

Requeue App

Prepared By:

Deemah Ghadeer Nsreen Hujjatullah Asadullah

Prepared For:

Dr. Aisha Alsobhi

CPIS-334

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.



Purpose of the project

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, call & send notifications to customers and track customers by location



Control the
Areas
outside/insid
e (close – full
- walk-in
only).



Management of restaurant's table floor.

Project Charter

Project Title: Requeue App

Project Start Date: 26-10-2022

Project Finish Date: 9-2-2023

Budget Information: 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.

Project Manager:

Hnan Alghamdi, (966)52 123 2024, Hnan_alghamdi@gmail.com

Project Objectives:

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.

Main Project Success Criteria

To make the project successful, the manager should ensure that the project should Mets. The following quadruple constraints:

- Scope: Cover all the local restaurants.
- Time: Finish the project within the estimated date of
- Cost: Finish the project without overrunning the estimated budget.
- Quality: Gain customer trust and satisfaction.

Approach:

- 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.
- Cooperation with local restaurants in Saudi Arabia and Kuwait
- Create a configurable user interface for the system and its mobile app.
- Create a database containing all the application user information
- Apply the system to all restaurants

Roles and Responsibilities

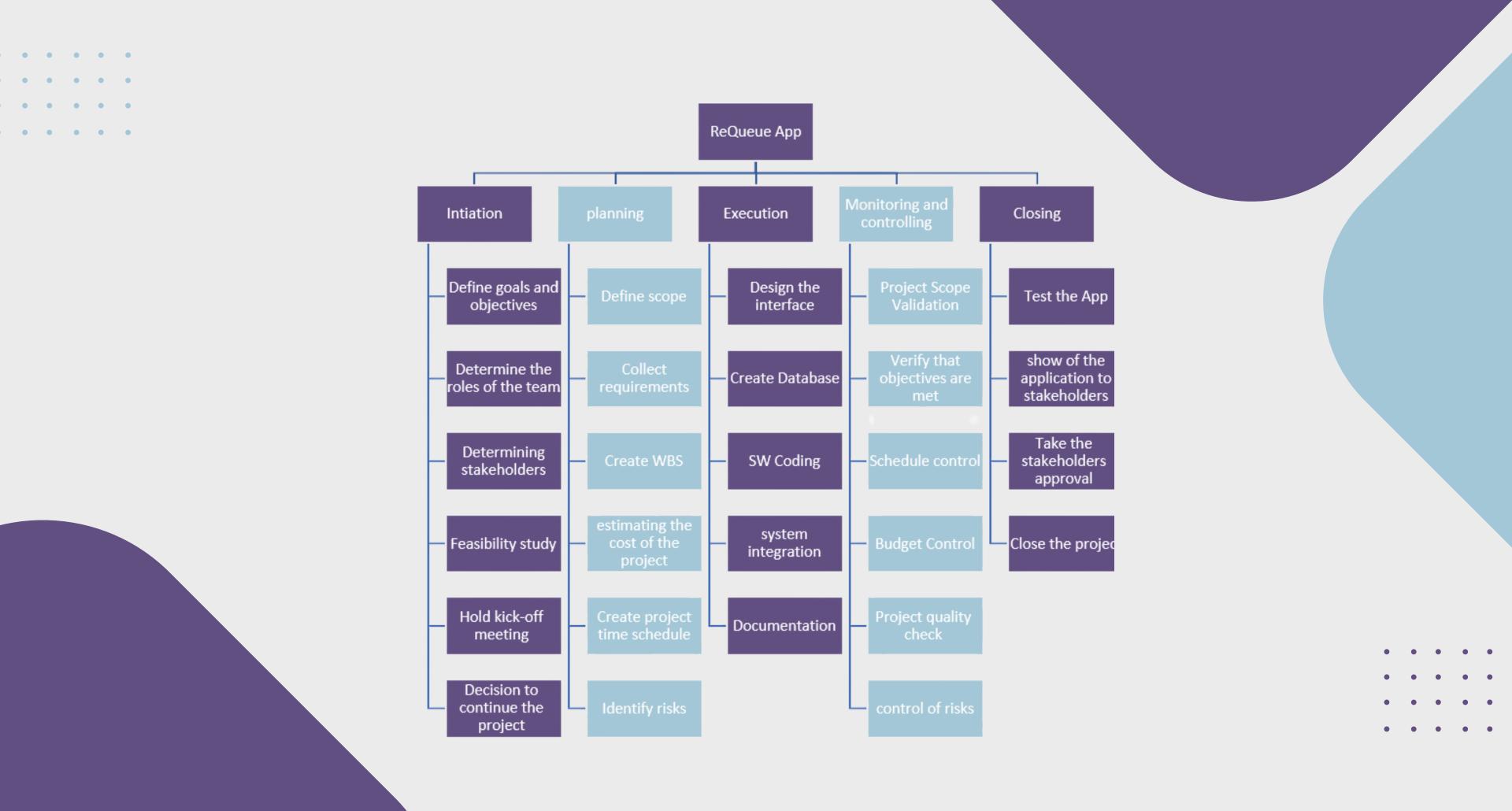
Name	Role	Position
Hnan alghamdi	Management	Project manager
Ahlam ahmad	Oversee the day-to-day operations	Deputy general manager
Deemah Alghamdi	Analyze, design, and modify the software	Software engineer
Ghadeer Nooh	Interface design	Interface Designer
Nsreen Hujjatullah	Programmer	Programmer
Aisha alharbi	Database design and all DB-related roles	Database administrator
Omar ahmad	Data collection and analysis	System analyst
Ali turki	Risk management	Risk management

Scope Statement:

