

**King Saud University**  
**Collage of Computer and information sciences**  
**Department of information system**  
**IS 351: information system project management**  
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## Table of Contents

Introduction.....	2
Objectives.....	2
project scope.....	2
project assumptions.....	2
Gantt Chart: .....	3
<i>Task:</i> .....	3..
<i>Constraints:</i> .....	4-6
Resource List.....	7
Resource Task Assignment: .....	7
<i>Working Time Calendar:</i> .....	7
<i>Mapping Tasks:</i> .....	8
Project Statistics / Reports.....	9
<i>Who does what</i> .....	9-10
<i>Resource Information:</i> .....	10.
Conclusion.....	11
References .....	11



## Introduction:

Data Science and data analytics have been a major phenomenon nowadays due to their importance in businesses and governments, there's no doubt that business analysis and business intelligence cannot be excluded nowadays due to their major benefits in decision making, not just this, data Science and its fields have opened a variety of career paths, new majors, jobs, and opportunities to ambitious youth, in the other hand, it has given the chance for businesses and firms to provide innovative services, products, and consultation.

## Project goals and objectives:

- Provide data analytics.
- Provide analytics training.
- Managing data quality.
- Visualize data.

## Project assumptions:

- Project will follow waterfall methodology throughout the execution
- Project will follow team governance guidelines and requirements
- The team will write the solution in Java

## Project Scope:

providing services, creating products, provide consultation in artificial intelligence and data science, data analytics, and business intelligence.

