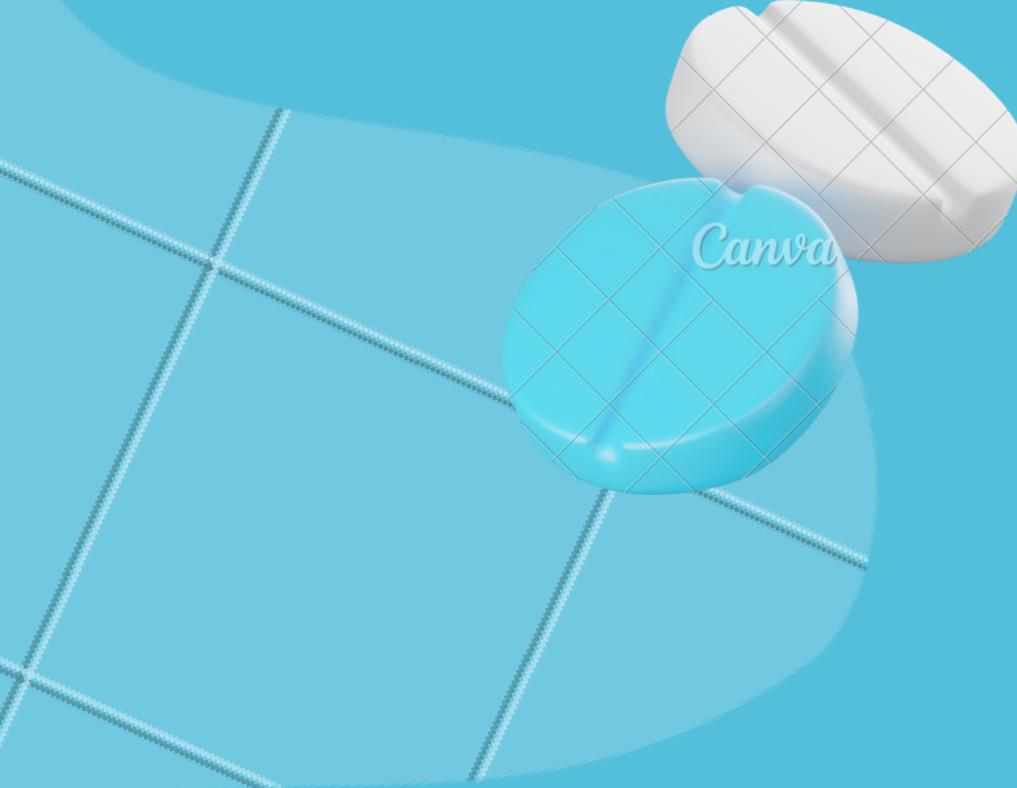


UJ Clinic System



Background and motivation



Background

The goal represents the main work of UJ clinic in providing appointments and consultations for students and staff. It is an easy and flexible application that helps book appointments for Jeddah University clinics.



Motivation:

There are no online services provided for the clinic that helps people book and view appointments.

UJ Clinic System

An app that allows users to book and view appointments at UJ clinic



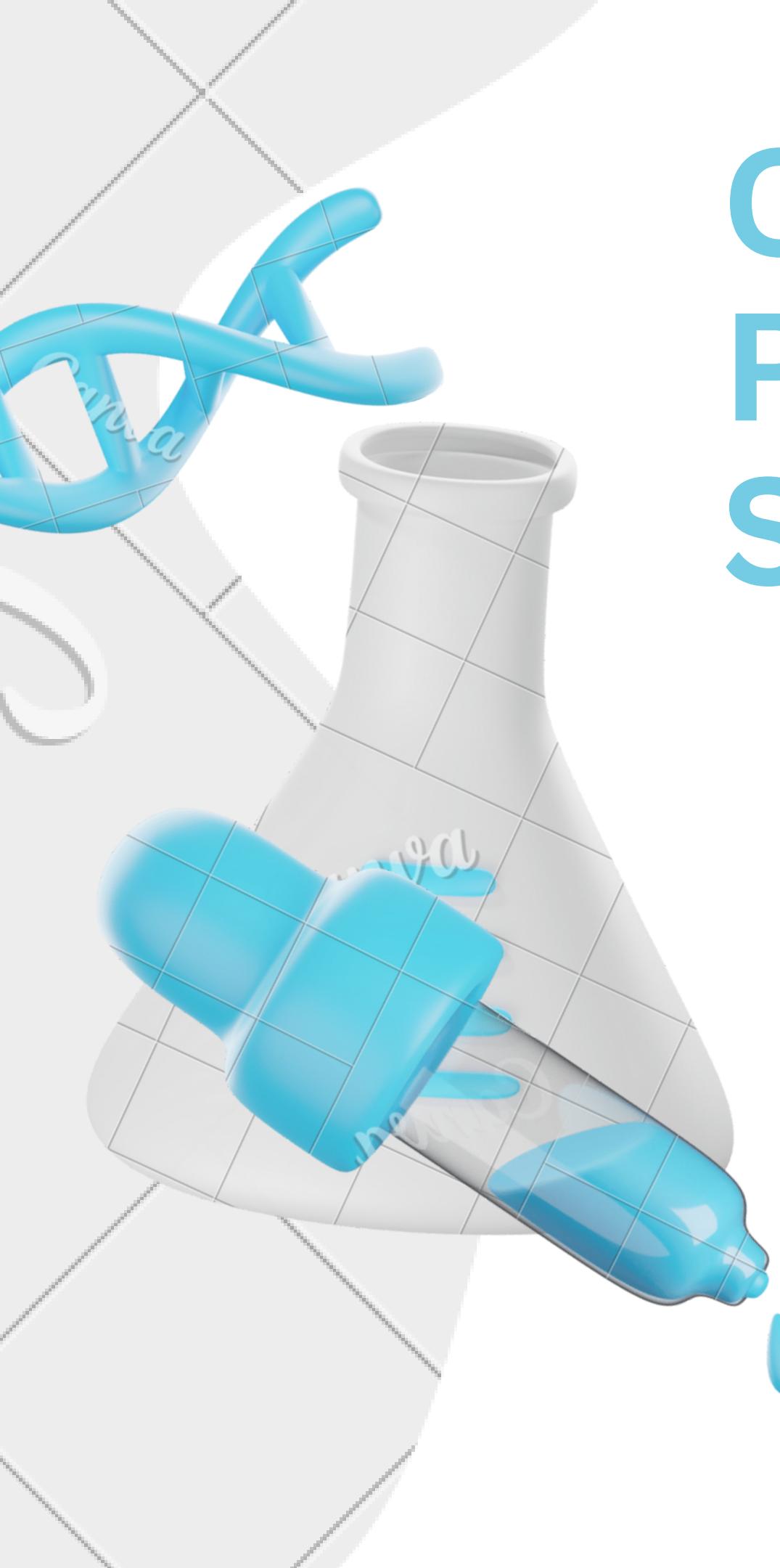
Bussiness Case Analysis Highlights



Business Objectives

- reducing the financial cost for students by booking at the university's clinic instead of private hospitals
- replacing name-brand pharmaceuticals with generic equivalents
- speeding up the returns on laboratory tests





Current Situation and Problem/Opportunity Statement

There is no electronic system for booking and displaying the available appointments in the clinics of the University of Jeddah, which causes students to waste their time waiting in attendance for reservations in the clinic.

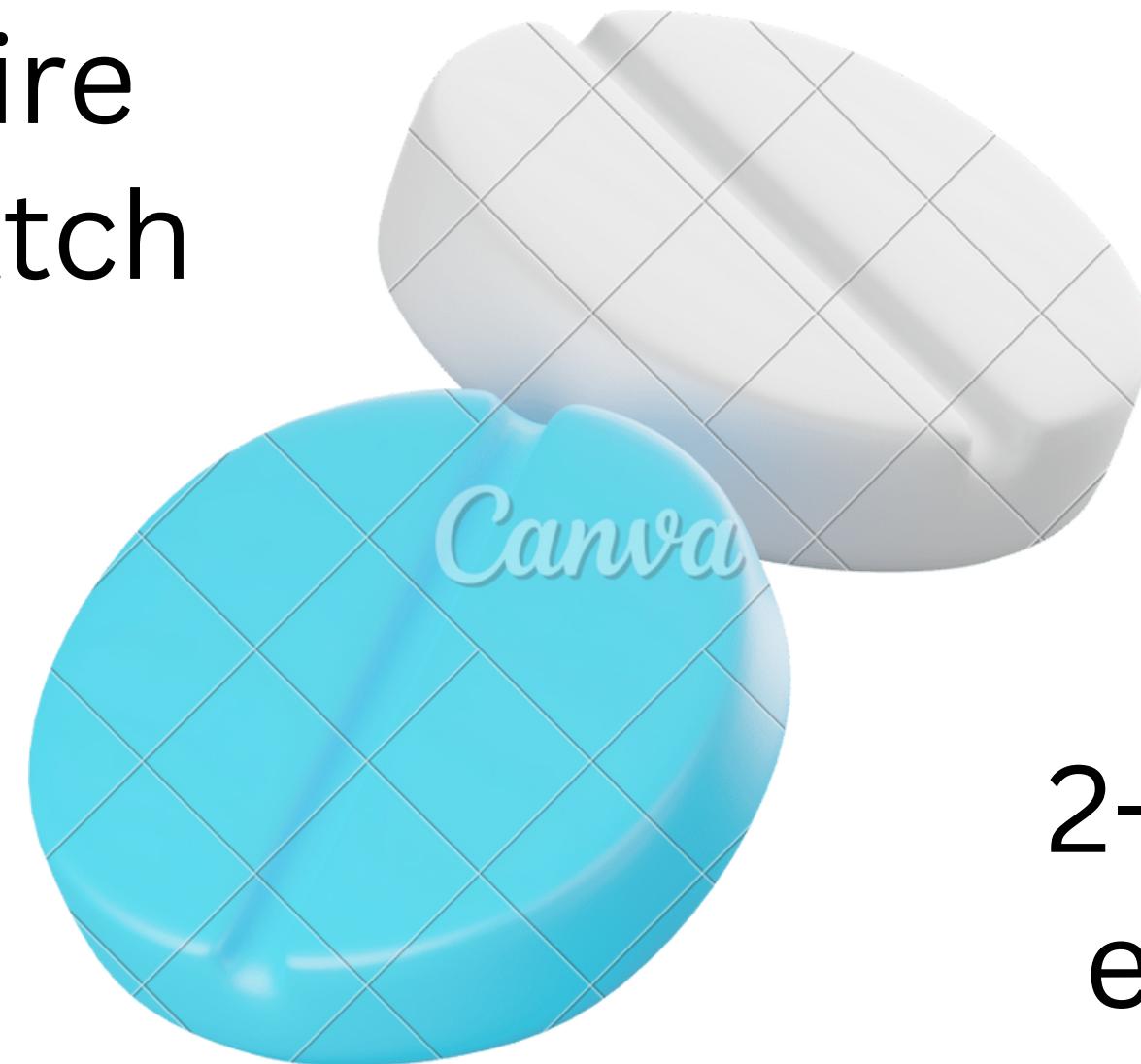
Critical Assumption and Constraints

- The proposed intranet site must be a valuable asset for the UJ clinic system
- The new system should work on existing software
- it should be easily accessible and secure



Analysis of Option and Recommendation

1-Design an entire system from scratch



2- Purchasing pre-existing systems

Piminary Project Requirements

User can:

- 1- Opening a medical file in the clinic
- 2- Reserving clinic appointment
- 3- Reviewing the medical file
- 4 - Review the laboratory results
- 5 - Dispensing treatments
- 6 - Review of medical diagnosis





Budget Estimate and Financial Analysis

- project manager and external/internal staff working about 42 hours per week for 10 months.
- \$20,000 for purchasing software and services from suppliers.
- members would be \$100 per hour
- medical equipment will be \$10,000 per month.
- medicine will be according to the clinic's disbursement each month with a limit of 12,000\$ per month.
- maintenance costs of \$60,000 are included for each year
- The expected benefits are based on the hours spent by the data analyst building the database for the project.



\$752,000

Schedule Estimate

Our sponsor would like our project to be completed within 10 months, but there needs to be some flexibility in the schedule, so we assume that our program system has a minimum utility life of 4 years.