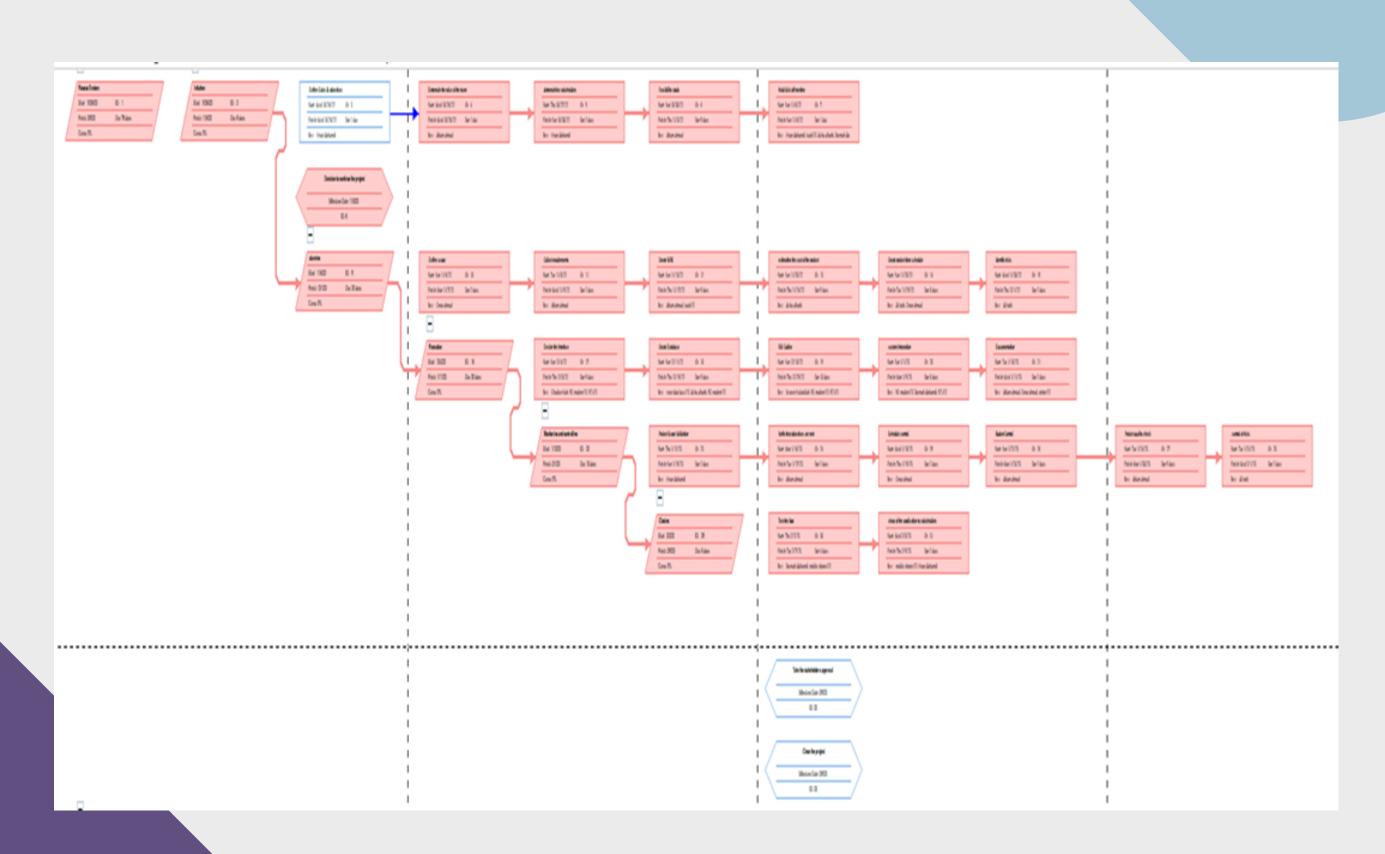
This project will require a new database that includes the information of the restaurants that will be joined in the application to store the information. We will also need a database server.



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	*	⁴ Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23			ر.س. 91,714.00
2	- 5	▶ Initiation	8 days	Wed 10/26/22	Sun 11/6/22			ر.س. 13,392.00
9	*	▶ planning	20 days	Sun 11/6/22	Thu 12/1/22	2		ر.س. 31,136.00
16	*	Execution	30 days	Sun 12/4/22	Wed 1/11/23	9		ر.س. 24,482.00
22	*	Monitoring and controlling	15 days	Thu 1/12/23	Wed 2/1/23	16		ر.س. 16,224.00
29	*	Closing	6 days	Thu 2/2/23	Thu 2/9/23	22		ر.س. 6,480.00
34								
35	*	▶ Weekly Meeting	78 days	Wed 10/26/22	Thu 2/9/23			ر.س. 0.00

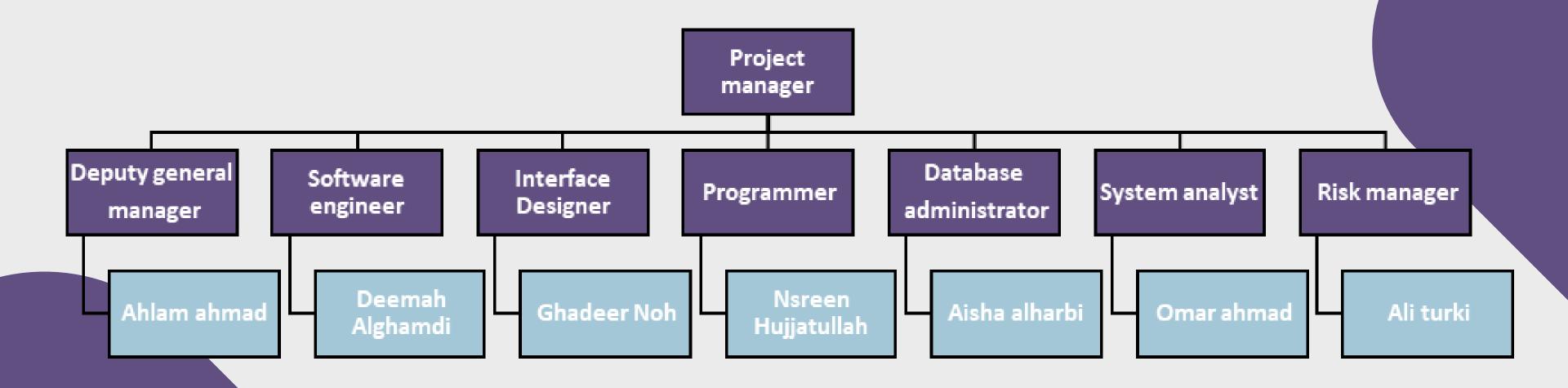
Staffing procedure and plan

- 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.

