King Abdul-Aziz University
Faculty of Computing and Information Technology
Computer Science Department
Introduction to Software Project Management
CPIS-334 Fall 2023

Organ Donation Online System

Section: A2B

Group ID: Group-9-

Instructor: Dr. Aisha Alsobhi

Project Team:

Name	ID	Work Distribution	
Razan Arif Alamri		• Objectives • Organizational chart and histogram	• Project Charter • Detailed Project Schedule
Shatha Khalid Binmahfouz		• Purpose of the Project • Staffing Procedureand Plan	
Raghad Abdulrahman Nahari		• Scope Statement • Network Diagram	
Ebtihaj Mohammed Alnaqeb		• Goals • WBS • Major Project Milestones	

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Illustrations:

1. Purpose of the Project (Project Initiation)

Organ donation is the process when a person allows an organ of their own to be removed and transplanted to another person, legally, either by consent while the donor is alive or dead with the assent of the next of kin. According to the recommendations of the Saudi Ministry of Health brain dead people can donate these organs, and these organs include lung, liver, heart, kidneys, and pancreas. Also, living people can donate some organs, one kidney and part of the liver.

The reason of our project is to cooperate Saudi Centre for Organ Transplantation to facilitate the organ donation process from the beginning of the registration on the system until the completion of the organ donation process and encouraging people to donate to save the lives of others.

2. Goals and Objectives (Project Charter & Scope Statement)

The Goals of the application:

Our goal is to facilitate organ donation operations to save many souls, or to improve a recipient's health and quality of life. Also, we want to provide a secure system that works under government control to encourage individuals to donate organs and protect them from unauthorized websites.

The Objectives of the application:

- Create a database containing all the information of organ donors and recipients.
- The ability to send notifications to the recipient when a donor is available.
- Allow the donor to undo his donation at any time.
- Facilitate and enable donation and organ transplantation processes.
- Inform the donor of licensed health facilities and coordinate the system before conducting operations with the Saudi Organ Transplant Centre.

2.1. Project Charter

Project Title: Organ Donation Online System

Project Start Date: 1-9-2022   **Project Finish Date:** 22-1-2023

Budget Information: 250,000 SAR have been allocated for this project by the sponsor.

Project Manager:

Amal Naser Alharbi, (+966) 515138345, anaser-alharbi@gmail.com

Project Objectives:

Establishing and developing an online system that facilitates the donor, recipient and the Saudi Center for Organ Transplantation to achieve within a year of saving the lives of 15% of those in need of donation and spreading the culture of organ transplantation among the community in the Kingdom of Saudi Arabia.

Main Project Success Criteria:

The project manager must ensure that the project is achieved and balanced for the triple constraint to ensure the project's success:

- **Scope:** The project includes all requirements within the specific scope.

- **Time:** Complete the project on or before the January 22, 2023 deadline.

- **Cost:** Complete the project with a budget of 250,000 SAR or less.

Approach:

- For donors: The donor should register in the application, then he can click to make donation. After that, he should file out his health records.
- For patients: they can apply their needs of organs, and the system will notify them when having donors to complete the surgery procedures.
- For administrations: They can review donation applications and approve them or reject them after viewing the health profile -which is provided by the ministry of health -.
- After approving the donation application, the system must schedule a date for the operation coordinating with the hospitals.

Roles and Responsibilities (Stakeholder Register) :

Name	Role	Organization / Position	Contact Information
Amal Naser Alharbi	Project Manager	Management	(+966) 515xx8345
Huda Ali Alahmadi	Sponsor	CEO	(+966) 510xx9765
Nadeen Mohammed Alharbi	Programmer	Technical	(+966) 555xx3828
Hind Kalid Nahari	Analyst	Technical	(+966) 505xx3491
Eman Abdullah Alnahdi	Quality Control Engineer	Management	(+966) 555xx271
Lama Saleh Alzahrani	Database Developer	Technical	(+966) 540940xx5
Sama Majed Almazmomi	UI UX Specialist	Technical	(+966) 547xx0973
Nada Salem Binmahfouz	CO-Manager	Management	(+966) 54794zz58
Sara Sameer Alnajar	Financial Analyst	Management	(+966) 50549xxx1

Table 1: *Roles and Responsibilities*

2.2. Scope Statement

The requirement that we have collected in this project will work together to achieve the project objectives, by storing information and contacts of donors and patients in need of organ transplantation and hospitals where the donor donates, or the patient goes to get the donation.