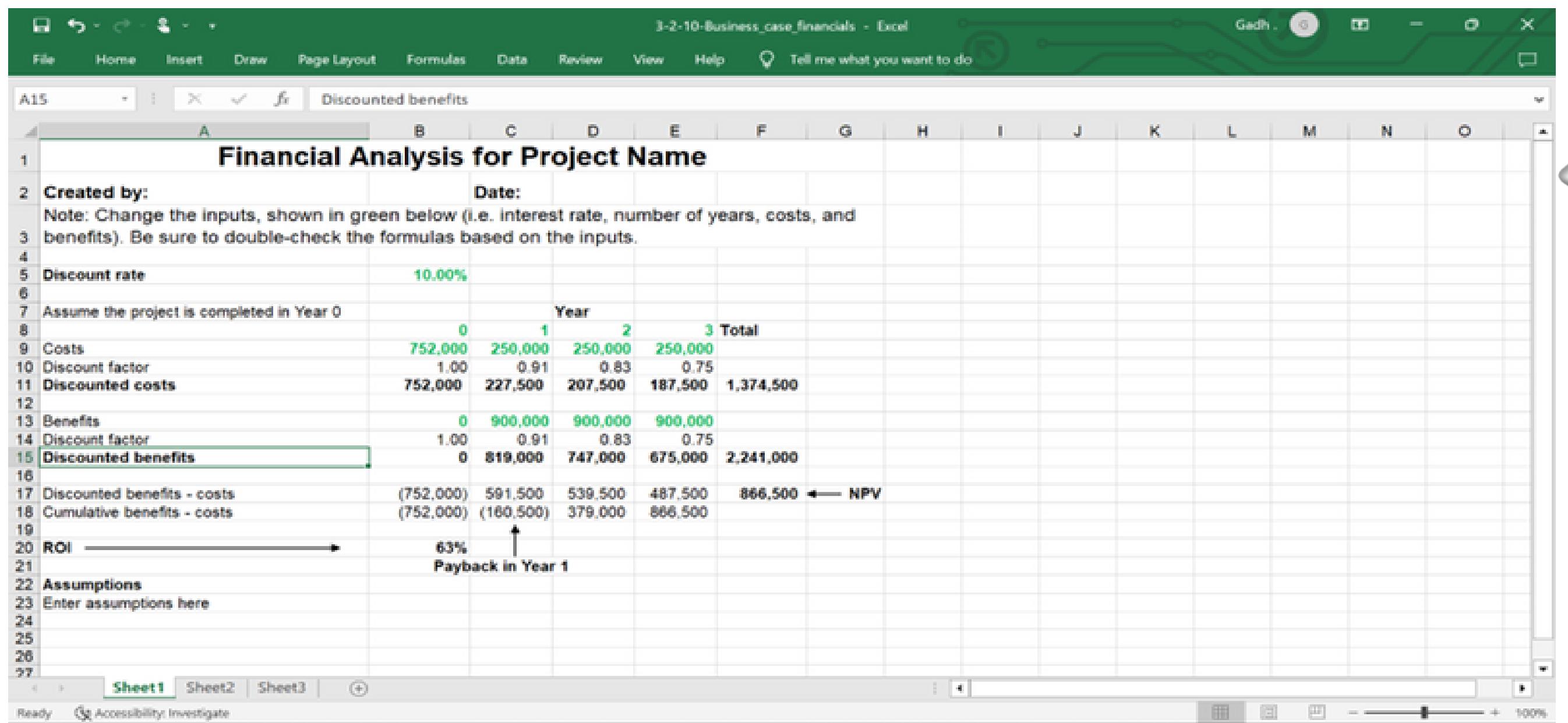
A 3D-style illustration of a doctor with a beard and a stethoscope around his neck. He is wearing a white lab coat over a blue shirt. He is holding a black smartphone in his right hand, pointing at the screen which displays a blue circular icon with a white cross inside. The background features a large, stylized globe.

Potential Risks

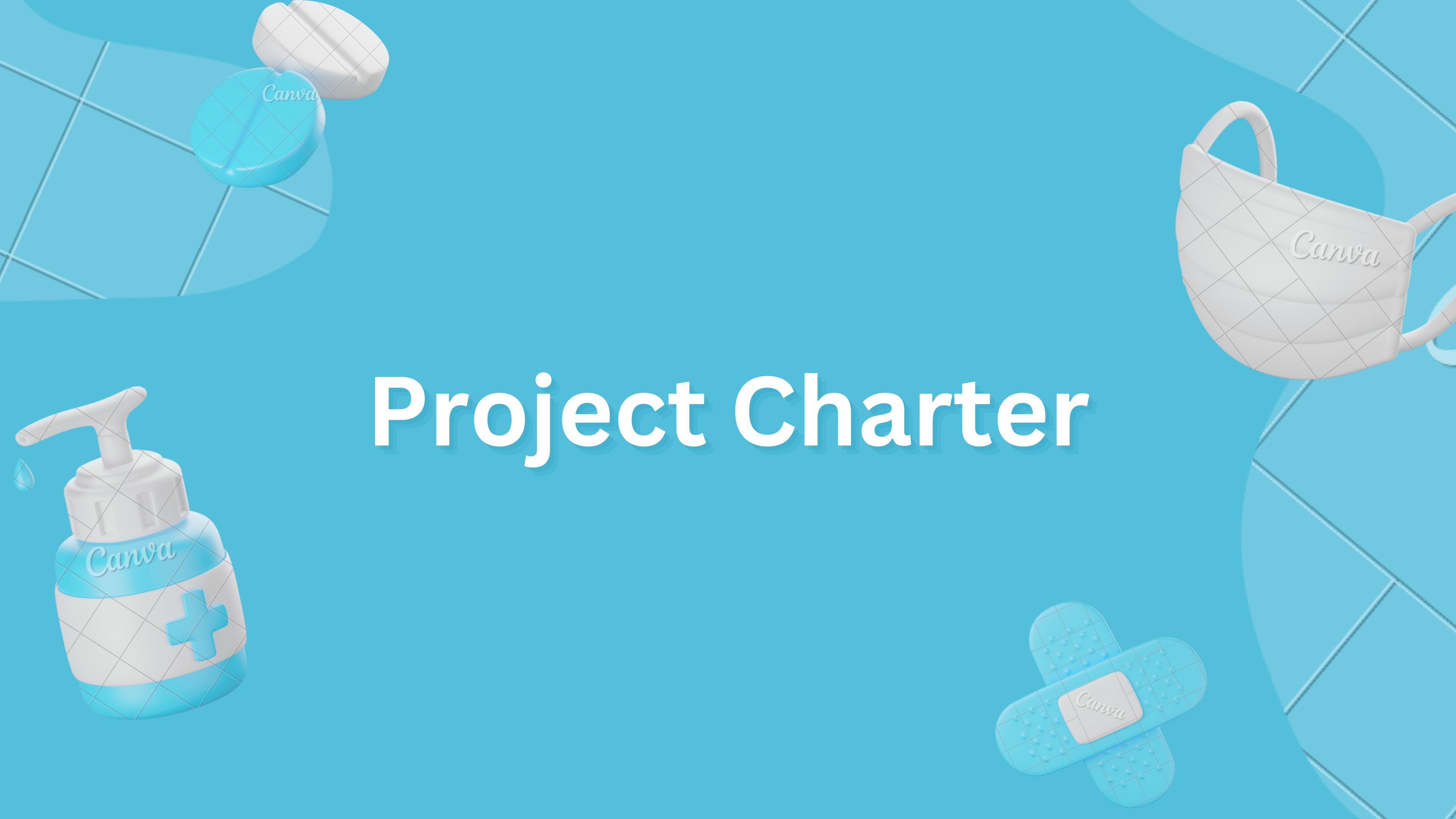
This project carries several risks, including losing data during unexpected shutdowns and system failures, lack of physicians, or lack of available appointments

Exhibits

Exhibit A: Financial Analysis



Project Charter



Project Objectives:

- 1- This project aims to provide an application with high portability and efficiency for use by employees and students of the University of Jeddah.
- 2- One of the goals of developing our application is that it will allow students to easily book or cancel appointments and also remind them of appointments by sending messages to their university email

Main Project Success Criteria:

- To reach at least 50% of the students of UJ as a customer base
- The app should handle the load of 2500 user With high data integrity, user information is kept confidential and not seen by unauthorized persons

Approach:

Develop a survey to solicit and determine the fundamental features of the application.

Delegate tasks between team members for planning, development, analysis, and installation processes.

Research project scalability, budget, and existing templates of project management documents.

Find existing software to obtain and manage user inputs, ensure security and availability, and display data.

Research database structures and design.

Approach (part 2):

Develop a mockup design of the application.

Develop the application using an agile and critical chain approach, to allow flexibility, solicit consistent feedback, and eliminate any constraints that may occur during the project.

Create a system for calculating the application's expenditure and revenue during the project and six months after it is finished.

Roles and Responsibilities

Role	Name	Organization/ Position	Contact Information
Project manager	Abdullah Alharbi	Project manager	Abduallh@gmail.com
UML designer	Razan Albeshri	Software Engineer	Razan@gmail.com
ERD designer	Ghada Yusef	Data analyst	Ghada@gmail.com
Sponsor	Tcafe Alharbi	CEO	Tcafe@gmail.com
Advisor	Mohammed Alhumaidi	Tester	Mohammed@gmail.com
Team member	Sama Khalid	Client representative	Sama@gmail.com

Comment:

"We need the opinion of the customer (UJ student) after each stage of application development to ensure that the application is developed in a way that meets the customer's needs before launching the application."

- Project Manager: Abdullah Alharbi

Scope Statement:

Project Justification

There is a lack of e-services for booking and displaying available appointments in the university's clinic. The project will help eliminate the problems faced by staff, faculty members, and students trying to find an appointment and ease the process.

A 3D rendering of a doctor with dark hair and a beard, wearing a white coat over a blue shirt and tie. He is wearing a black surgical mask and holding a smartphone in his right hand. The screen of the phone displays a blue circular icon with a white cross and the word "Canva".

Project Characteristics and Requirements

1. Booking Appointment
2. Confirmation notification
3. Offers notification
4. System implementation
5. Availability
6. Security
7. Accessibility

Project management-related deliverables:

business case, charter, team contract, scope statement, WBS, schedule, cost baseline, status reports, final project presentation, final project report, lessons-learned report, and any other documents required to manage the project.

Product-related deliverables:

1. Survey
2. Appointment Booking Database
3. Code
4. Website & Application Design
5. Testing Plan
6. release Documentation
7. Promotion



Project Success Criteria:

Our goal is to have the project completed within the time frame of 10 months for no more than 752,000 \$. The project's sponsor has stressed that the project shall be completed at the start of the new academic year of 2023-2024 and that the venture shall break even within the first 18 months of operation. To reach this financial goal, at least 50% of the students of UJ as a customer base, and the app should handle the load of 2500 users with high data integrity, user information is kept confidential and not seen by unauthorized persons. The project must achieve stakeholder full satisfaction, which will help promote the company's reputation.

Project schedule processes

Scope process

Gantt Chart Tools Final Project - Project Professional Gadh.

File Task Resource Report Project View Help Gantt Chart Format Tell me what you want to do

Sort [No Highlight] Timescale: Zoom Timeline Details New Window Macros Gantt Chart Wizard

Outline [No Filter] [7] Days Entire Project Selected Tasks

Tables [No Group] Resource Usage Team Planner Other Views Resource Sheet

Gantt Chart Usage Task Views Resource Views Data Zoom Split View Window Macros Ghada's Group

Task Mode Task Name Duration Start Finish Resource Names Cost % Complete Add A Oct '23 01 08 15

GANTT CHART

	Task Mode	Task Name	Duration	Start	Finish	Resource Names	Cost	% Complete	Add A	Oct '23	01	08	15
1	✓	Initiating	16 days	Sat 01/04/23	Fri 21/04/23		16,800.00	100%					
2	✓	Identify Stakeholders	3 days	Sat 01/04/23	Tue 04/04/23	Abdullah Alharbi	2,400.00	100%					
3	✓	Develop project charter	3 days	Tue 04/04/23	Thu 06/04/23	Ghada Yusef	2,400.00	100%					
4	✓	Initiate knowledge areas, processes, and output	5 days	Thu 06/04/23	Wed 12/04/23	Abdullah Alharbi ; Mohammed Alhumaidi	8,000.00	100%					
5	✓	Hold a project kick-off meeting	5 days	Thu 13/04/23	Wed 19/04/23	Tefaf Alharbi	4,000.00	100%					
6	✓	Planning	10 days	Fri 07/04/23	Thu 20/04/23		8,000.00	100%					
7	✓	Develop project plan	10 days	Fri 07/04/23	Thu 20/04/23	Ghada Yusef	8,000.00	100%					
8	✓	Hold a meeting to discuss team planning	10 days	Fri 21/04/23	Thu 04/05/23		8,000.00	100%					
9	✓	Establish contract with the team	10 days	Fri 21/04/23	Thu 04/05/23	Mohammed Alhumaidi	8,000.00	100%					
10	✓	Develop a scope statement	25 days	Sat 22/04/23	Thu 25/05/23		24,000.00	100%					
11	✓	Collect requirements	15 days	Sat 22/04/23	Thu 11/05/23	Abdullah Alharbi	12,000.00	100%					
12	✓	Define scope	5 days	Thu 11/05/23	Wed 17/05/23	Razan Albeshri	4,000.00	100%					
13	✓	Create work breakdown structure	5 days	Wed 17/05/23	Tue 23/05/23	Sama Khalid; Tefaf Alharbi	8,000.00	100%					
14	✓	Develop schedule plan	25 days	Mon 01/05/23	Fri 02/06/23		20,000.00	100%					
15	✓	Define activities	15 days	Mon 01/05/23	Fri 19/05/23	Mohammed Alhur	12,000.00	100%					

Ready New Tasks : Manually Scheduled

EE/V/T ENG Q 28°C

Gantt Chart Tools Final Project - Project Professional Gadh.