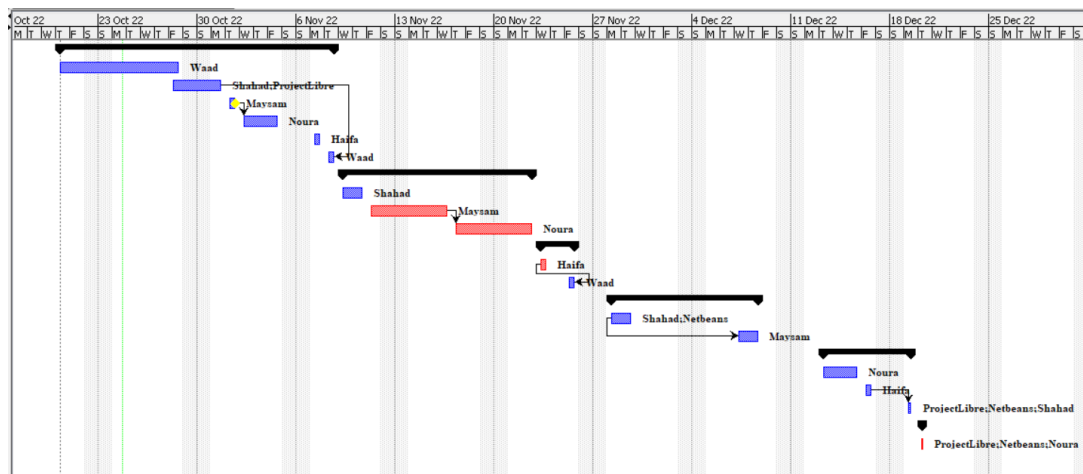


## Subtopics

### 1) Gantt chart

#### A) Task

	Ⓜ	Name	Duration	Start	Finish	Predecessors	Resource Names
1		Requirement analysis	14 days?	10/20/22 8:00 AM	11/8/22 5:00 PM		
2		market research	7 days?	10/20/22 8:00 AM	10/28/22 5:00 PM		Waad
3		cost analysis	2 days?	10/28/22 8:00 AM	10/31/22 5:00 PM		Shahad;ProjectLibre
4		feature list	1 day?	11/1/22 8:00 AM	11/1/22 5:00 PM		Maysam
5		GUI feature list	3 days?	11/2/22 8:00 AM	11/4/22 5:00 PM	4	Noura
6		brainstorming	1 day?	11/5/22 8:00 AM	11/7/22 5:00 PM		Haifa
7		identify resources	1 day?	11/8/22 8:00 AM	11/8/22 5:00 PM	3FF	Waad
8		Design	10 days?	11/9/22 8:00 AM	11/22/22 5:00 PM		
9		feature prioritization	2 days?	11/9/22 8:00 AM	11/10/22 5:00 PM		Shahad
10		architecture definition	4 days?	11/11/22 8:00 AM	11/16/22 5:00 PM		Maysam
11		GUI desgin	4 days?	11/17/22 8:00 AM	11/22/22 5:00 PM	10	Noura
12		meeting	3 days?	11/23/22 8:00 AM	11/25/22 5:00 PM		
13		meeting1	1 day?	11/23/22 8:00 AM	11/23/22 5:00 PM		Haifa
14		meeting2	1 day?	11/25/22 8:00 AM	11/25/22 5:00 PM	13SF	Waad
15		Implementation	9 days?	11/28/22 8:00 AM	12/8/22 5:00 PM		
16		coding module	2 days?	11/28/22 8:00 AM	11/29/22 5:00 PM		Shahad;Netbeans
17		debugging	2 days?	12/7/22 8:00 AM	12/8/22 5:00 PM	16SS	Maysam
18		Testing	4.5 days?	12/13/22 8:00 AM	12/19/22 1:00 PM		
19		unit testing	3 days?	12/13/22 8:00 AM	12/15/22 5:00 PM		Noura
20		integreatin testing	1 day?	12/16/22 8:00 AM	12/16/22 5:00 PM		Haifa
21		system testing	0.5 days?	12/19/22 8:00 AM	12/19/22 1:00 PM	20	ProjectLibre;Netbeans;Shahad
22		deployment	0.083 days?	12/20/22 8:00 AM	12/20/22 8:40 AM		
23		project release	0.083 days?	12/20/22 8:00 AM	12/20/22 8:40 AM		ProjectLibre;Netbeans;Noura



#### Task Links:

FF: identifying the resources must finish when cost analysis finishes

SF: meeting2 will finish when meeting1 starts

SS: debugging will start when coding module starts



## Constraints:

Task Information - 11

General Predecessors Successors Resources **Advanced** Notes

Name: GUI desgin

WBS:  ☐ Display task as milestone

Constraints

Constraint Type: Start No Later Than Constraint Date: 11/17/22 8:00 AM

Deadline:

Type: Fixed Units ☒ Effort Driven

Task Calendar:  ☐ Ignore Resource Calendar

Earned Value Method: % Complete

Close Help



Task Information - 13

General Predecessors Successors Resources Advanced Notes

Name: meeting1

WBS:  ☐ Display task as milestone

Constraints

Constraint Type: Must Start On Constraint Date: 11/23/22 8:00 AM

Deadline:

Type: Fixed Units ☒ Effort Driven

Task Calendar:  ☐ Ignore Resource Calendar

Earned Value Method: % Complete

Close Help



Task Information - 23

General Predecessors Successors Resources Advanced Notes

Name: project release

WBS:  ☐ Display task as milestone

Constraints

Constraint Type: As Soon As Possible Constraint Date:

Deadline:

Type: Fixed Units ☒ Effort Driven

Task Calendar:  ☐ Ignore Resource Calendar

Earned Value Method: % Complete

Close Help

### Constraint explanation:

1-GUI design means that interface design cannot be delayed after that specific date but can be finished earlier.

2-meeting1 means that the meeting must start on that specific date.

3-project release means the project needs to be done and published as soon as possible.