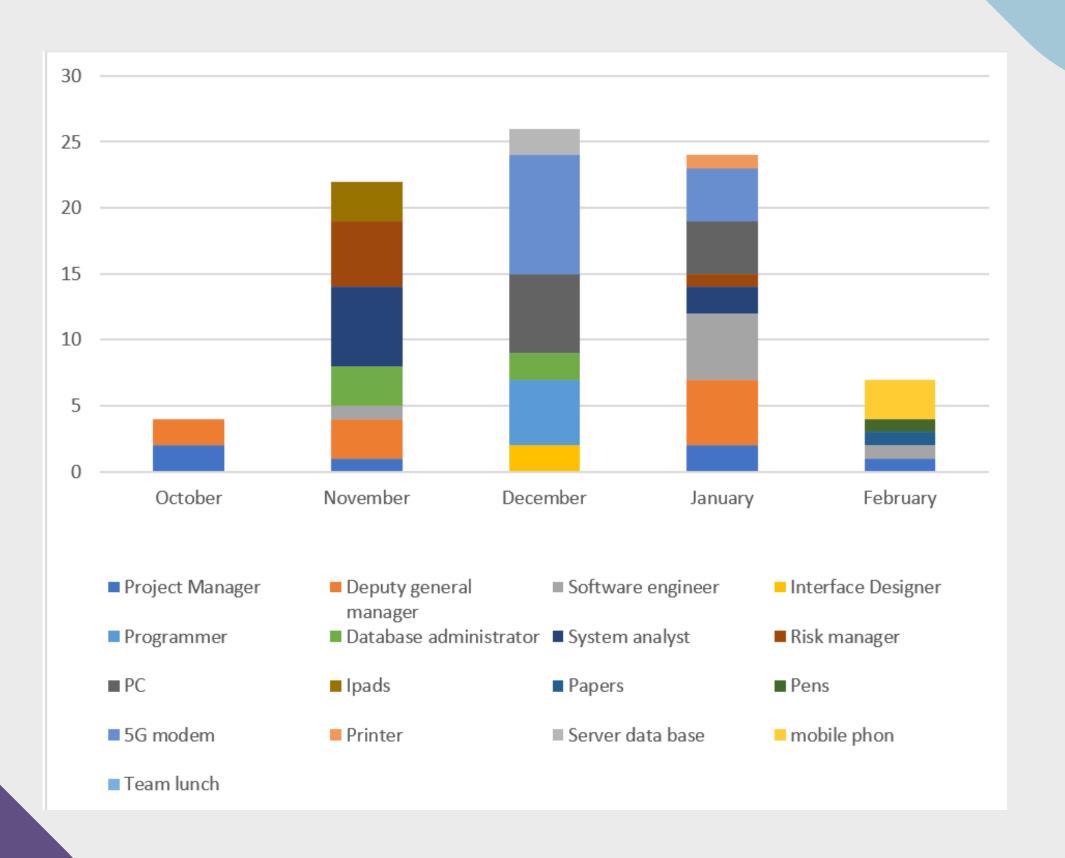
Project Cost Estimation

	Task Mode →	Task Name	Duration +	Start +	Finish +	Predecessor -	Resource Names +	Remaining Cost +
1	×	4 Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23			ر.س. 91,714.00
2	- 5	→ Initiation	8 days	Wed 10/26/22	Sun 11/6/22			ر.س. 13,392.00
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35	*	▶ Weekly Meeting	78 days	Wed 10/26/22	Thu 2/9/23			ر.س. 0.00

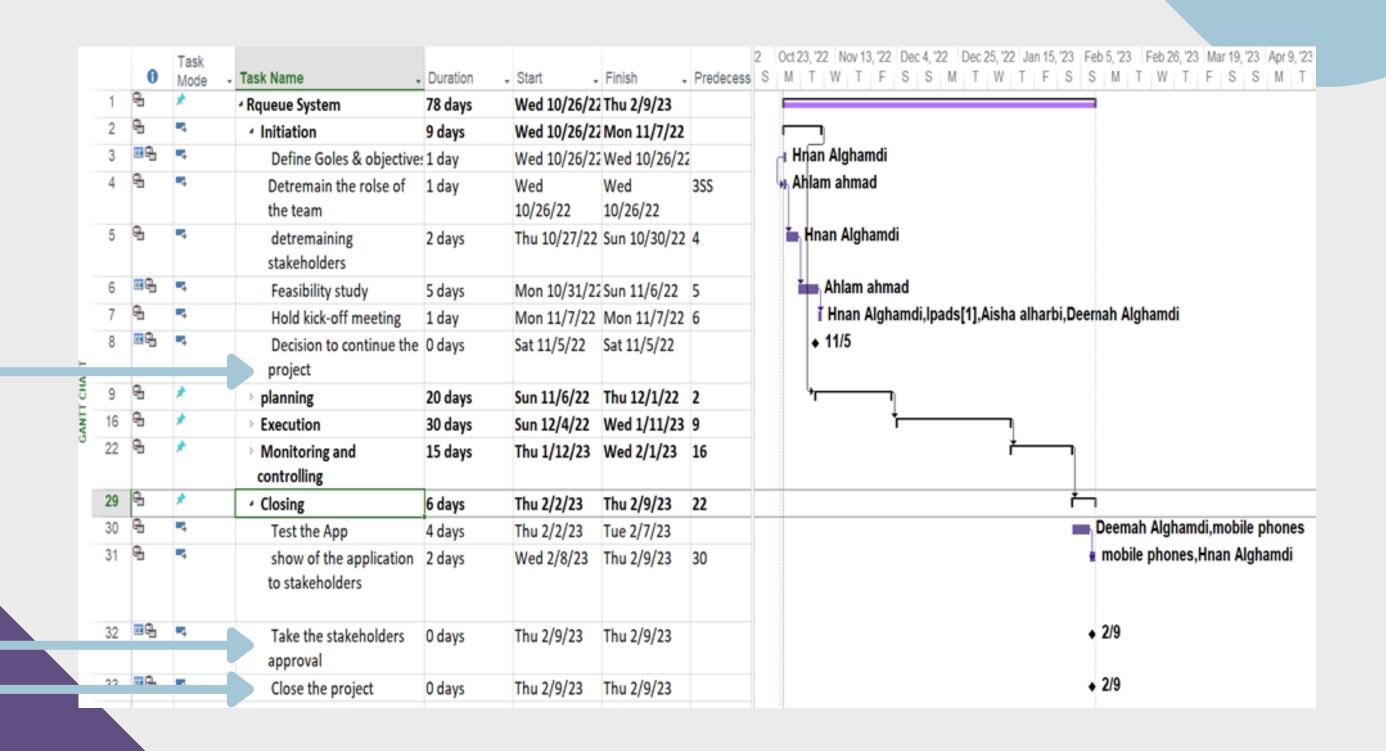
Organizational chart and histogram (HR Management)