File Task Resource Report Project View Help Gantt Chart Format Tell me what you want to do

Sort [No Highlight] Timescale: Zoom Timeline Details New Window Macros Gantt Chart Wizard

Outline [No Filter] [7] Days Entire Project Selected Tasks

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Gantt Chart Usage Task Views Resource Views Data Zoom Split View Window Macros Ghada's Group

Task Mode Task Name Duration Start Finish Resource Names Cost % Complete Add A Oct '23 01 08 15

GANTT CHART

	Task Mode	Task Name	Duration	Start	Finish	Resource Names	Cost	% Complete	Add A	Oct '23	01	08	15
14	✓	Develop schedule plan	25 days	Mon 01/05/23	Fri 02/06/23		20,000.00	100%					
15	✓	Define activities	15 days	Mon 01/05/23	Fri 19/05/23	Mohammed Alhur	12,000.00	100%					
16	✓	Creating Gantt chart	10 days	Sat 20/05/23	Thu 01/06/23	Sama Khalid	8,000.00	100%					
17	✓	Plan project cost	27 days	Sat 13/05/23	Mon 19/06/23		21,600.00	100%					
18	✓	Estimate costs	5 days	Sat 13/05/23	Thu 18/05/23	Tefaf Alharbi	4,000.00	100%					
19	✓	Determine budget	15 days	Fri 19/05/23	Thu 08/06/23	Sama Khalid	12,000.00	100%					
20	✓	Plan project quality	7 days	Fri 09/06/23	Mon 19/06/23	Abdullah Alharbi	5,600.00	100%					
21	✓	Determine project resources	28 days	Tue 23/05/23	Thu 29/06/23		22,400.00	100%					
22	✓	Estimate activity resources	8 days	Tue 23/05/23	Thu 01/06/23	Ghada Yusef	6,400.00	100%					
23	✓	Identify risks	5 days	Thu 01/06/23	Wed 07/06/23	Razan Albeshri	4,000.00	100%					
24	✓	Prioritize risks	7 days	Thu 08/06/23	Fri 16/06/23	Abdullah Alharbi	5,600.00	100%					
25	✓	Perform qualitative risk analysis	3 days	Fri 16/06/23	Tue 20/06/23	Sama Khalid	2,400.00	100%					
26	✓	Plan risk responses	5 days	Tue 20/06/23	Mon 26/06/23	Tefaf Alharbi	4,000.00	100%					
27	✓	Executing	19 days	Tue 30/05/23	Fri 23/06/23		19,200.00	100%					
28	✓	Data collection and questionnaire	2 days	Tue 30/05/23	Wed 31/05/23	Abdullah Alharbi	1,600.00	100%					
29	✓	User input	2 days	Thu 01/06/23	Fri 02/06/23	Tefaf Alharbi	1,600.00	100%					
30	✓	Direct and manage project work	5 days	Sat 03/06/23	Thu 08/06/23	Sama Khalid	4,000.00	100%					
31	✓	Manage project	5 days	Fri 08/06/23	Thu 15/06/23	Ghada Yusef	9,600.00	100%					

Ready New Tasks : Manually Scheduled

EE/V/T ENG Q 28°C

Gantt Chart Tools Final Project - Project Professional Gadh.

File Task Resource Report Project View Help Gantt Chart Format Tell me what you want to do

Sort (No Highlight) Timescale: Zoom Timeline [7] Days Entire Project Details Outline (No Filter) Tables (No Group)

Resource Usage Resource Sheet Team Planner Other Views Gantt Chart Wizard Ghada's Group

Gantt Chart Task Usage Task Views Resource Views Data Zoom Split View Window Macros Ghada's Group

Task Mode Task Name Duration Start Finish Resource Names Cost % Complete Add A Oct '23 01 08 15

GANTT CHART

Task ID	Task Name	Duration	Start Date	Finish Date	Resource Names	Cost	% Complete	Add A	Oct '23	01	08	15
27	Executing	19 days	Tue 30/05/23	Fri 23/06/23		19,200.00 .ر.س.ج	100%					
28	Data collection and questionnaire	2 days	Tue 30/05/23	Wed 31/05/23	Abdullah Alharbi	1,600.00 .ر.س.ج	100%					
29	User input	2 days	Thu 01/06/23	Fri 02/06/23	Tearf Alharbi	1,600.00 .ر.س.ج	100%					
30	Direct and manage project work	5 days	Sat 03/06/23	Thu 08/06/23	Sama Khalid	4,000.00 .ر.س.ج	100%					
31	Manage project knowledge	5 days	Fri 09/06/23	Thu 15/06/23	Ghada Yusef; Razan Albeshri	8,000.00 .ر.س.ج	100%					
32	Manage project quality	5 days	Fri 16/06/23	Thu 22/06/23	Abdullah Alharbi	4,000.00 .ر.س.ج	100%					
33	Acquire resources	17 days	Sat 24/06/23	Mon 17/07/23		16,800.00 .ر.س.ج	100%					
34	Develop team	6 days	Sat 24/06/23	Fri 30/06/23	Mohammed Alhur	4,800.00 .ر.س.ج	100%					
35	Manage team	5 days	Sat 01/07/23	Thu 06/07/23	Razan Albeshri	4,000.00 .ر.س.ج	100%					
36	Implement risk responses	4 days	Fri 07/07/23	Wed 12/07/23	Abdullah Alharbi; Ghada Yusef	6,400.00 .ر.س.ج	100%					
37	Update planning documents and change requests	2 days	Thu 13/07/23	Fri 14/07/23	Ghada Yusef	1,600.00 .ر.س.ج	100%					
38	Application content	62 days	Tue 18/07/23	Wed 11/10/23		52,800.00 .ر.س.ج	100%					
39	Templates and tools	4 days	Tue 18/07/23	Fri 21/07/23	Abdullah Alharbi; Razan Albeshri	6,400.00 .ر.س.ج	100%					
40	Services	3 days	Sat 22/07/23	Tue 25/07/23	Razan Albeshri	2,400.00 .ر.س.ج	100%					
41	User requests feature	2 days	Tue 25/07/23	Wed 26/07/23	Sama Khalid	1,600.00 .ر.س.ج	100%					
42	Application design	12 days	Wed 26/07/23	Thu 10/08/23	Abdullah Alharbi	9,600.00 .ر.س.ج	100%					
43	Application	15 days	Thu 10/08/23	Wed 15/09/23	Ghada Yusef	12,000.00 .ر.س.ج	100%					

Ready New Tasks : Manually Scheduled

Gantt Chart Tools Final Project - Project Professional Gadh.

File Task Resource Report Project View Help Gantt Chart Format Tell me what you want to do

Sort (No Highlight) Timescale: Zoom Timeline [7] Days Entire Project Details Outline (No Filter) Tables (No Group)

Resource Usage Resource Sheet Team Planner Other Views Gantt Chart Wizard Ghada's Group

Gantt Chart Task Usage Task Views Resource Views Data Zoom Split View Window Macros Ghada's Group