3.Work Breakdown Structure (WBS)
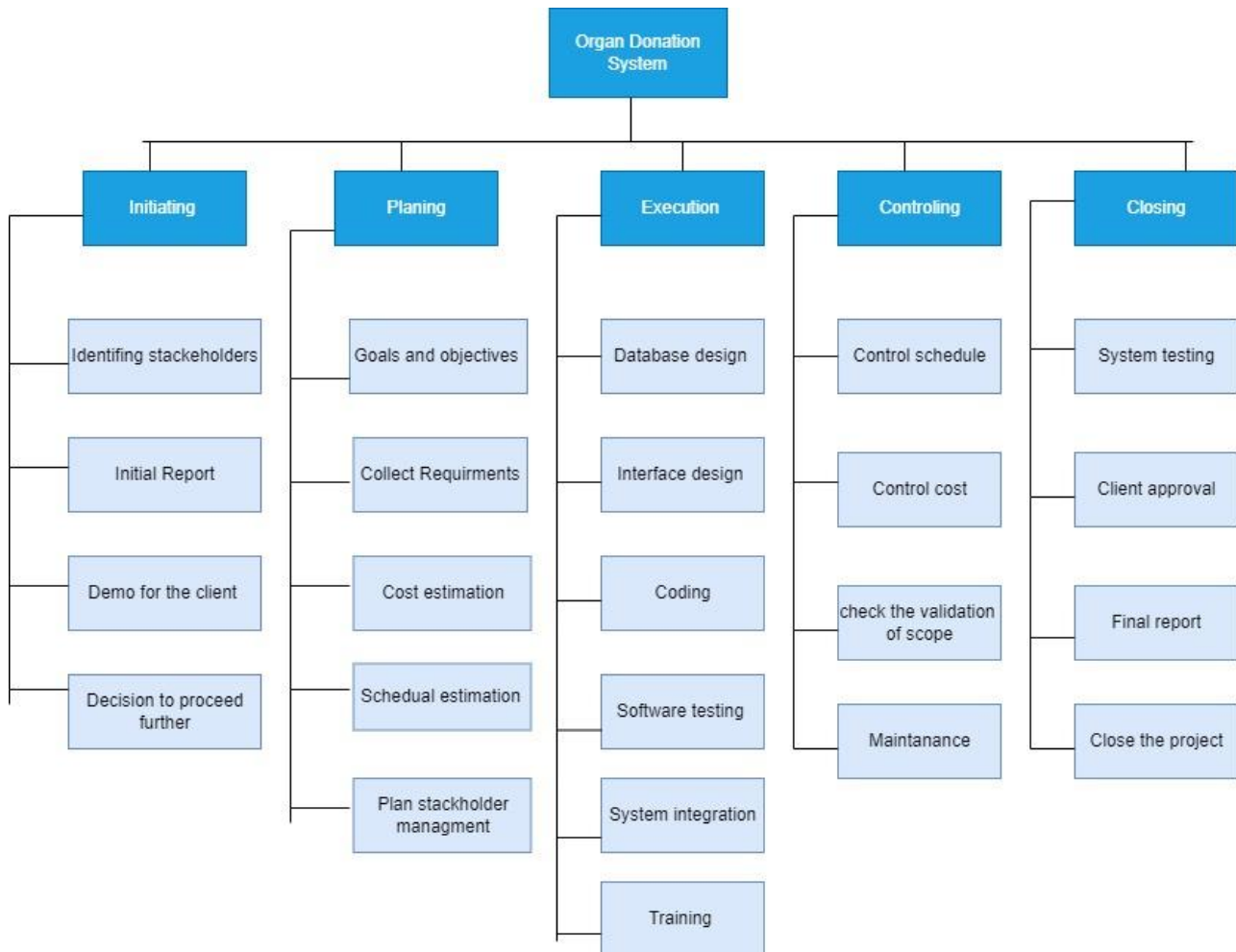
Figure 1: (WBS) for the system

