		Deemah Alghame
31		show of the application to stakeholders	2 days	Wed 2/8/23	Thu 2/9/23	30	mobile phones, Hnan Alghamdi
32		Take the stakeholders approval	0 days	Thu 2/9/23	Thu 2/9/23		Hnan Alghamdi, papers [0],pens [
33		Close the project	0 days	Thu 2/9/23	Thu 2/9/23		

- You should configure the relationships between subtasks (at least 2 types)

## ■ SS

	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1		Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23		
2		Initiation	9 days	Wed 10/26/22	Mon 11/7/22		
3		Define Goals & objectives	1 day	Wed 10/26/22	Wed 10/26/22		Hnan Alghamdi
4		Detremain the rolse of the team	1 day	Wed 10/26/22	Wed 10/26/22	3SS	Ahlam ahmad

## ■ FS

9		planning	20 days	Sun 11/6/22	Thu 12/1/22		
10		Define scope	2 days	Sun 11/6/22	Mon 11/7/22		Omar ahmad
11		Collect requirements	2 days	Tue 11/8/22	Wed 11/9/22	10	Ahlam ahmad
12		Create WBS	5 days	Sun 11/13/22	Thu 11/17/22	11FS+1 day	Ahlam ahmad,lp
13		estimating the cost of the project	5 days	Sun 11/20/22	Thu 11/24/22	12	Aisha alharbi

- You should configure the relationships between the summary tasks

	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1		Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23		
2		Initiation	9 days	Wed 10/26/22	Mon 11/7/22		
9		planning	20 days	Sun 11/6/22	Thu 12/1/22	2	
16		Execution	30 days	Sun 12/4/22	Wed 1/11/23	9	
22		Monitoring and controlling	15 days	Thu 1/12/23	Wed 2/1/23	16	
29		Closing	6 days	Thu 2/2/23	Thu 2/9/23	22	

- Project should contain some Milestones (at least 2 milestones).

	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1		Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23		
2		Initiation	9 days	Wed 10/26/22	Mon 11/7/22		
3		Define Goals & objectives	1 day	Wed 10/26/22	Wed 10/26/22		Hnan Alghamdi
4		Detremain the rolse of the team	1 day	Wed 10/26/22	Wed 10/26/22	3SS	Ahlam ahmad
5		detremaining stakeholders	2 days	Thu 10/27/22	Sun 10/30/22	4	Hnan Alghamdi
6		Feasibility study	5 days	Mon 10/31/22	Sun 11/6/22	5	Ahlam ahmad
7		Hold kick-off meeting	1 day	Mon 11/7/22	Mon 11/7/22	6	Hnan Alghamdi,lpads[1],Aisha alharbi,Deemah Alghamdi
8		Decision to continue the project	0 days	Sat 11/5/22	Sat 11/5/22	11/5	
9		planning	20 days	Sun 11/6/22	Thu 12/1/22	2	
16		Execution	30 days	Sun 12/4/22	Wed 1/11/23	9	
22		Monitoring and controlling	15 days	Thu 1/12/23	Wed 2/1/23	16	
29		Closing	6 days	Thu 2/2/23	Thu 2/9/23	22	
30		Test the App	4 days	Thu 2/2/23	Tue 2/7/23		Deemah Alghamdi,mobile phones
31		show of the application to stakeholders	2 days	Wed 2/8/23	Thu 2/9/23	30	mobile phones,Hnan Alghamdi
32		Take the stakeholders approval	0 days	Thu 2/9/23	Thu 2/9/23	31	2/9
33		Close the project	0 days	Thu 2/9/23	Thu 2/9/23	32	2/9

- Project should contain a recurring task that should be repeated once a week on Monday until the finish date.

- Project should contain all 3 types (work, material and cost) of resources and enter all their information in resource sheet.