Recourses Histogram

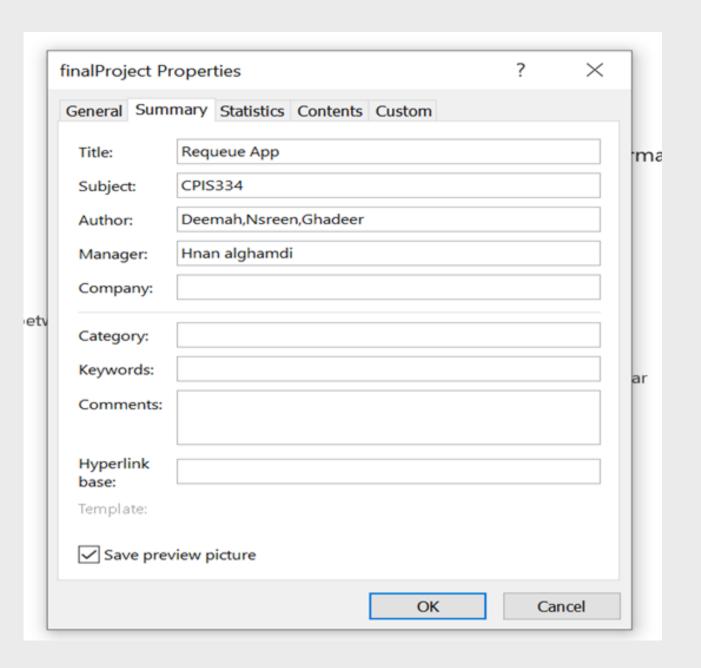


Major project milestones



Detailed project schedule

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



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

							-		(Create <u>N</u>	ew Calendar	
endar 'PC" is a base calendar.												
end:	Click	on a		see i		rking	time	s: Working	g times for	January	5, 2023:	
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Working	1	2	3	4	5	6	7		00 PM to 5:			
Nonworking	8	9	10	11	12	13	14					
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Edited working hours	15	16	17	18	19	20	21	Def	ault work w	eek on	calendar 'PC".	
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Enter the names of summary tasks (Phases)

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Subprojec		ps for	Proj			inks Between Projects	WBS	Change Working Time	Calculat		Move Project	■ Up	odate Pr
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1	4	*		₄ Rq	ueue Syst	tem		78 days	Wed 1	0/26/22	Thu 2/9/	23	
2	4	=,		Þ	Initiation			9 days	Wed 1	0/26/22	Mon 11/	7/22	,
9	4	*		Þ	planning			20 days	Sun 11	/6/22	Thu 12/1	L /22	
16	4	*		Þ	Execution	l		30 days	Sun 12	/4/22	Wed 1/1	1/23	
22	4	*			Monitorir controlling	-		15 days	Thu 1/	12/23	Wed 2/1	/23	
29	4	*		Þ	Closing			6 days	Thu 2/	2/23	Thu 2/9/	23	

Enter the names of subtasks, you should set the tasks duration

		0	Task Mode	Task Name	Duration	- Start -	Finish .	Predecessor +	Resource Names
	1	-	*	⁴ Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23		
	2	9	=5	⁴ Initiation	9 days	Wed 10/26/22	Mon 11/7/22		
	3	□ ⊕	=4	Define Goles & objectives	1 day		Wed 10/26/22		Hnan Alghamdi
	4	<u>-</u>	=	Detremain the rolse of the team	1 day	Wed 10/26/22	Wed 10/26/22	3SS	Ahlam ahmad
	5	<u>-</u>	•	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	9	=5	Hold kick-off meeting	1 day	Mon 11/7/22	Mon 11/7/22	6	Hnan Alghamdi,I
ART	8	<u></u>	7	Decision to continue the project	0 days	Sat 11/5/22	Sat 11/5/22		
SANTT CHART	9	9	*	→ planning	20 days	Sun 11/6/22	Thu 12/1/22		
SAM	10	@-	=5	Define scope	2 days	Sun 11/6/22	Mon 11/7/22		Omar ahmad
	11	9	=5	Collect requirements	2 days		Wed 11/9/22		Ahlam ahmad
	12	9	===	Create WBS	5 days		Thu 11/17/22		Ahlam ahmad,Ipa
	13	<u>e</u>	-	estimating the cost of the project	5 days	Sun 11/20/22	Thu 11/24/22	12	Aisha alharbi
	14	<u>e</u>	=3	Create project time schedule	8 days	Sun 11/20/22	Tue 11/29/22	13SS	Ali turki, Omar ahmad
	15	-	=3	Identify risks	2 days	Wed 11/30/22	Thu 12/1/22	14	Ali turki
	16	8	*	 Execution 	30 days	Sun 12/4/22	Wed 1/11/23		
	17	<u></u>	=5	Design the interface	5 days	Sun 12/4/22	Thu 12/8/22		Ghadeer Noh,5G
	18	8	=5	Create Database	5 days	Sun 12/11/22	Thu 12/15/22	17	srver data base [:
	19	9	=3	SW Coding	10 days	Sun 12/18/22	Thu 12/29/22	18	Nsreen Hujjatulla
	20	9		system integration	8 days	Sun 1/1/23	Mon 1/9/23	19	5G modem [1],De
	21	<u>-</u>		Documentation	2 days	Tue 1/10/23	Wed 1/11/23	20	Ahlam ahmad,Or
	22	<u>e</u>	*	 Monitoring and controlling 	15 days	Thu 1/12/23	Wed 2/1/23		
	23	<u>-</u>		Project Scope Validation	2 days	Thu 1/12/23	Sun 1/15/23		Hnan Alghamdi
	24	9	===	Verify that objectives are met		Mon 1/16/23	Tue 1/17/23	23	Ahlam ahmad
	25	a	=5	Schedule control	2 days	Wed 1/18/23	Thu 1/19/23	24	Omar ahmad
	26	<u>a</u>	=5	Budget Control	2 days		Mon 1/23/23	25	Ahlam ahmad
RT	27	e	=5	Project quality check	5 days	Tue 1/24/23	Mon 1/30/23		Ahlam ahmad
SANTT CHAR	28	<u>a</u>	=5	control of risks	2 days	Tue 1/31/23	Wed 2/1/23	27	Ali turki
Ė	29	-	*	4 Closing	6 days	Thu 2/2/23	Thu 2/9/23	27	All Culki
8	30	<u>e</u>	=5		4 days	Thu 2/2/23	Tue 2/7/23		Doomah Alahami
	31	<u>-</u>	=5	Test the App	,			20	Deemah Alghamo
	31		,	show of the application to stakeholders	2 days	Wed 2/8/23	Thu 2/9/23	30	mobile phones, Hnan Alghamdi
	32	≡ @	=3	Take the stakeholders approval	0 days	Thu 2/9/23	Thu 2/9/23		Hnan Alghamdi, papers [0],pens [
	33	⊞ @_	=5	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