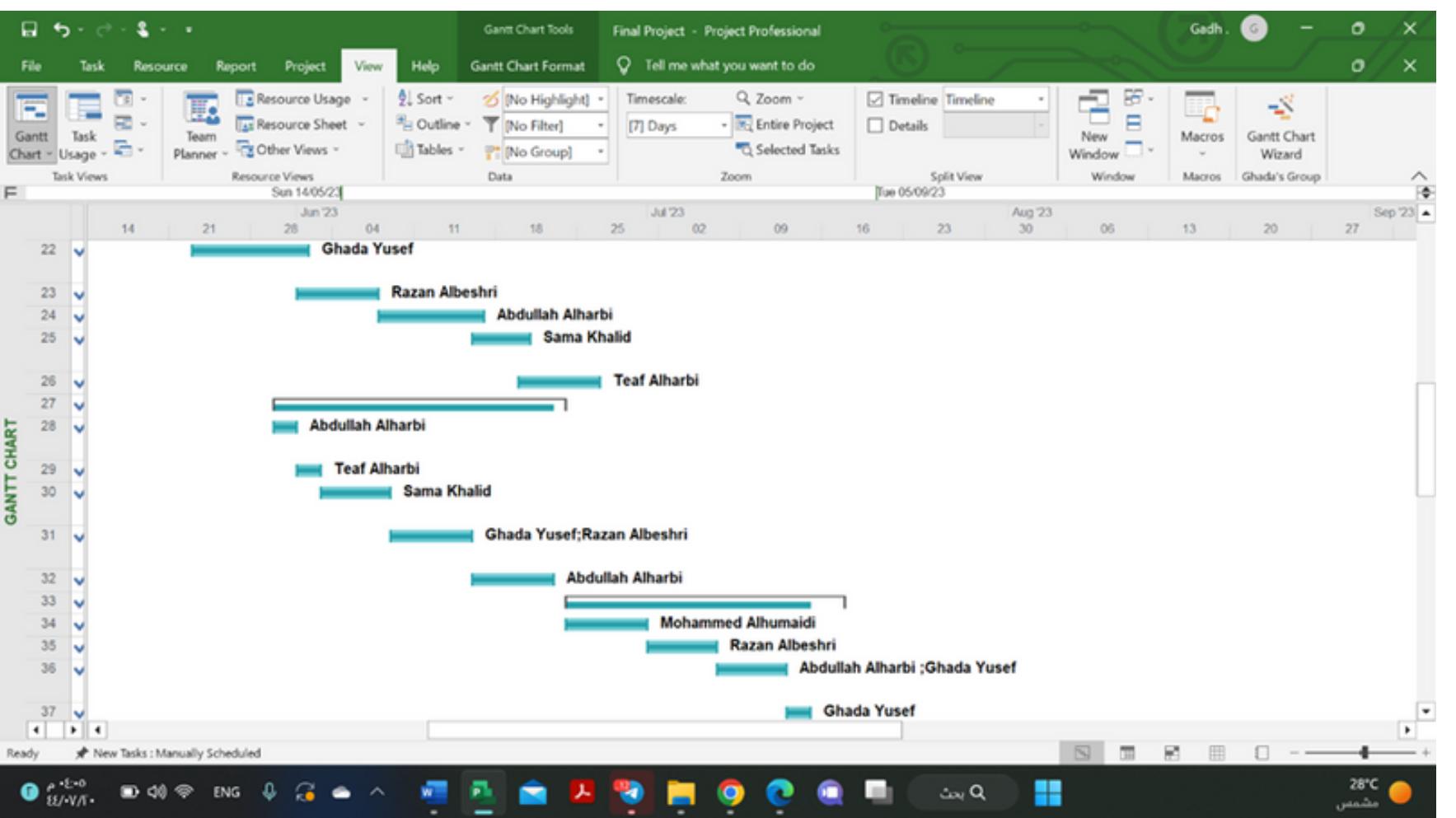
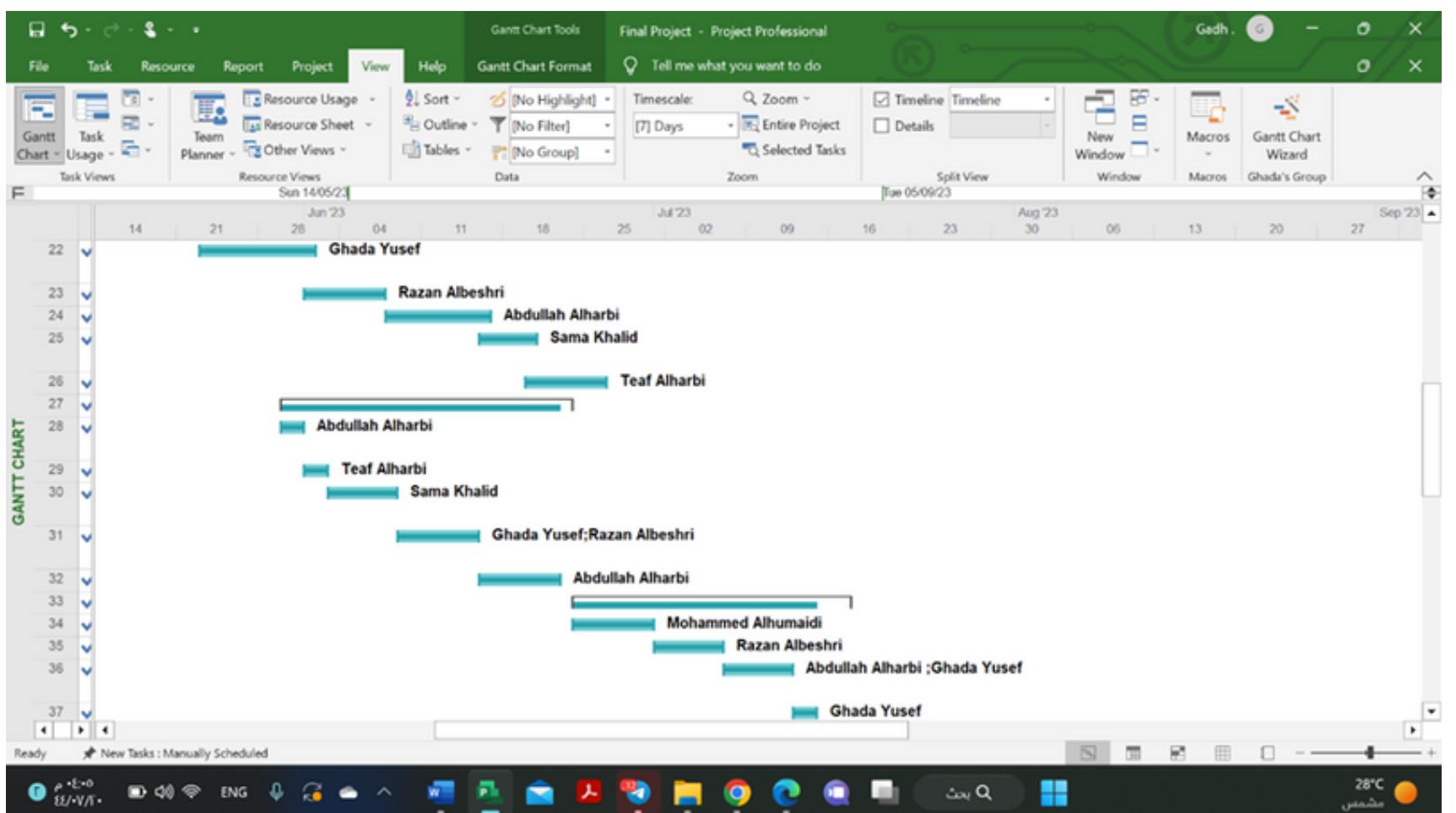
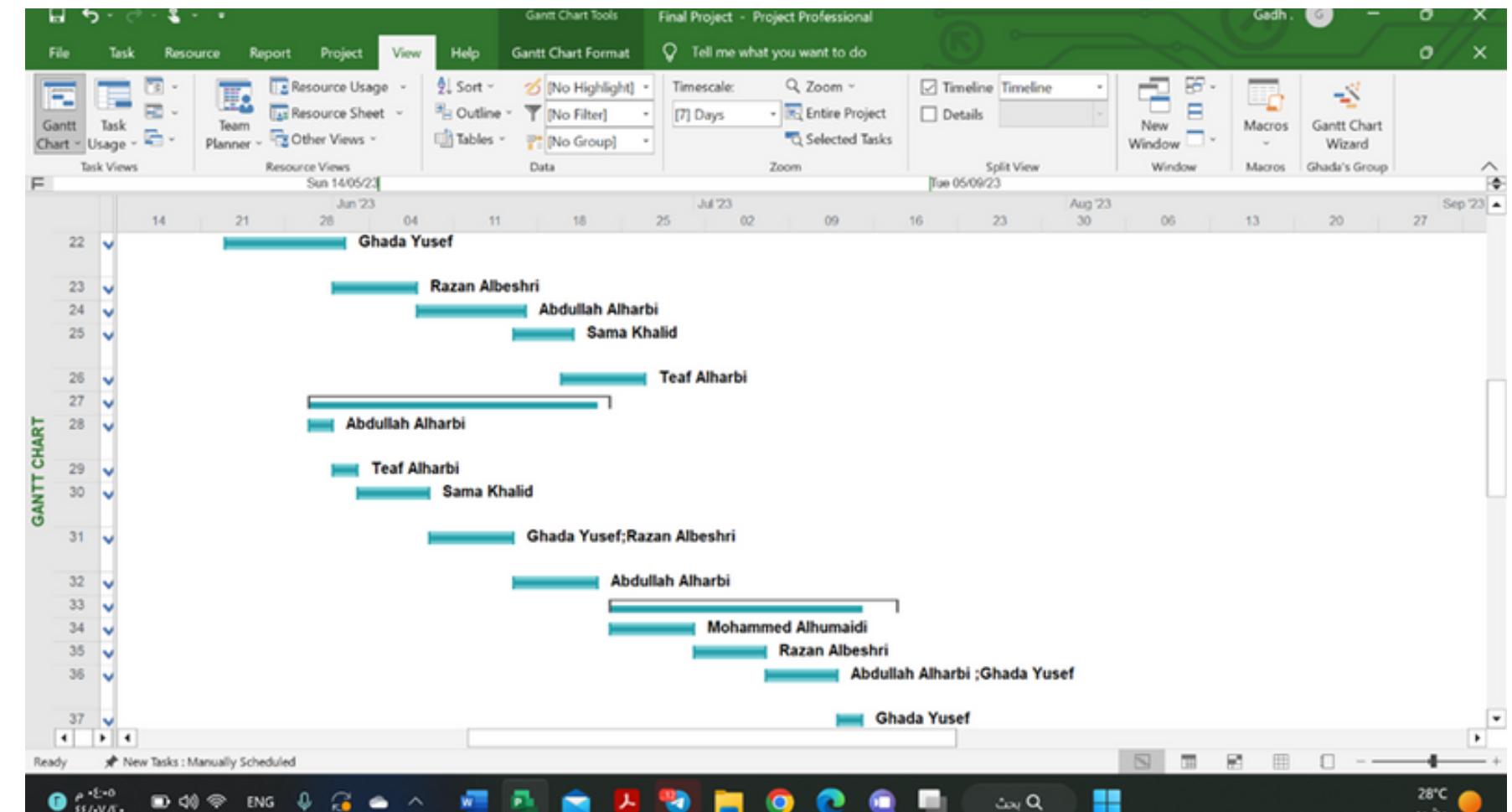
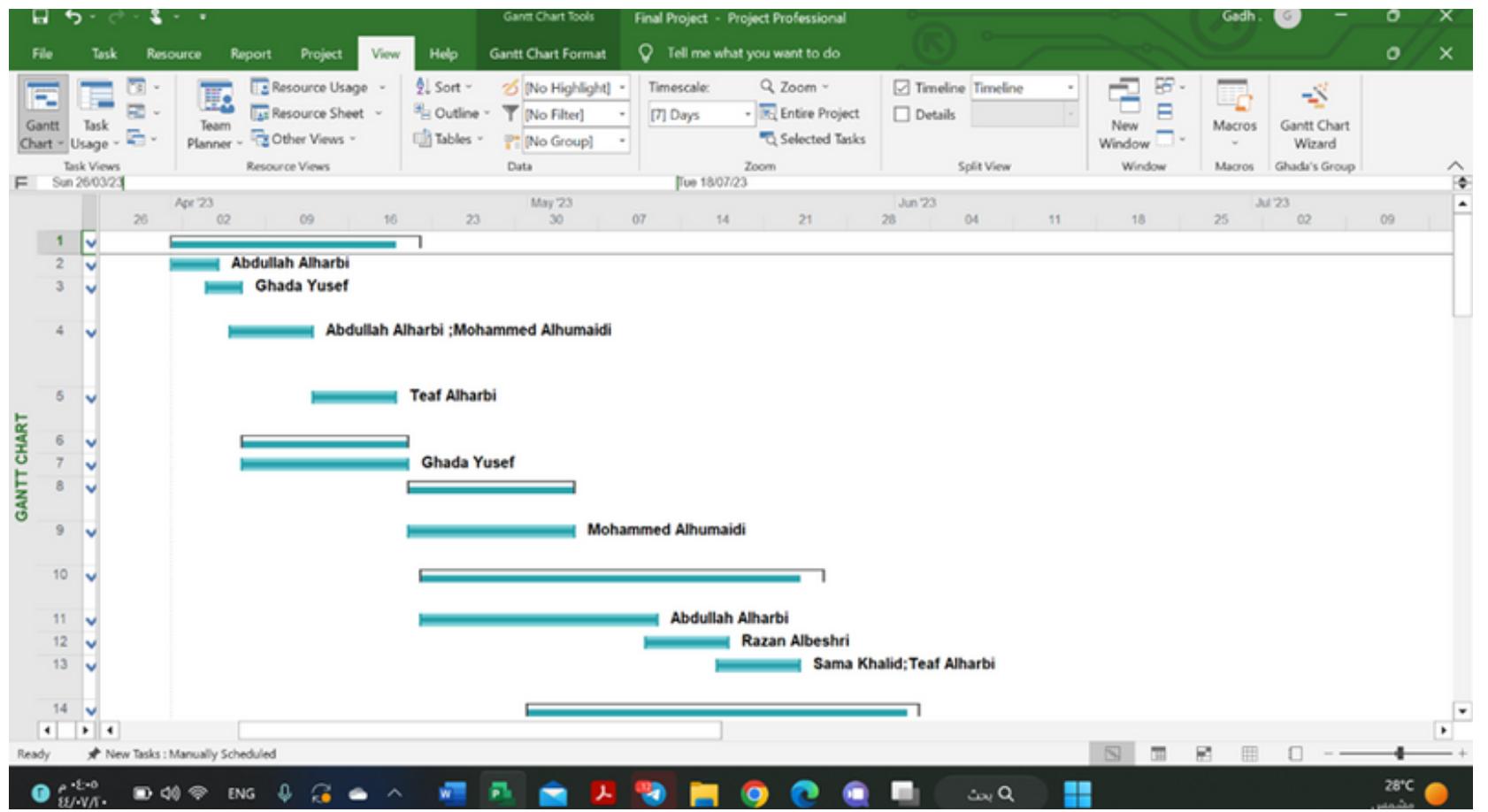
Task Mode Task Name Duration Start Finish Resource Names Cost % Complete Add A Oct '23 01 08 15