	Resource Name	Type	Material Label	Init	Group	Max. Units	Std. Rate	Ovt. Rate	Cost/Use	Accrue At
1	Hnan Alghamdi	Work		HA	Project Manager	100%	145.00 ر.س./hr	150.00 ر.س./hr	0.00 ر.س.	Prorated
2	Ahlam ahmad	Work		A	Deputy general manage	100%	140.00 ر.س./hr	150.00 ر.س./hr	0.00 ر.س.	Prorated
3	Deemah Alghamdi	Work		D	Software engineer	100%	130.00 ر.س./hr	0.00 ر.س./hr	0.00 ر.س.	Prorated
4	Ghadeer Noh	Work		G	Interface Designer	100%	120.00 ر.س./hr	125.00 ر.س./hr	0.00 ر.س.	Prorated
5	Nsreen Hujjatullah	Work		N	Programmer	100%	125.00 ر.س./hr	130.00 ر.س./hr	0.00 ر.س.	Prorated
6	Aisha alharbi	Work		A	Database administrator	100%	120.00 ر.س./hr	125.00 ر.س./hr	0.00 ر.س.	Prorated
7	Omar ahmad	Work		O	System analyst	100%	115.00 ر.س./hr	120.00 ر.س./hr	0.00 ر.س.	Prorated
8	Ali turki	Work		A	Risk manager	100%	115.00 ر.س./hr	120.00 ر.س./hr	0.00 ر.س.	Prorated
9	PC's	Material		P	Equipment		0.00 ر.س.		0.00 ر.س.	Prorated
10	Ipads	Material		I	Equipment		0.00 ر.س.		0.00 ر.س.	Prorated
11	papers	Material		p	tool		0.00 ر.س.		0.00 ر.س.	Prorated
12	pens	Material		p	tool		0.00 ر.س.		0.00 ر.س.	Prorated
13	5G modem	Material		S	tool		500.00 ر.س.		0.00 ر.س.	Prorated
14	printer	Material		p	tool		450.00 ر.س.		0.00 ر.س.	Prorated
15	srver data base	Material		s	Equipment		0.00 ر.س.		0.00 ر.س.	Prorated
16	mobile phones	Material		m	Equipment		0.00 ر.س.		0.00 ر.س.	Prorated
17	Team's lunch	Cost		T						Prorated

- At least one task has semi-flexible constraint, and another task has inflexible constraint.

- Set type of one task as fixed duration and other task as fixed work.

The screenshot shows the 'Task Information' dialog box for a task named 'Create Database'. The 'General' tab is selected. The 'Duration' is set to '5 days'. The 'Task type' is set to 'Fixed Work'. The 'Calendar' is set to 'PC'. The 'WBS code' is '1.3.2'. The 'Earned value method' is '% Complete'. The 'Constraint type' is 'As Soon As Possible' and the 'Constraint date' is 'NA'. The 'Deadline' is also 'NA'. The 'Effort driven' checkbox is checked, and the 'Scheduling ignores resource calendars' checkbox is unchecked. The 'Mark task as milestone' checkbox is unchecked. The 'OK' button is highlighted.

The screenshot shows the 'Task Information' dialog box for a task named 'Test the App'. The 'General' tab is selected. The 'Duration' is set to '4 days'. The 'Task type' is set to 'Fixed Duration'. The 'Calendar' is set to 'PC'. The 'WBS code' is '1.5.1'. The 'Earned value method' is '% Complete'. The 'Constraint type' is 'As Soon As Possible' and the 'Constraint date' is 'NA'. The 'Deadline' is also 'NA'. The 'Effort driven' checkbox is unchecked, and the 'Scheduling ignores resource calendars' checkbox is unchecked. The 'Mark task as milestone' checkbox is unchecked. The 'OK' button is highlighted.

- At least one person of your resource has a multiple pay rate depend on task and you should attach these different pay rates to his tasks.

Resource Name	Type
Hnan Alghamdi	Work
Ahlan ahmad	Work
Deemah Alghamdi	Work
Ghadeer Noh	Work
Nsreen Hujjatullah	Work
Aisha alharbi	Work
Omar ahmad	Work
Ali turki	Work
PC's	Material
Ipads	Material
papers	Material
pens	Material
5G modem	Material
printer	Material
srver data base	Material
mobile phones	Work
Team's lunch	Cost

Resource Information

General Costs Notes Custom Fields

Resource Name: Nsreen Hujjatullah

Cost rate tables

For rates, enter a value or a percentage increase or decrease from the previous rate. For instance, if a resource's Per Use Cost is reduced by 20%, type -20%.