	0	Task Mode -	Task Name -	Duration -	Start .	Finish -	Predecessc -	Resource Names
1	4	*	⁴ Rqueue System	78 days	Wed 10/26/22	Thu 2/9/23		
2	4		⁴ Initiation	9 days	Wed 10/26/22	Mon 11/7/22		
3	⊞ 🐴		Define Goles & objectives	1 day	Wed 10/26/22	Wed 10/26/22		Hnan Alghamdi
4	4	=4	Detremain the rolse of	1 day	Wed	Wed	3SS	Ahlam ahmad
			the team		10/26/22	10/26/22		

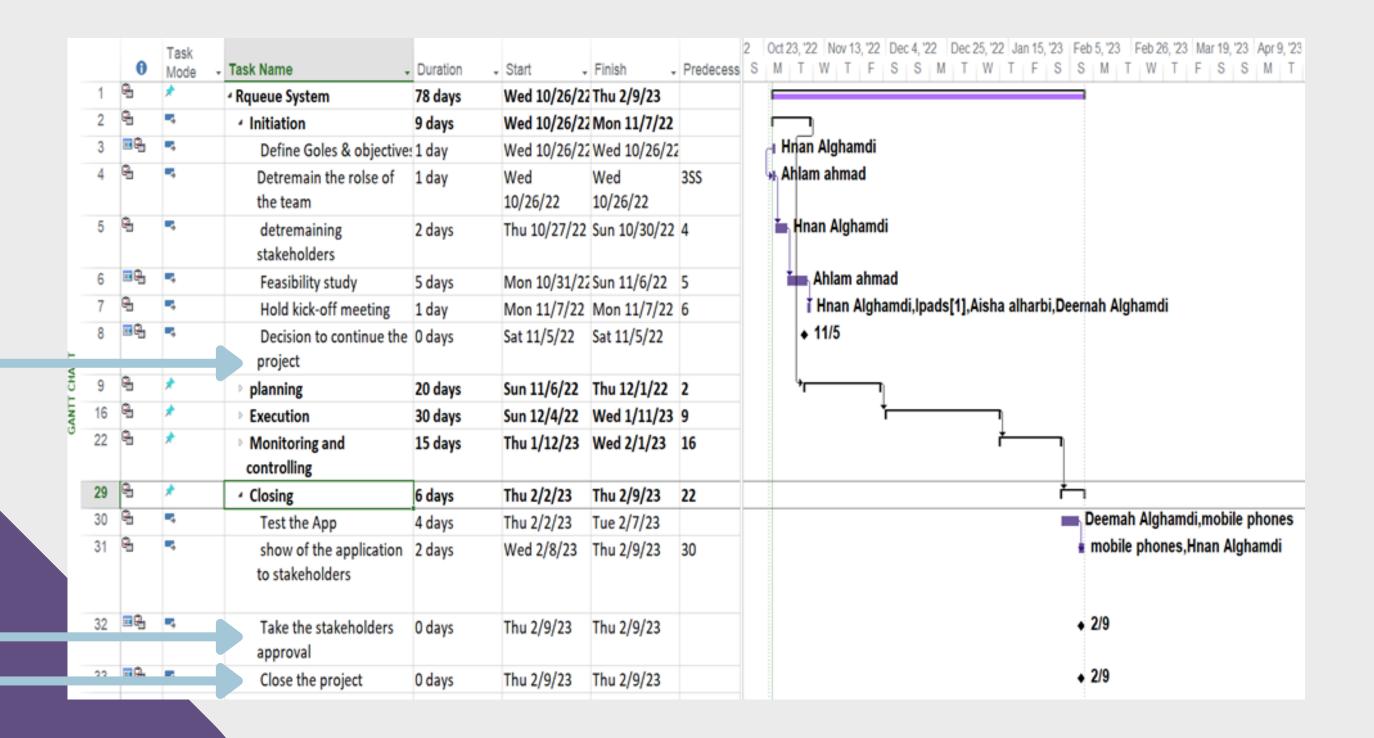
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9	<u>a</u>	*	4 planning	20 days	Sun 11/6/22	Thu 12/1/22		
10	4	- ,	Define scope	2 days	Sun 11/6/22	Mon 11/7/22		Omar ahmad
11	<u>a</u>	=;,	Collect requirements	2 days	Tue 11/8/22	Wed 11/9/22	10	Ahlam ahmad
12	4	=,	Create WBS	5 days	Sun 11/13/22	Thu 11/17/22	11FS+1 day	Ahlam ahmad,Ipa
13	4	=,	estimating the cost of	5 days	Sun 11/20/22	Thu 11/24/22	12	Aisha alharbi •
			the project					•