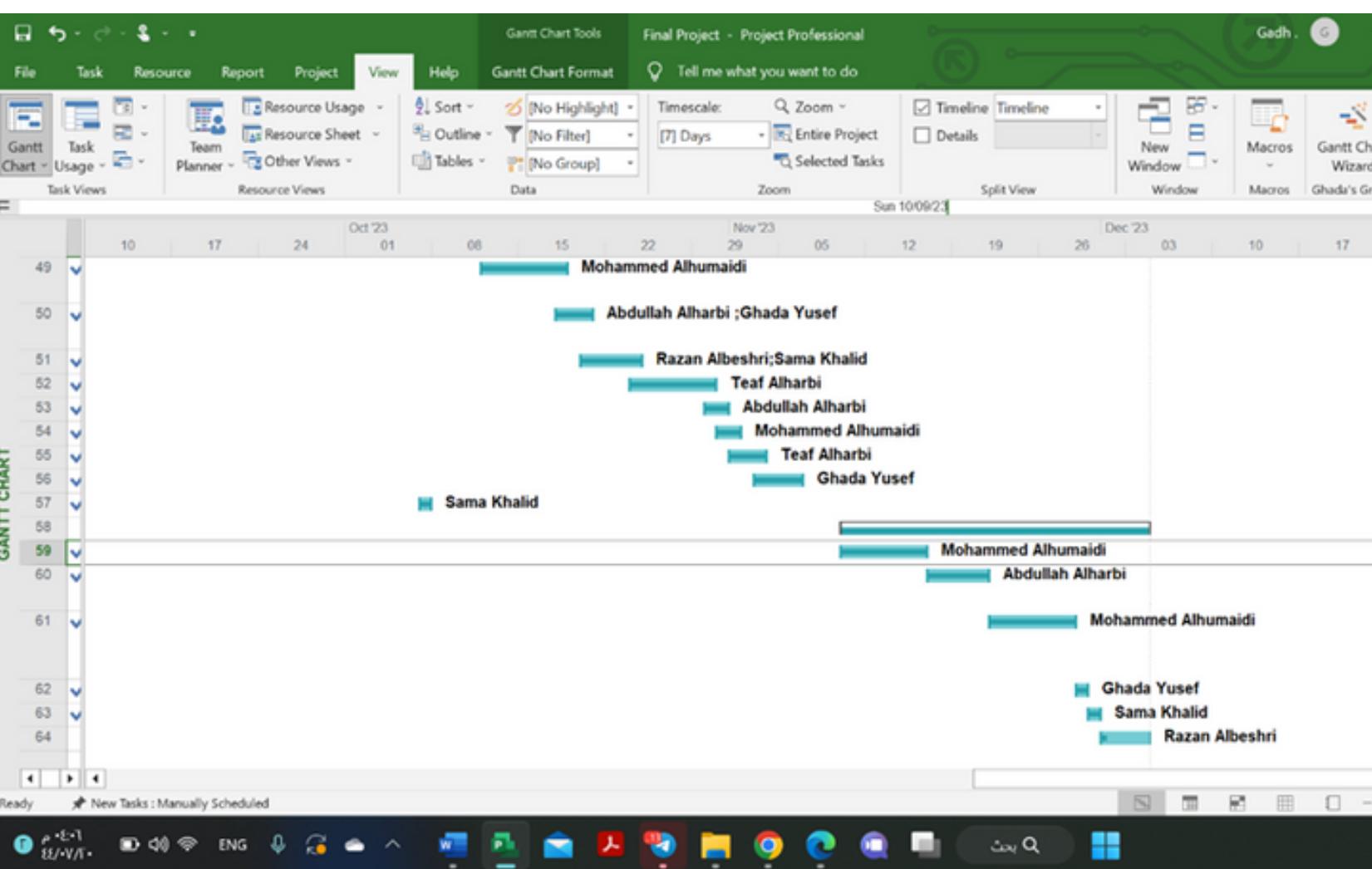
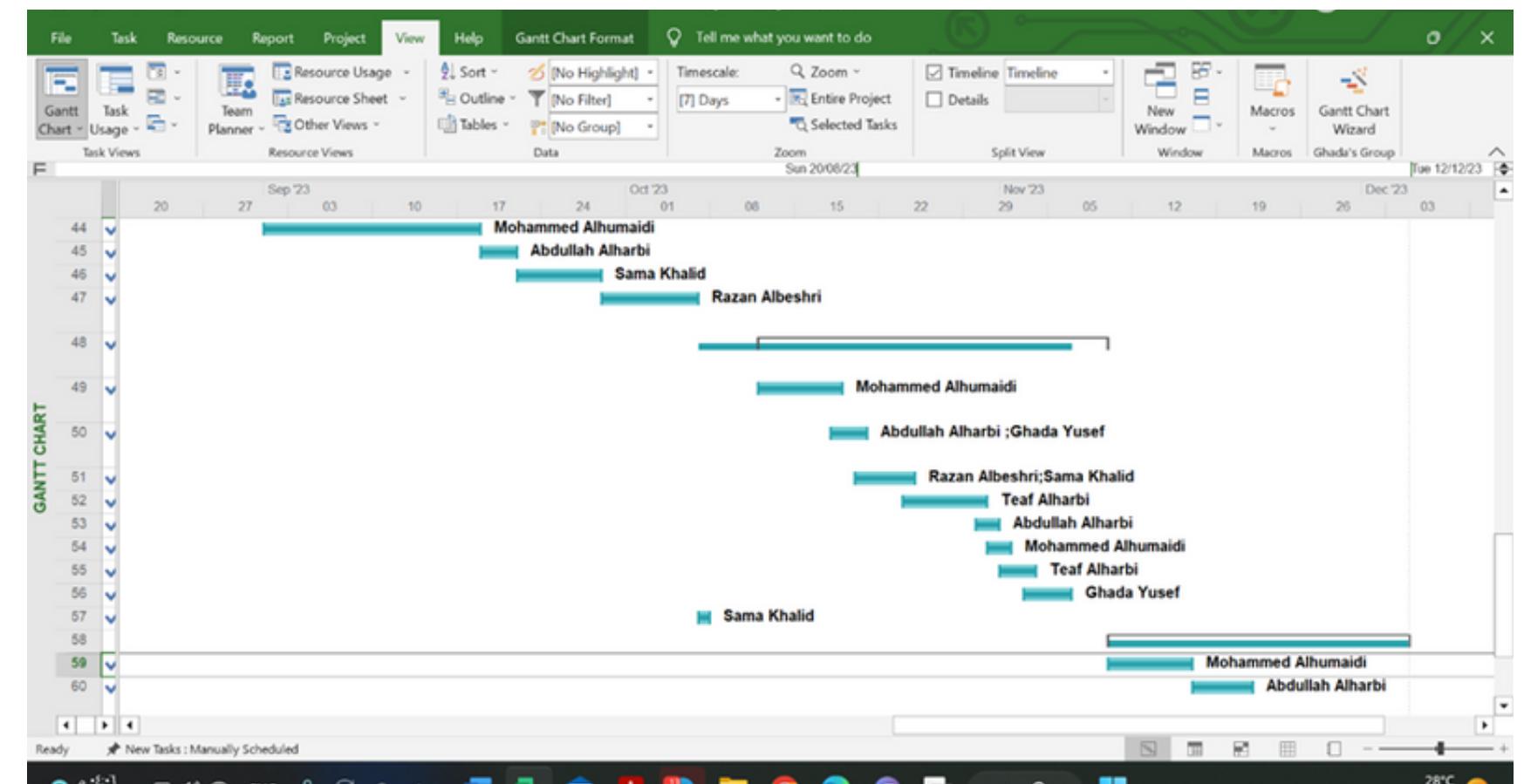
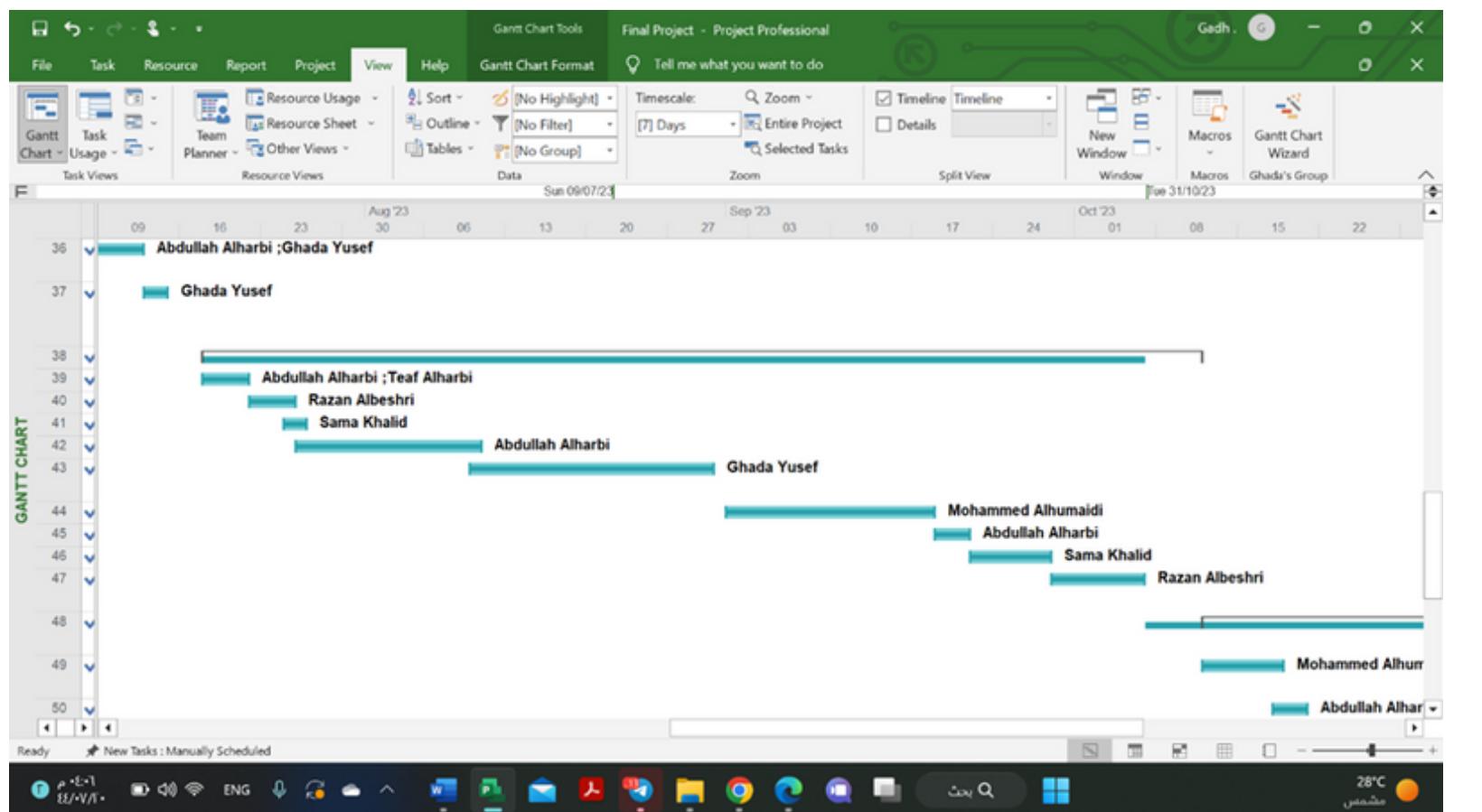
GANTT CHART

Task ID	Task Name	Duration	Start Date	Finish Date	Resource Names	Cost	% Complete	Add A	Oct '23	01	08	15
48	Monitoring and controlling	21 days	Thu 12/10/23	Thu 09/11/23		25,600.00 .ر.س.ج	100%					
49	Perform integrated change control	5 days	Thu 12/10/23	Wed 18/10/23	Mohammed Alhumaidi	4,000.00 .ر.س.ج	100%					
50	Validate and control scope	3 days	Wed 18/10/23	Fri 20/10/23	Abdullah Alharbi; Ghada Yusef	4,800.00 .ر.س.ج	100%					
51	Control schedule	3 days	Fri 20/10/23	Tue 24/10/23	Razan Albeshri; Sar	4,800.00 .ر.س.ج	100%					
52	Control costs	5 days	Tue 24/10/23	Mon 30/10/23	Tearf Alharbi	4,000.00 .ر.س.ج	100%					
53	Control quality	2 days	Mon 30/10/23	Tue 31/10/23	Abdullah Alharbi	1,600.00 .ر.س.ج	100%					
54	Control resources	2 days	Tue 31/10/23	Wed 01/11/23	Mohammed Alhur	1,600.00 .ر.س.ج	100%					
55	Monitor risks	3 days	Wed 01/11/23	Fri 03/11/23	Tearf Alharbi	2,400.00 .ر.س.ج	100%					
56	Change requests	2 days	Fri 03/11/23	Mon 06/11/23	Ghada Yusef	1,600.00 .ر.س.ج	100%					
57	Performance reports	1 day	Sat 07/10/23	Sat 07/10/23	Sama Khalid	800.00 .ر.س.ج	100%					
58	Closing	17 days	Fri 10/11/23	Mon 04/12/23		13,600.00 .ر.س.ج	90%					
59	Prepare final project fil	5 days	Fri 10/11/23	Thu 16/11/23	Mohammed Alhur	4,000.00 .ر.س.ج	100%					
60	Prepare final project presentation	3 days	Fri 17/11/23	Tue 21/11/23	Abdullah Alharbi	2,400.00 .ر.س.ج	100%					
61	Gain stakeholders and customers' acceptance	5 days	Wed 22/11/23	Tue 28/11/23	Mohammed Alhumaidi	4,000.00 .ر.س.ج	100%					
62	Customer training	1 day	Wed 29/11/23	Wed 29/11/23	Ghada Yusef	800.00 .ر.س.ج	100%					
63	Lessons learned	1 day	Thu 30/11/23	Thu 30/11/23	Sama Khalid	800.00 .ر.س.ج	100%					
64	Close project	2 days	Fri 01/12/23	Mon 04/12/23	Razan Albeshri	1,600.00 .ر.س.ج	15%					