Effective Date	Standard Rate	Overtime Rate	Per Use Cost
--	125.00 ر.س./hr	130.00 ر.س./hr	0.00 ر.س.

Cost accrual: Prorated

Help Details... OK Cancel

Resource Name	Type	Material Label
Hnan Alghamdi	Work	
Ahlan ahmad	Work	
Deemah Alghamdi	Work	
Ghadeer Noh	Work	
Nsreen Hujjatullah	Work	
Aisha alharbi	Work	
Omar ahmad	Work	
Ali turki	Work	
PC's	Material	
Ipads	Material	
papers	Material	
pens	Material	
5G modem	Material	
printer	Material	
srver data base	Material	
mobile phones	Material	
Team's lunch	Cost	

Resource Information

General Costs Notes Custom Fields

Resource Name: Nsreen Hujjatullah

Cost rate tables

For rates, enter a value or a percentage increase or decrease from the previous rate. For instance, if a resource's Per Use Cost is reduced by 20%, type -20%.

Effective Date	Standard Rate	Overtime Rate	Per Use Cost
--	130.00 ر.س./hr	132.00 ر.س./hr	0.00 ر.س.

Cost accrual: Prorated

Help Details... OK Cancel

Resource Name	Work	Add New Column
Create WBS	40 hrs	
Documentation	16 hrs	
Verify that object	16 hrs	
Budget Control	16 hrs	
Project quality ch	40 hrs	
Deemah Alghamdi	104 hrs	
Hold kick-off mee	8 hrs	
system integratic	64 hrs	
Test the App	32 hrs	
Ghadeer Noh	40 hrs	
Design the interf	40 hrs	
Nsreen Hujjatullah	80 hrs	
SW Coding	80 hrs	
Aisha alharbi	88 hrs	
Hold kick-off mee	8 hrs	
estimating the co	40 hrs	
Create Database	40 hrs	
Omar ahmad	112 hrs	
Define scope	16 hrs	
Create project tir	64 hrs	

Assignment Information

General Tracking Notes

Task: SW Coding

Resource: Nsreen Hujjatullah

Work: 80 hrs Units: 100%

Work contour: Flat

Start: Sun 12/18/22 Booking type: Committed

Finish: Thu 12/29/22 Cost: 10,000.00 ر.س.

Cost rate table: B Assignment Owner:

OK Cancel



- At least one person resource has a multiple pay rate depend on time.

Resource Information

General Costs Notes Custom Fields

Resource Name: Ahlam ahmad

Cost rate tables

For rates, enter a value or a percentage increase or decrease from the previous rate. For instance, if a resource's Per Use Cost is reduced by 20%, type -20%.

Effective Date	Standard Rate	Overtime Rate	Per Use Cost
--	140.00 ر.س./hr	150.00 ر.س./hr	0.00 ر.س.
Mon 10/31/22	141.00 ر.س./hr	145.00 ر.س./hr	0.00 ر.س.
Sun 11/13/22	142.00 ر.س./hr	145.00 ر.س./hr	0.00 ر.س.

Cost accrual: Prorated

Help Details... OK Cancel

- At least one task has a lead, and another task has a lag time.

Task Information

General Predecessors Resources Advanced Notes Custom Fields

Name: Create WBS Duration: 5 days ☐ Estimated

Predecessors:

ID	Task Name	Type	Lag
11	Collect requirements	Finish-to-Start (FS)	1 day

Help OK Cancel

Task Information

General Predecessors Resources Advanced Notes Custom Fields

Name: Feasibility study Duration: 5 days ☐ Estimated

Predecessors:

ID	Task Name	Type	Lag
5	determining stakeholders	Finish-to-Start (FS)	-1 day

Help OK Cancel

## References

*Home Page - Requeue App.* (n.d.). Requeue.net. Retrieved October 29, 2022, from <https://requeue.net/>