## B. Resource List:

Resource sheet showing 2 types of resources: Human (Project team), Material (Software)

		Name	RBS	Type	E-mail Address	Material Label	Initials	Group
1		Waad		Work	Waad@gmail.com		W	Analyst
2		Shahad		Work	Shahad@gmail.com		S	Analyst
3		Maysam		Work	Maysam@gmail.com		M	Implementer
4		Noura		Work	Noura@gmail.com		N	Implementer
5		Haifa		Work	Haifa@gmail.com		H	Implementer
6		ProjectLibre		Material			P	
7		Netbeans		Material			N	

Max. Units	Standard Rate	Overtime Rate	Cost Per Use	Accrue At	Base Calendar
100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar1
100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar1
100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar1
100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar2
100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar2
	\$0.00		\$0.00 Prorated		
	\$0.00		\$0.00 Prorated		

## 2) Resource Task Assignment

a) Two Working Time Calendars for two of your Resources.

Change Working Calendar

For: Calendar2

☐ Use default  
☐ Non-working time  
☒ Non-default working time

From: To:  
 7:00 13:00

October 2022 November 2022

December 2022 January 2023

New... Options... OK Cancel Help

Change Working Calendar

For: Calendar1

☐ Use default  
☐ Non-working time  
☒ Non-default working time

From: To:  
 8:00 12:00  
 13:00 17:00

October 2022 November 2022

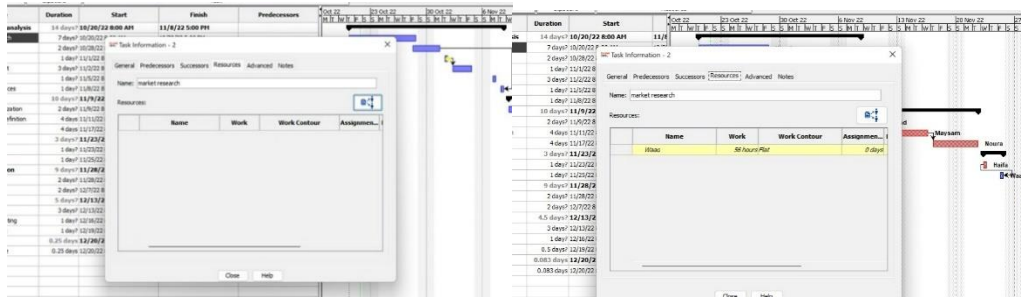
December 2022 January 2023

New... Options... OK Cancel Help





b) Resource Task Assignment to map all tasks to relevant resources.



	Initials	Group	Max. Units	Standard Rate	Overtime Rate	Cost Per Use	Accrue At	Base Calendar
1	W	Analyst	100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar 1
2	S	Analyst	100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar 1
3	M	Implementer	100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar 1
4	N	Implementer	100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar 2
5	H	Implementer	100%	\$100.00/hour	\$50.00/hour	\$0.00 Prorated		Calendar 2
6	P			\$0.00		\$0.00 Prorated		
7	N			\$0.00		\$0.00 Prorated		

Views		Clipboard	Resource						
	Ⓢ	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units
1	👤	Waad		Work	Waad@gmail.com		W	Analyst	
2	👤	Shahad		Work	Shahad@gmail.com		S	Analyst	
3	👤	Maysam		Work	Maysam@gmail.com		M	Implementer	
4	👤	Noura		Work	Noura@gmail.com		N	Implementer	
5	👤	Haifa		Work	Haifa@gmail.com		H	Implementer	
6	👤	ProjectLibre		Material			P		
7	👤	Netbeans		Material			N		



### 3) Project Statistics / Reports

-Who does what

The Who Does What or Tasks Assigned report, is a checklist for your resources (either work or material) to check where they are allocated and how are they doing