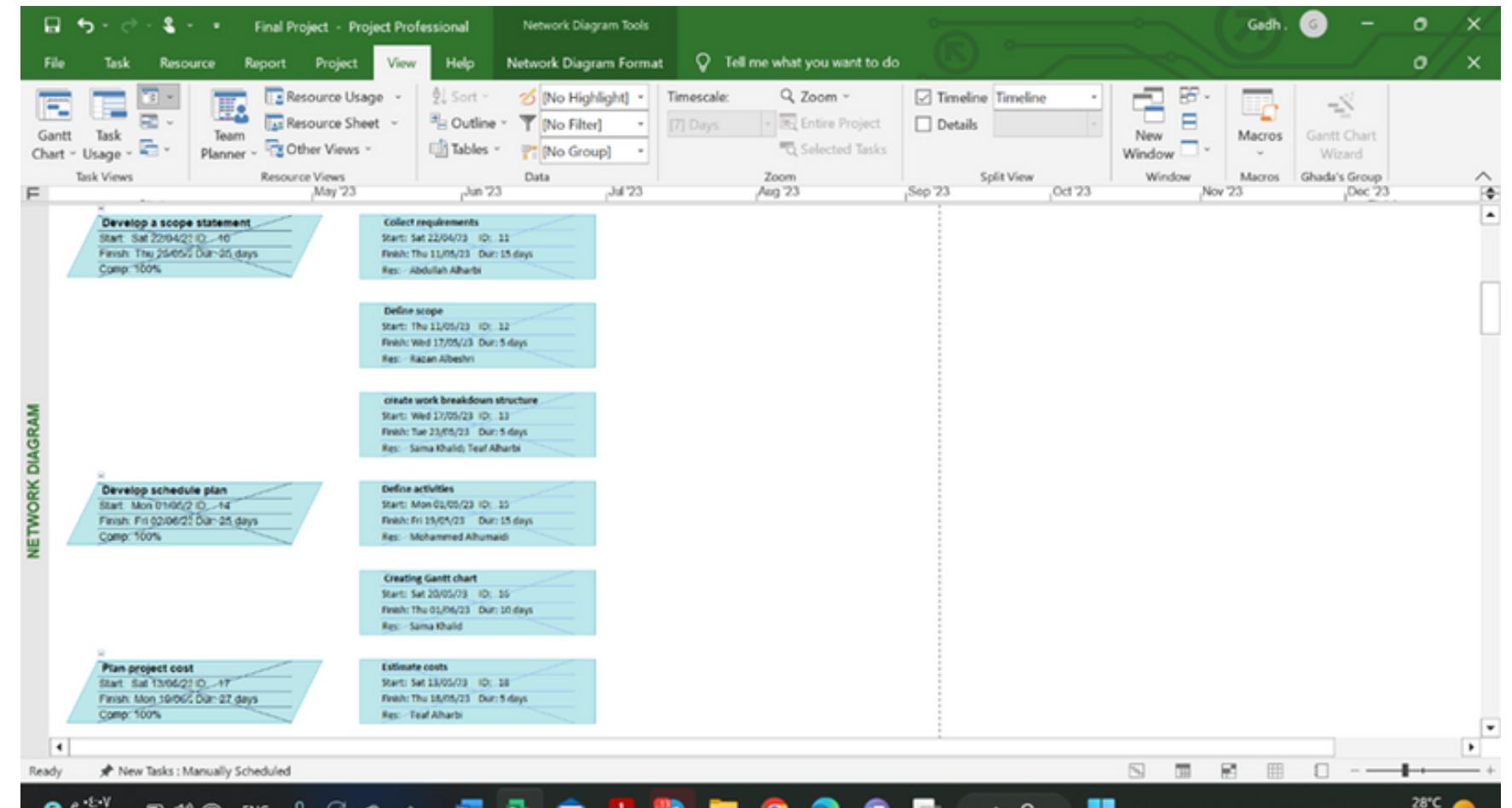
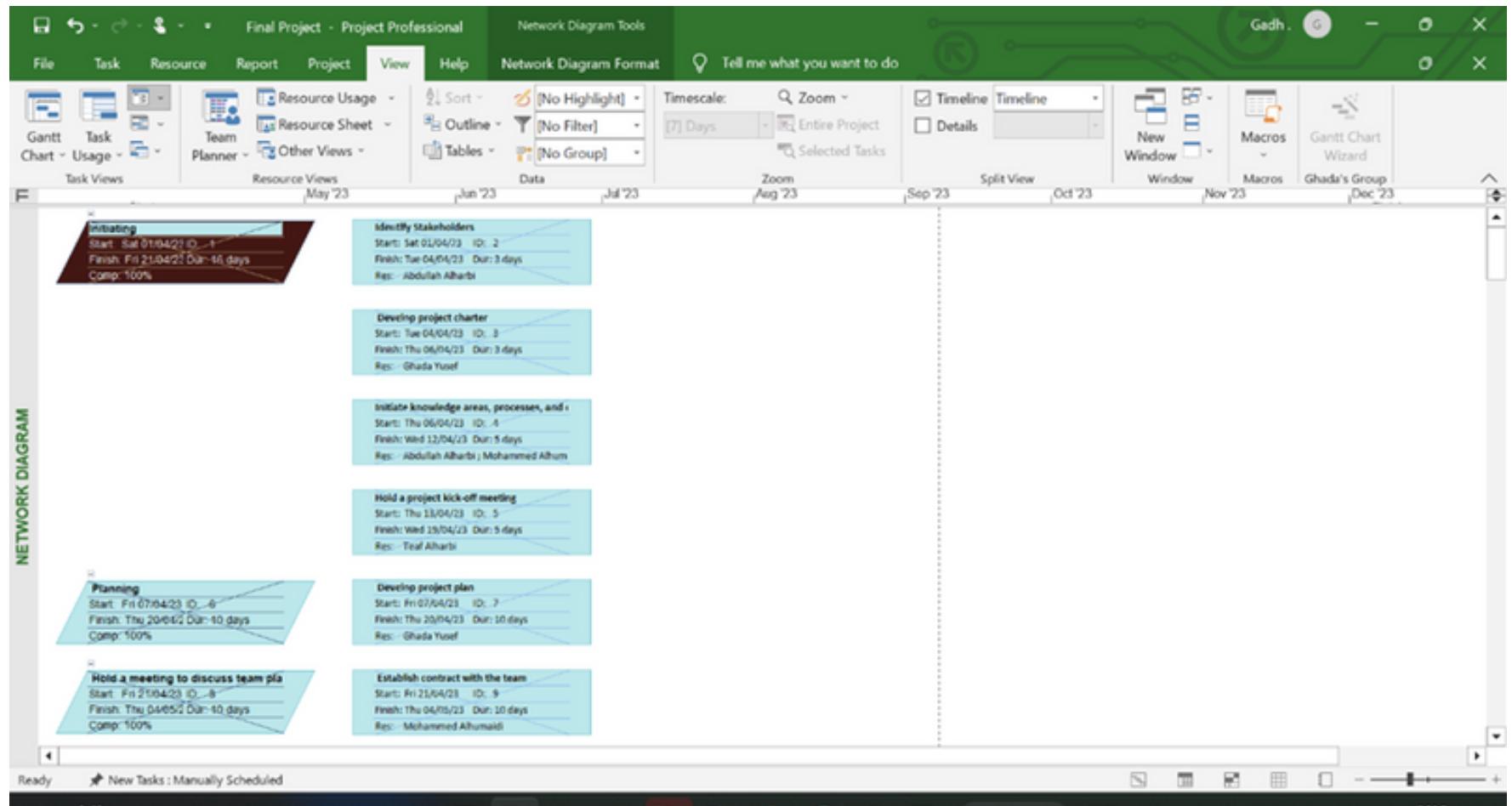
Ready New Tasks : Manually Scheduled

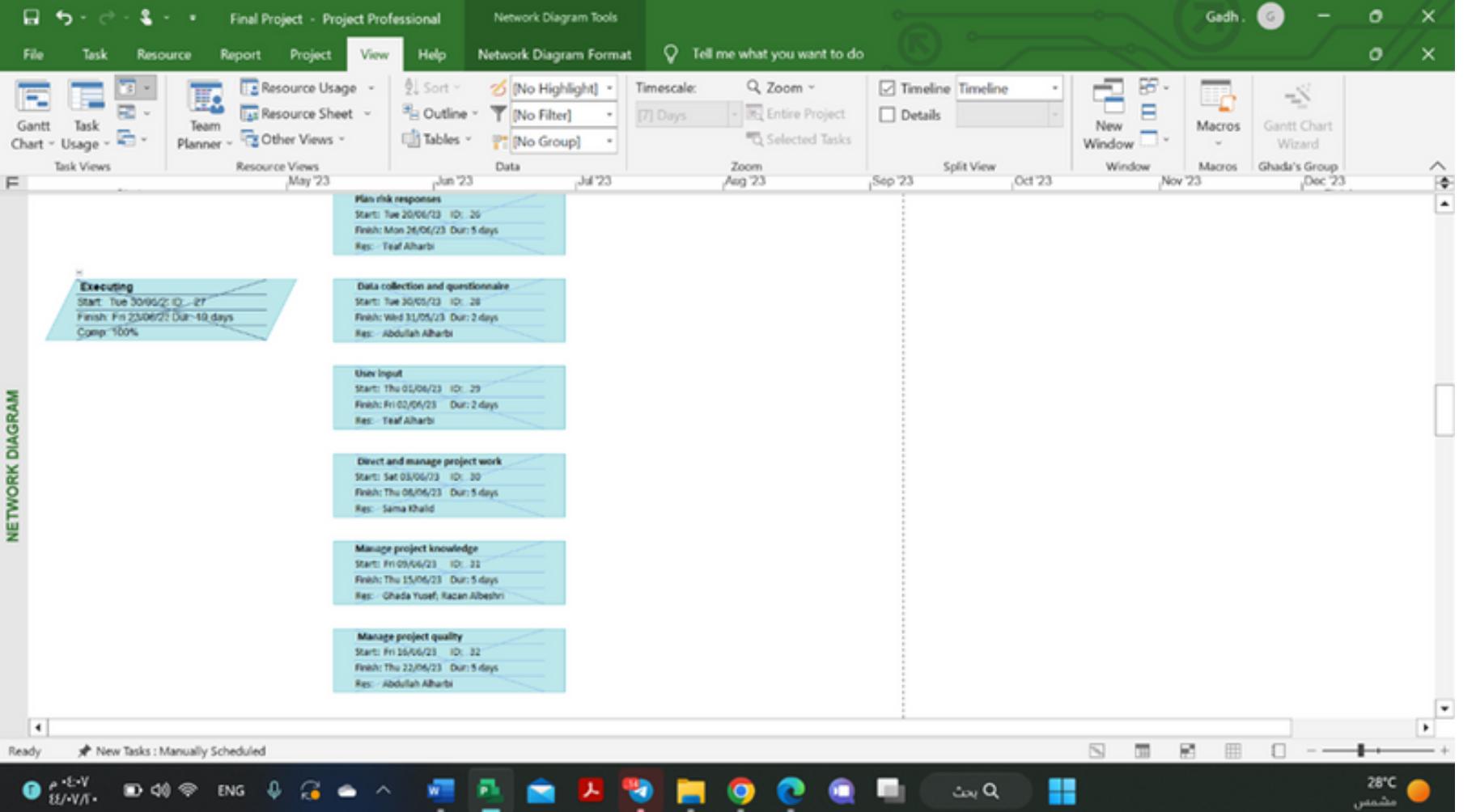
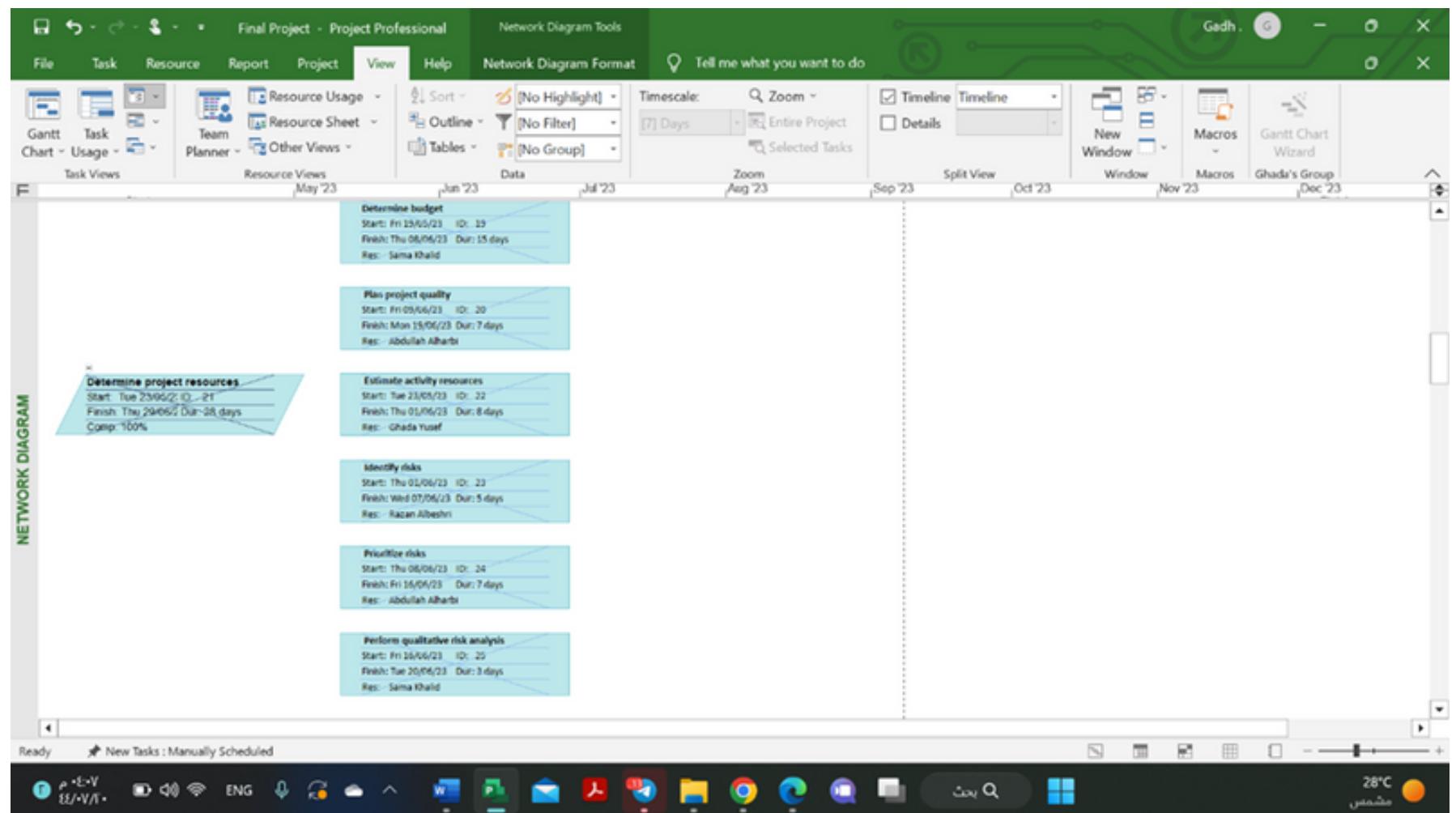
Gantt Chart