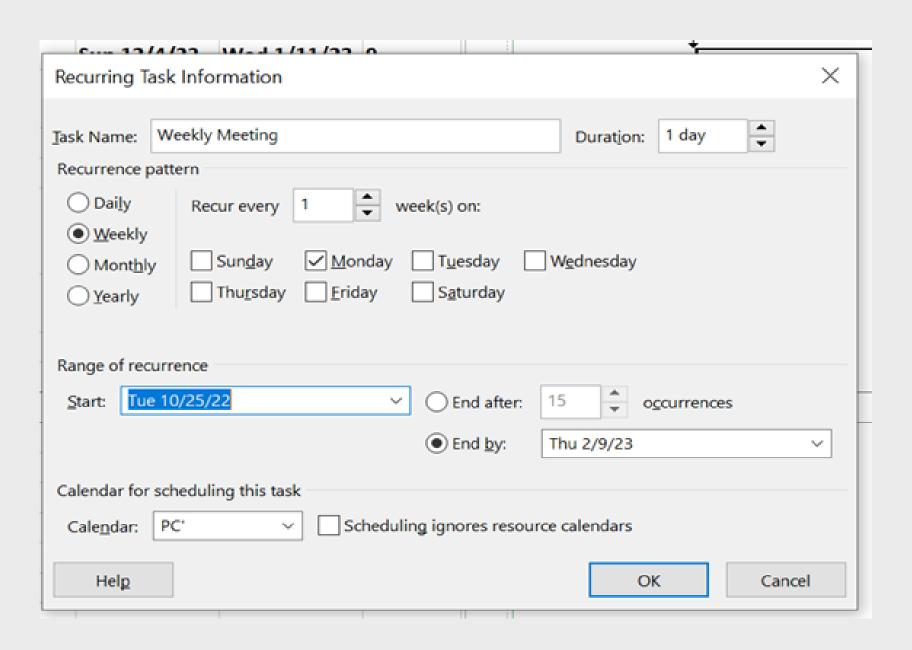
You should configure the relationships between the summary tasks

	0	Task Mode -	Task Name	- Duration -	Start -	Finish .	Pre	2 Oct 23, '22 Nov 13, '22 Dec 4, '22 Dec 25, '22 Jan 15, '23 Fe S M T W T F S S M T W T F S S
1	<u></u>	*	4 Rqueue System	78 days	Wed 10/26/2	Thu 2/9/23		
2	<u>a</u>	=4	▶ Initiation	9 days	Wed 10/26/2	Mon 11/7/22		
9	<u>a</u>	*	▶ planning	20 days	Sun 11/6/22	Thu 12/1/22	2	* <u> </u>
16	<u>a</u>	*	Execution	30 days	Sun 12/4/22	Wed 1/11/23	9	†—————————————————————————————————————
22	<u>—</u>	*	 Monitoring and controlling 	15 days	Thu 1/12/23	Wed 2/1/23	16	**************************************
29	<u>-</u>	*	Closing	6 days	Thu 2/2/23	Thu 2/9/23	22	*

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



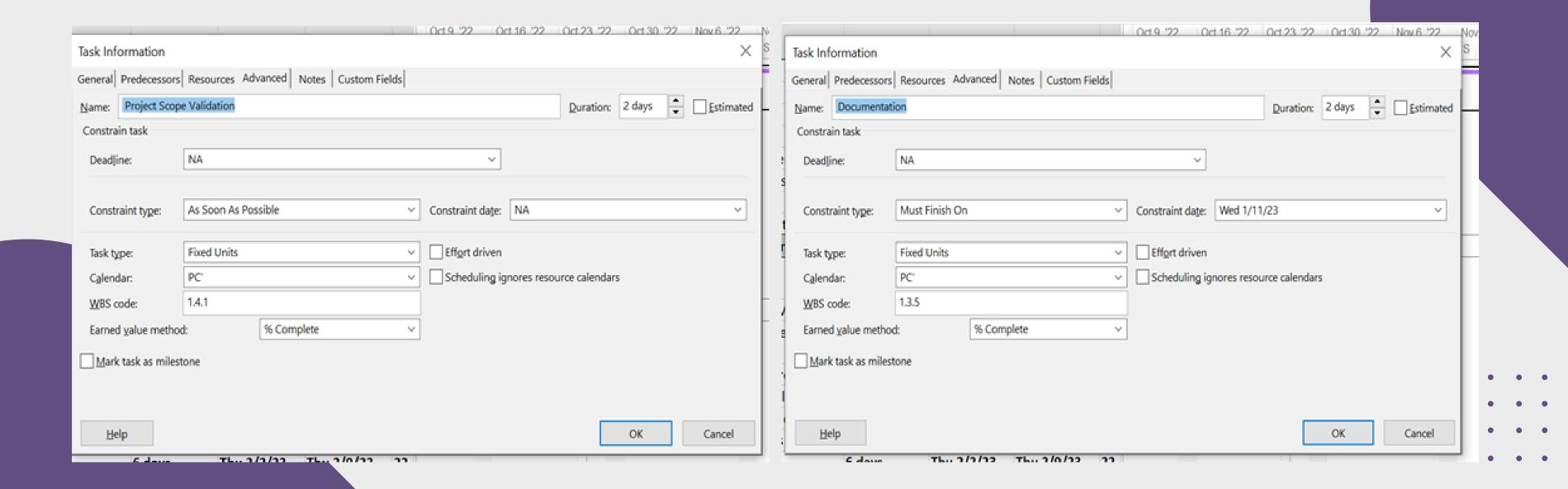
Project should contain a recurring task that should be repeated once a week on Monday until the finish date.