Who Does What						
Resource ID	Resource					
1	Waad					
Task ID	Task	Work	Assignment Units	Assignment	Start	Finish
14	meeting2	8 hours	100%	0 days	11/25/22 8:00 AM	11/28/22 5:00 PM
2	market research	56 hours	100%	0 days	10/20/22 8:00 AM	11/2/22 8:00 AM
7	identify resources	8 hours	100%	0 days	11/8/22 8:00 AM	11/9/22 8:00 AM
		72 hours				
2	Shahad					
Task ID	Task	Work	Assignment Units	Assignment	Start	Finish
3	cost analysis	16 hours	100%	0 days	10/28/22 8:00 AM	11/1/22 5:00 PM
21	system testing	4 hours	100%	0 days	12/20/22 8:00 AM	12/20/22 2:00 PM
16	coding module	16 hours	100%	0 days	11/28/22 8:00 AM	11/30/22 8:00 AM
9	feature prioritization	16 hours	100%	0 days	11/9/22 8:00 AM	11/14/22 8:00 AM
		52 hours				
3	Maysam					
Task ID	Task	Work	Assignment Units	Assignment	Start	Finish
4	feature list	8 hours	100%	0 days	11/1/22 8:00 AM	11/2/22 8:00 AM
17	debugging	16 hours	100%	0 days	12/7/22 8:00 AM	12/8/22 5:00 PM
10	architecture definition	32 hours	100%	0 days	11/11/22 8:00 AM	11/17/22 5:00 PM
		56 hours				
4	Noura					
Task ID	Task	Work	Assignment Units	Assignment	Start	Finish
23	project release	0.667 hours	100%	0 days	12/20/22 8:00 AM	12/20/22 8:40 AM



Resource ID	Resource						
5	GUI feature list	24 hours	100%	0 days	11/2/22 8:00 AM	11/8/22 1:00 PM	
11	GUI desgin	32 hours	100%	0 days	11/18/22 8:00 AM	11/28/22 3:00 PM	
19	unit testing	24 hours	100%	0 days	12/13/22 8:00 AM	12/19/22 2:00 PM	
		80.667 hours					

5	Haifa						
Task ID	Task	Work	Assignment Units	Assignment	Start	Finish	
6	brainstorming	8 hours	100%	0 days	11/5/22 8:00 AM	11/7/22 5:00 PM	
20	integreatin testing	8 hours	100%	0 days	12/16/22 8:00 AM	12/19/22 5:00 PM	
13	meeting1	8 hours	100%	0 days	11/23/22 8:00 AM	11/24/22 1:00 PM	
		24 hours					

6	ProjectLibre						
Task ID	Task	Work	Assignment Units	Assignment	Start	Finish	
23	project release	1	100%	0 days	12/20/22 8:00 AM	12/20/22 8:40 AM	
21	system testing	1	100%	0 days	12/20/22 8:00 AM	12/20/22 1:00 PM	
3	cost analysis	1	100%	0 days	10/28/22 8:00 AM	10/31/22 5:00 PM	
		0 hours					

7	Netbeans						
Task ID	Task	Work	Assignment Units	Assignment	Start	Finish	
21	system testing	1	100%	0 days	12/20/22 8:00 AM	12/20/22 1:00 PM	
23	project release	1	100%	0 days	12/20/22 8:00 AM	12/20/22 8:40 AM	
16	coding module	1	100%	0 days	11/28/22 8:00 AM	11/29/22 5:00 PM	
		0 hours					

Page 2

## -Resource Information

A simple list report displays all your resources (work-material) with the following columns:

Name, RBS, Type, E-mail Address, Material Label

Resource Information					
ID	Name	RBS	Type	E-mail Address	Material Label
1	Waad		Work	Waad@gmail.com	
2	Shahad		Work	Shahad@gmail.com	
3	Maysam		Work	Maysam@gmail.com	
4	Noura		Work	Noura@gmail.com	
5	Haifa		Work	Haifa@gmail.com	
6	ProjectLibre		Material		
7	Netbeans		Material		



### Conclusion:

In conclusion, we hope our system will help to improve making decisions in business companies, provide data analytics, provide analytics training, manage data quality, and visualize data.

### References:

*-Data Science Company (Quant) Website*

*-O'Brien Marc and Chretienneau Laurent, ProjectLibre 1.9.3, computer software*