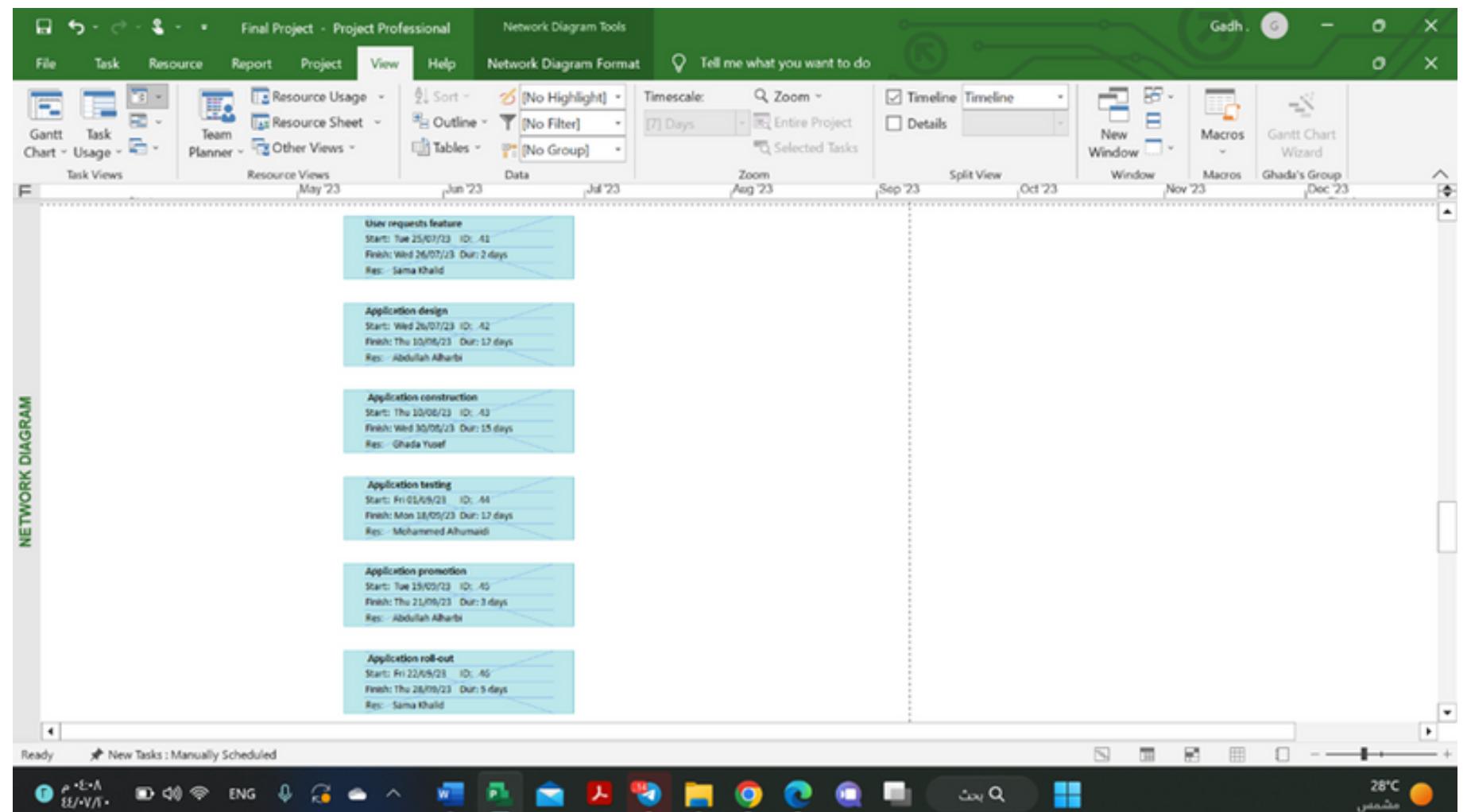
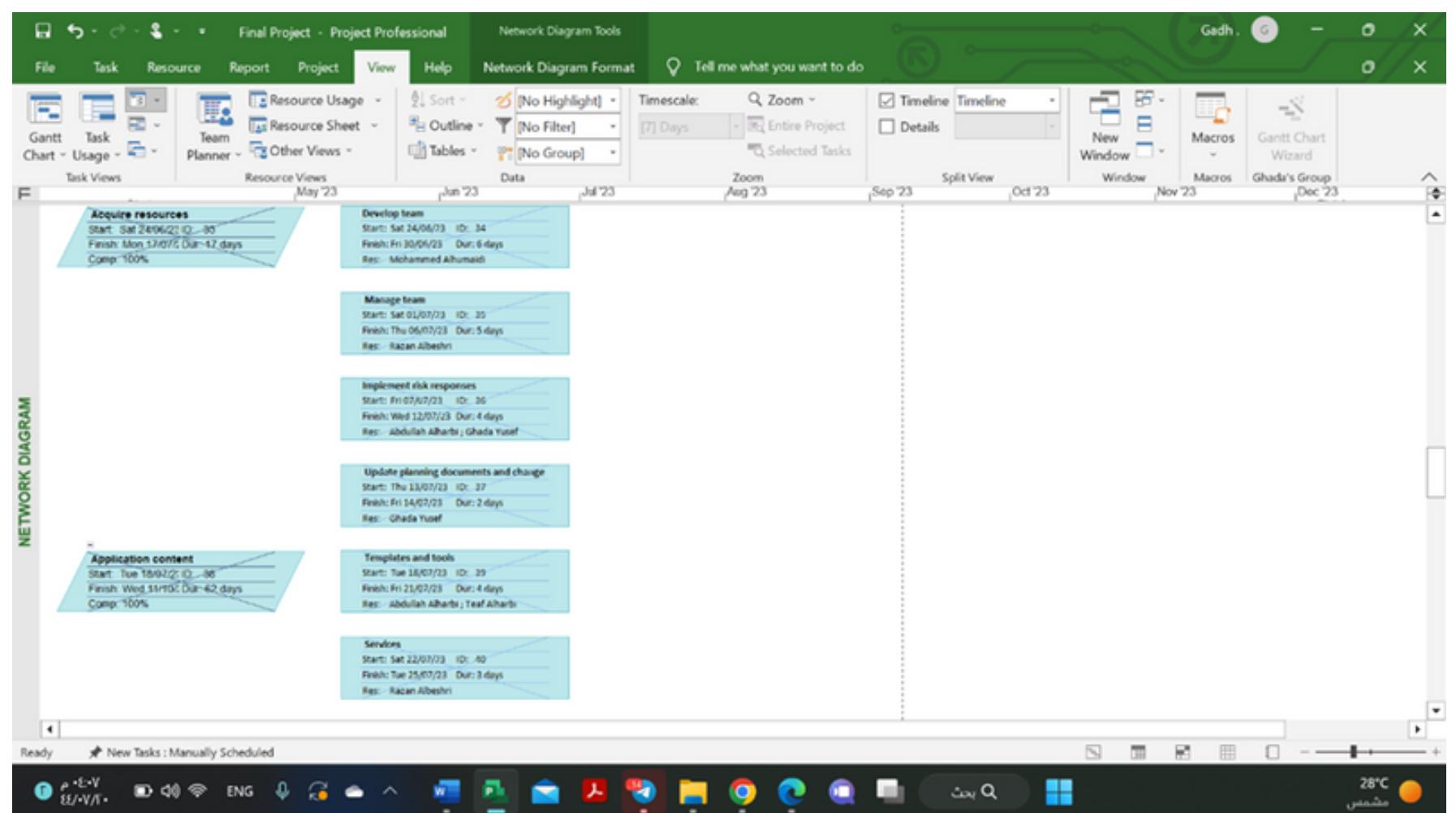


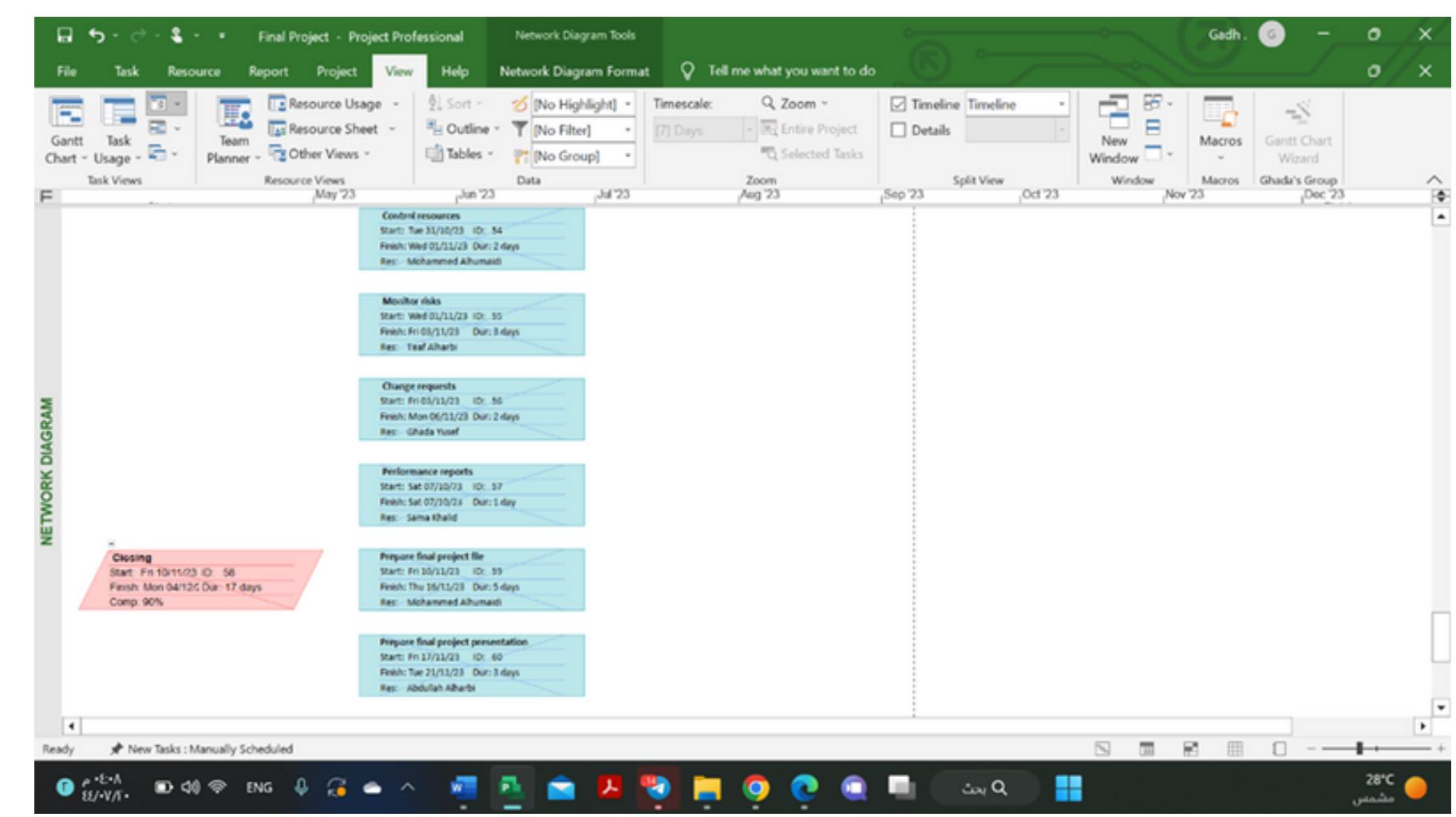
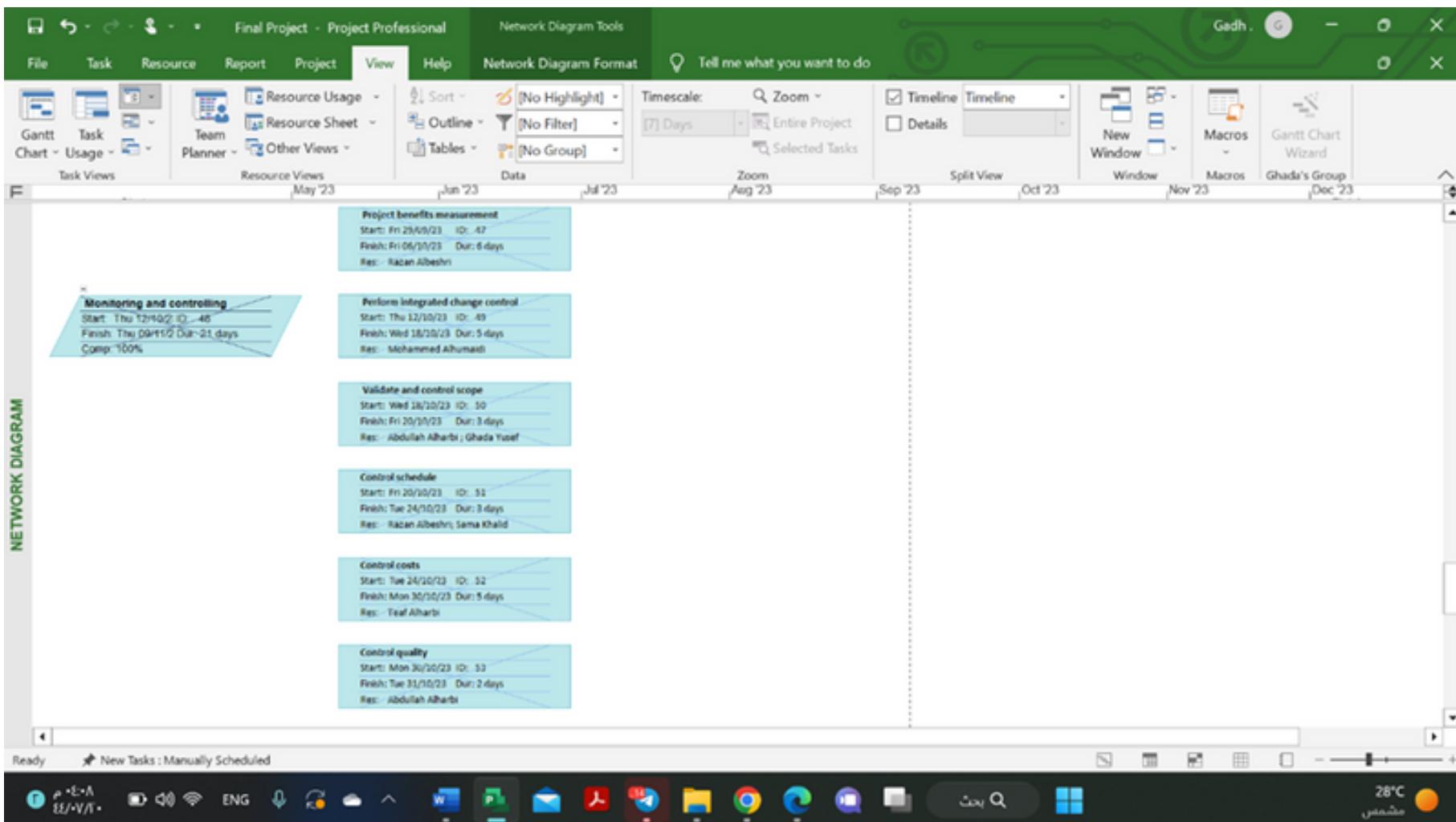