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

	Θ	Resource Name .	Туре -	Materia Label -	Init -	Group +	Max. Units -	Std. Rate .	Ovt. Rate +	Cost/Use +	Accrue At
1		Hnan Alghamdi	Work		HA	Project Manager	100%	hr/ر.س. 145.00/	hr/ر.س. 150.00/hr	ر.س. 0.00	Prorated
2		Ahlam ahmad	Work		Α	Deputy general manage	100%	hr/ر.س. 140.00	hr/ر.س. 150.00	ر.س. 0.00	Prorated
3		Deemah Alghamdi	Work		D	Software engineer	100%	hr/ر.س. 130.00	hr/ر.س. 0.00	ر.س. 0.00	Prorated
4		Ghadeer Noh	Work		G	Interface Designer	100%	hr/ر.س. 120.00/	hr/ر.س. 125.00/hr	ر.س. 0.00	Prorated
5		Nsreen Hujjatullah	Work		N	Programmer	100%	hr/ر.س. 125.00/hr	hr/ر.س. 130.00/hr	ر.س. 0.00	Prorated
6		Aisha alharbi	Work		Α	Database administrator	100%	hr/ر.س. 120.00/	hr/ر.س. 125.00/hr	ر.س. 0.00	Prorated
7		Omar ahmad	Work		0	System analyst	100%	hr/ر.س. 115.00/hr	hr/ر.س. 120.00/hr	ر.س. 0.00	Prorated
8		Ali turki	Work		Α	Risk manager	100%	hr/ر.س. 115.00/hr	hr/ر.س. 120.00/hr	ر.س. 0.00	Prorated
9		PC's	Material		Р	Equipment		ر.س. 0.00		ر.س. 0.00	Prorated
10		Ipads	Material		1	Equipment		ر.س. 0.00		ر.س. 0.00	Prorated
11		papers	Material		p	tool		ر.س. 0.00		ر.س. 0.00	Prorated
12		pens	Material		p	tool		ر.س. 0.00		ر.س. 0.00	Prorated
13		5G modem	Material		5	tool		ر.س. 500.00		ر.س. 0.00	Prorated
14		printer	Material		p	tool		ر.س. 450.00		ر.س. 0.00	Prorated
15		srver data base	Material		s	Equipment		ر.س. 0.00		ر.س. 0.00	Prorated
16		mobile phones	Material		m	Equipment		ر.س. 0.00		ر.س. 0.00	Prorated
17		Team's lunch	Cost		Т						Prorated

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

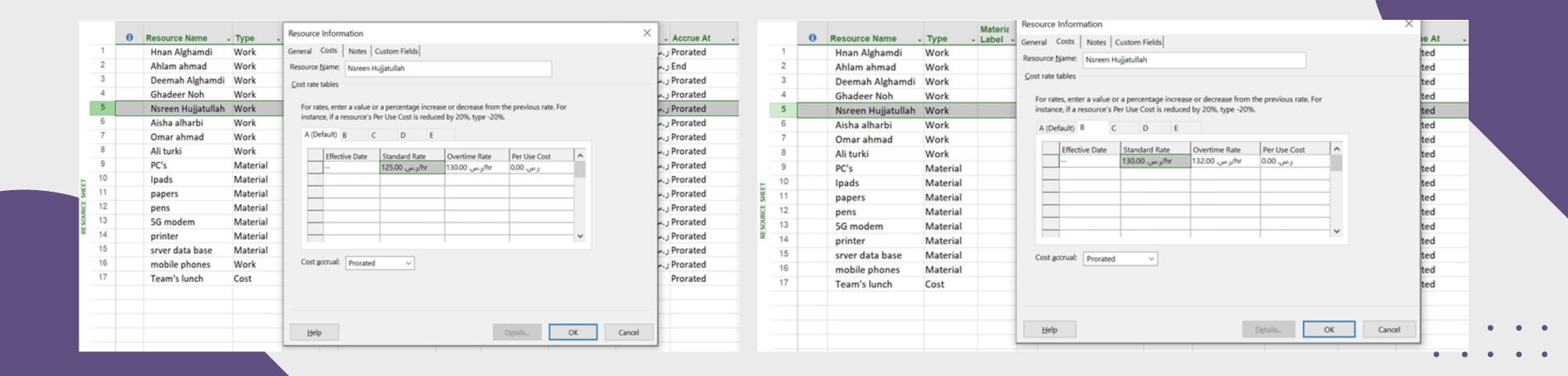


Set type of one task as fixed duration and other task as fixed work

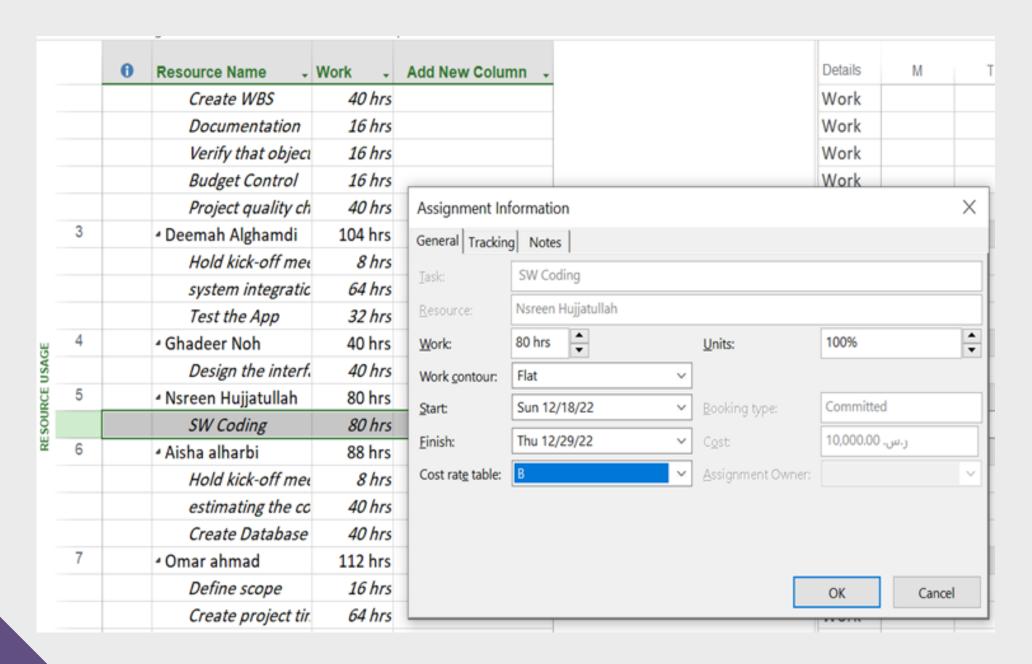
			Oct 9 '22	Oct 16 '22	Oct 23 '22	Oct 30 '22	Nov 6 '22
Task Information							X
General Predecessors	Resources Adv	ranced Notes Custom Fields					
Name: Create Datab	oase				<u>D</u> uration:	5 days	<u>E</u> stimated
Constrain task							
Deadline:	NA			v.			
Constraint type:	As Soon As Pos	sible v	Constraint da	i <u>t</u> e: NA			~
Tack types	Fixed Work	V	✓ Effort driv	ion			
Task type:							
C <u>a</u> lendar:	PC'	V	Schedulin	g ignores reso	ource calendar	S	
WBS code:	1.3.2						
Earned value method	d:	% Complete ∨					
Mark task as milest	tone						
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11.1						01/	0 1
<u>H</u> elp						OK	Cancel
6 days	Thu 2/	2/22 Thu 2/0/22 22			:		