Network Diagram









Resource sheet



Final Project - Project Professional

Resource Sheet Tools

Gadh. 0

File Task Resource Report Project View Help Resource Sheet Format

Resource Usage - Sort - (No Highlight) - Timeline Timeline

Gantt Task Team Resource Sheet - Outline - (No Filter) - Details

Chart Usage - Planner - Other Views - Tables - (No Group) - Zoom - Days Entire Project

Task Views Resource Views Data

Zoom Split View

New Window Macros Gantt Chart Wizard

Other Views -

Start Sat 01/04/23 Finish Mon 04/12/23

Add tasks with dates to the timeline

Resource Name Type Material Initials Group Max. Std. Rate Ovt. Rate Cost/Use Accrue Base Code Add New

	Resource Name	Type	Material	Initials	Group	Max.	Std. Rate	Ovt. Rate	Cost/Use	Accrue	Base	Code	Add New
1	Abdullah Alharbi	Work		A		100%	100.00 ر.س./hr	0.00 ر.س./hr	0.00 ر.س.	Prorated	Standard		
2	Razan Albeshri	Work		R		100%	100.00 ر.س./hr	200.00 ر.س./hr	0.00 ر.س.	Prorated	Standard		
3	Ghada Yusef	Work		G		100%	100.00 ر.س./hr	0.00 ر.س./hr	0.00 ر.س.	Prorated	Standard		
4	Tearf Alharbi	Work		T		100%	100.00 ر.س./hr	300.00 ر.س./hr	0.00 ر.س.	Prorated	Standard		
5	Mohammed Alhumaidi	Work		M		100%	100.00 ر.س./hr	0.00 ر.س./hr	0.00 ر.س.	Prorated	Standard		
6	Sama Khalid	Work		S		100%	100.00 ر.س./hr	0.00 ر.س./hr	0.00 ر.س.	Prorated	Standard		
7	medical equipment	Material		m			10,000.00 ر.س.		0.00 ر.س.	Prorated			
8	maintenance	Material		m			60,000.00 ر.س.		0.00 ر.س.	Prorated			
9	software and services	Material		s			20,000.00 ر.س.		0.00 ر.س.	Prorated			
10	offices	Material		o			70,000.00 ر.س.		0.00 ر.س.	Prorated			
11	devices	Work		d		100%	100,000.00 ر.س./hr	0.00 ر.س./hr	0.00 ر.س.	Prorated	Standard		

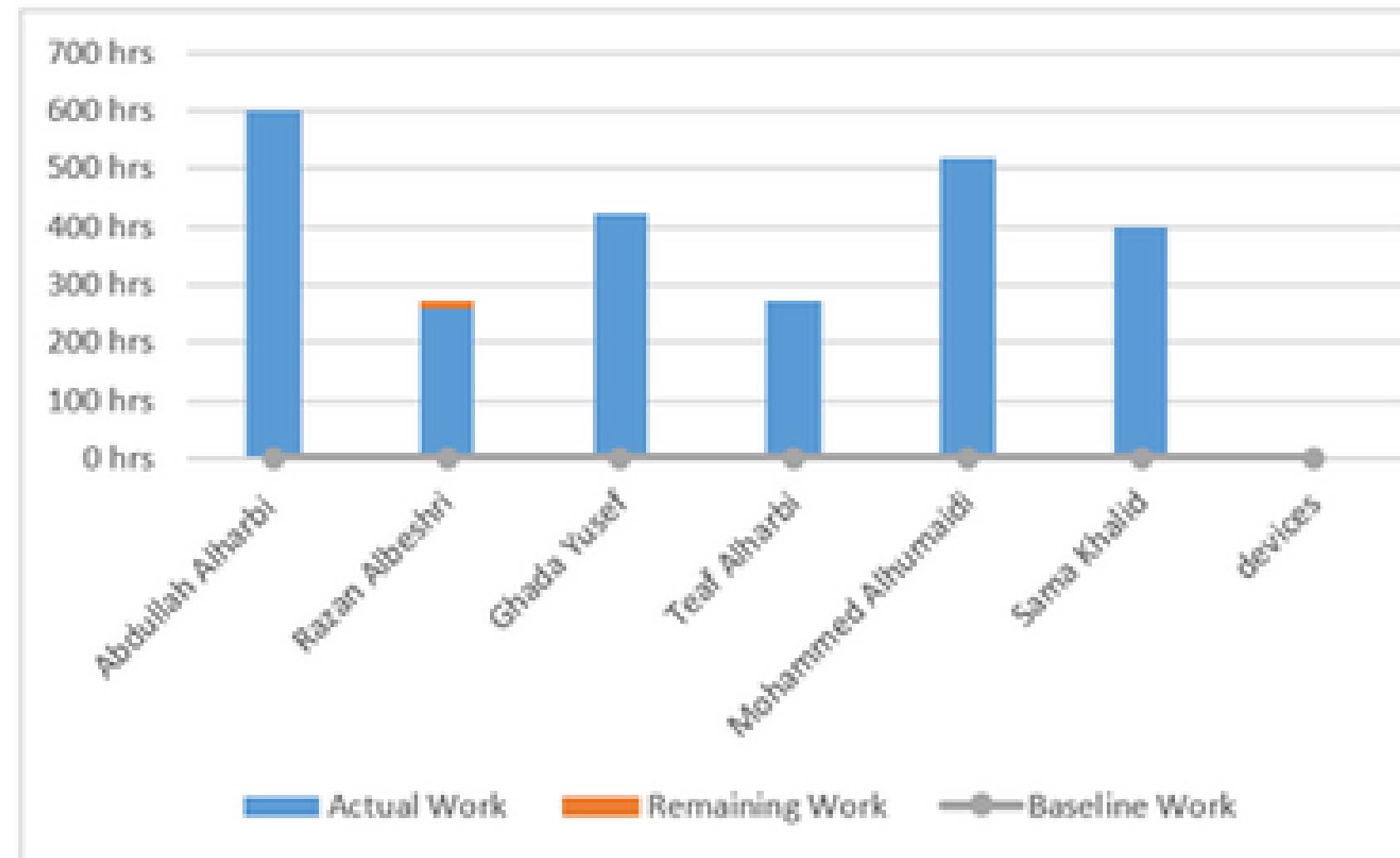
Ready New Tasks : Manually Scheduled

28°C

RESOURCE OVERVIEW

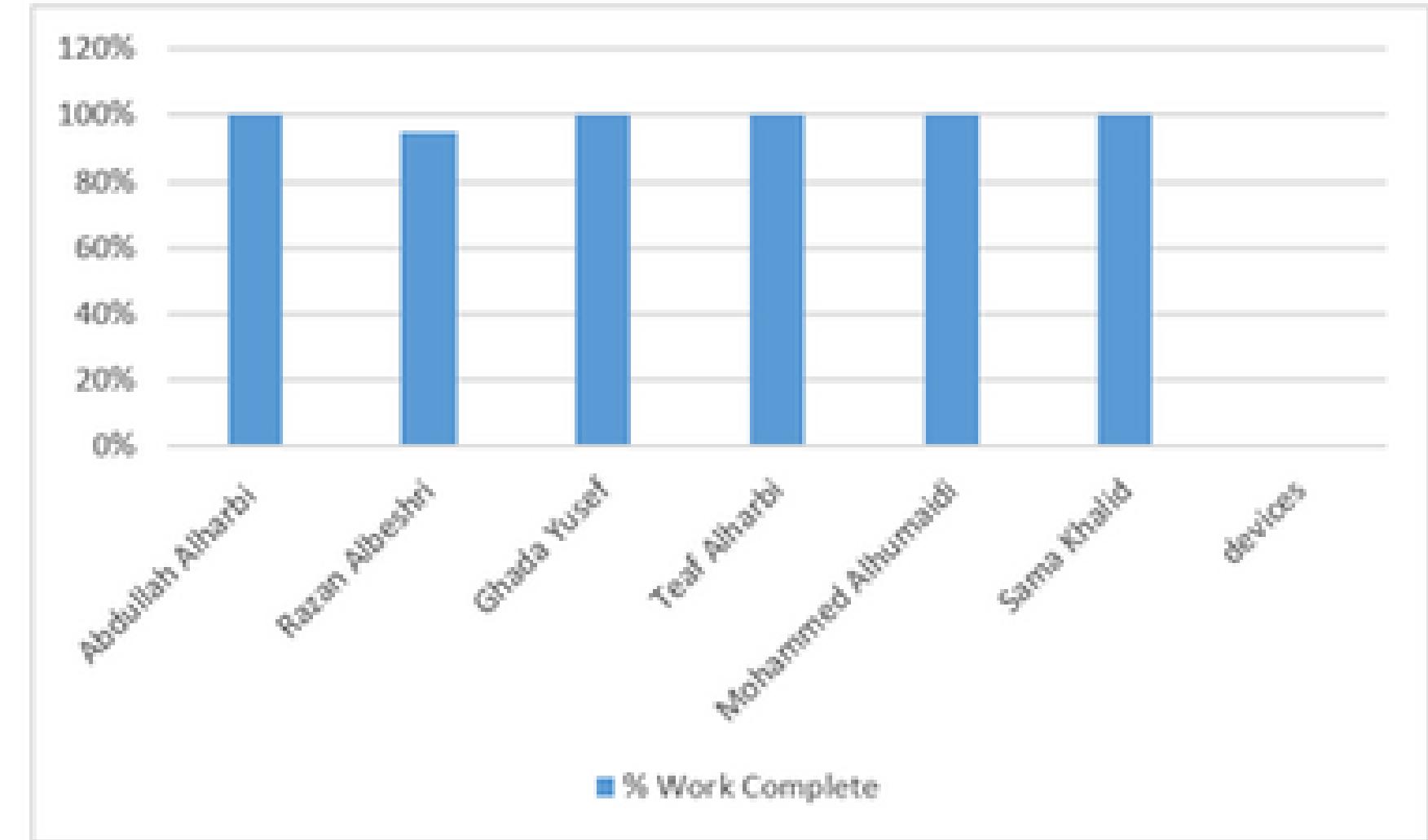
RESOURCE STATS

Work status for all work resources.



WORK STATUS

% work done by all the work resources.



Lessons learned and Experiences gained





Teamwork is the core of a project's success..

working as a team and having regular meetings gave us excellent communication, which made the processes in creating the project smoother and have less errors

Lack of expertise

There was a lack of expertise among us in the medical field, as none has worked on such a project before. But, this issue was tackled by contacting people in the field to clarify things as needed



Project challenges

Marketing the app to reach a wider audience
and a larger number and range of users.

Aiming to have more than the minimum 50%
of uj students as a user/customerbase



Future endeavors

To follow the latest trends in reservation systems.

To create a more intuitive/end-user based UI.

To create a more accessible UI for greater inclusiveness.



Prepared by:

Razan Albeshri

Taef Alharbi

Rogayah Garout

Ghada Alhumaidi

Sarah Haddad

Thank You!