Nov 27 '22 Dec 4 '22 Dec 11 '22 Dec 18 '22 Dec 25 '22 Ja	n 1			
	М			
General Predecessors Resources Advanced Notes Custom Fields				
Name: Test the App				
Constrain task				
Deadline: NA V				
	all			
Constraint type: As Soon As Possible Constraint date: NA	eı			
Task type: Fixed Duration Effort driven				
Calendar: PC' Scheduling ignores resource calendars				
<u>W</u> BS code: 1.5.1				
Earned <u>value</u> method: % Complete				
Mark task as milestone				
		•	•	•
		•	•	•
Help OK Cancel	•	•	•	•

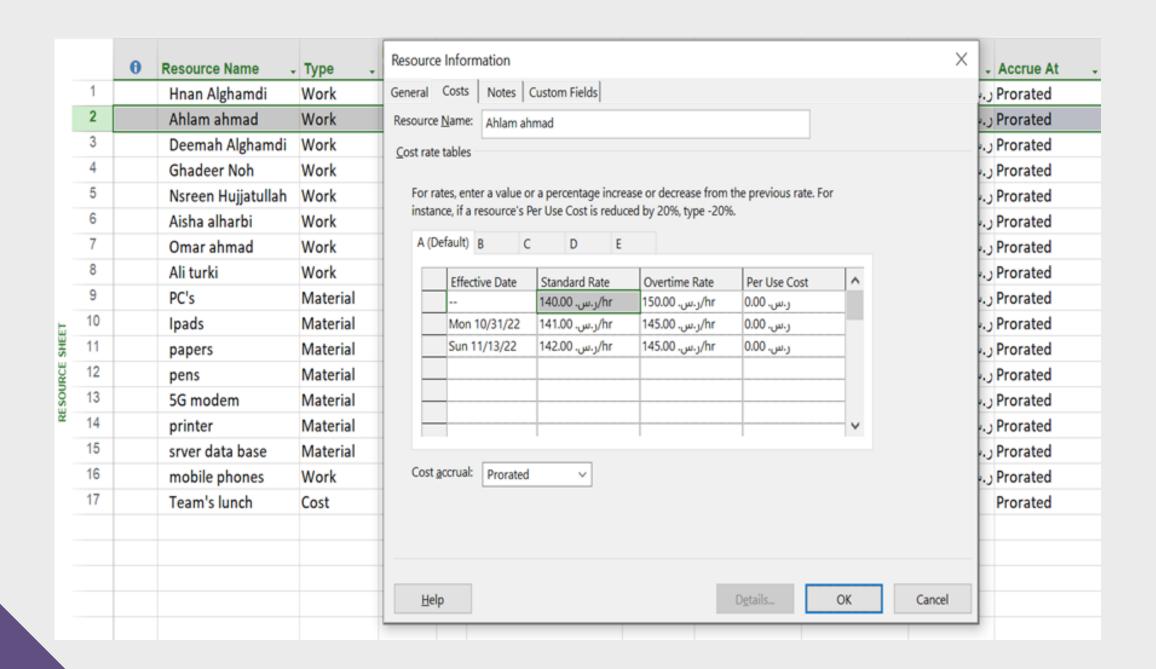
At least one person of your resource has a multiple pay rate depend on task and you should attach these different pay rates to his tasks.



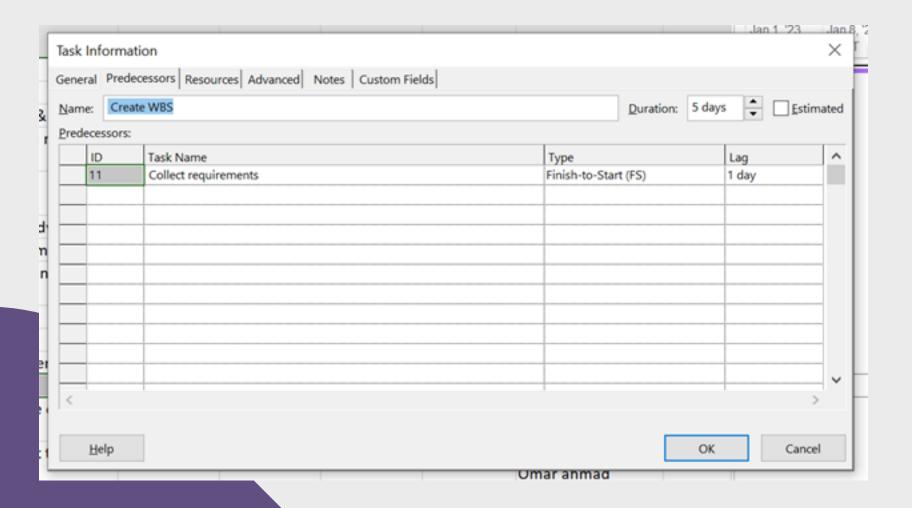
At least one person of your resource has a multiple pay rate depend on task and you should attach these different pay rates to his tasks.



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



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



			Oct 18	22 Oct
Task Informat	ion			×
General Predeo	cessors Resources Advanced Notes Custom Fields			
Name: Feasil	bility study	Quration: 5 d	ays 🔓 🗀 Es	timated
Predecessors:				
ID	Task Name	Туре	Lag	^
5	detremaining stakeholders	Finish-to-Start (FS)	-1 day	
				_
<				>
Uele				
<u>H</u> elp		Ol	Car	ncel