4. Network Diagram:
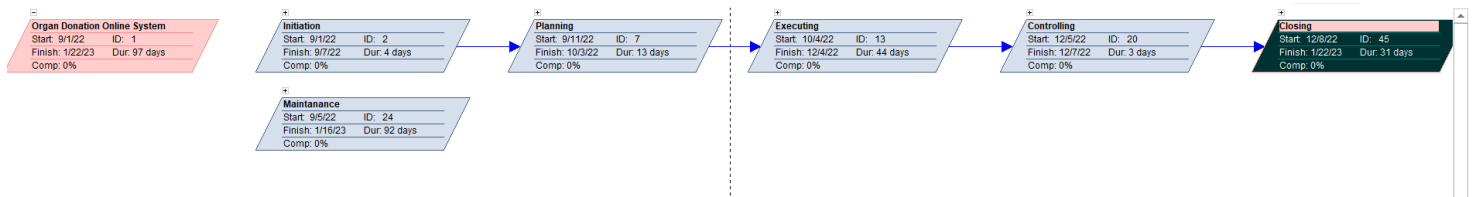
Figure 2: Sumary task network-digram
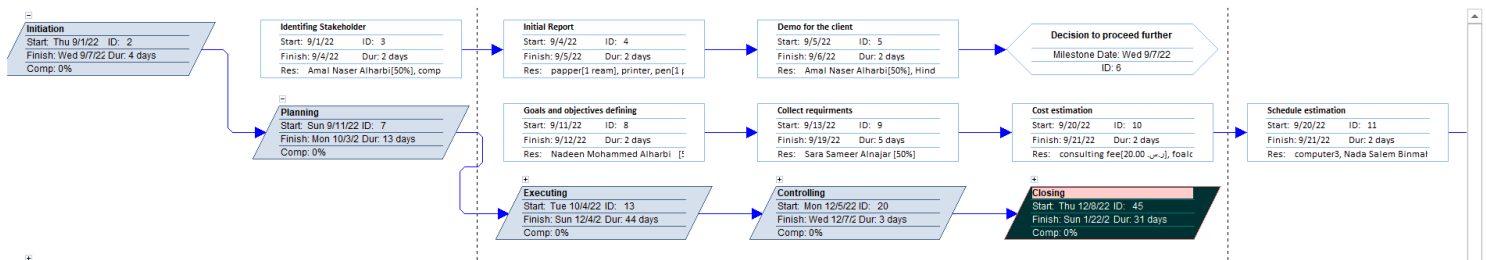
Figure 3: Initiation and planning phases sub-tasks
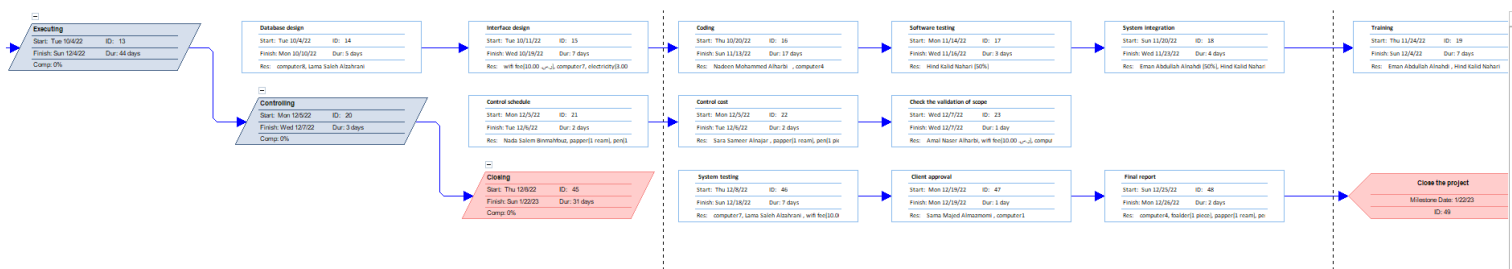
Figure 4: Excution ,controlling,and closing sub-tasks

5. Staffing Procedureand Plan(HR Management)

- Design and publish a job advertisement that includes all the requirements for a job offer.
- Start receiving and evaluating all CVs based on the job standards.
- Conducting interviews with all job candidates and determining if the applicant needs training.
- Send a job offer to the accepted applicants that includes salary, start date of work and all benefits.
- Signing the job contract and introducing the employees to the work environment.

6. Organizational chart and histogram (HR Management)
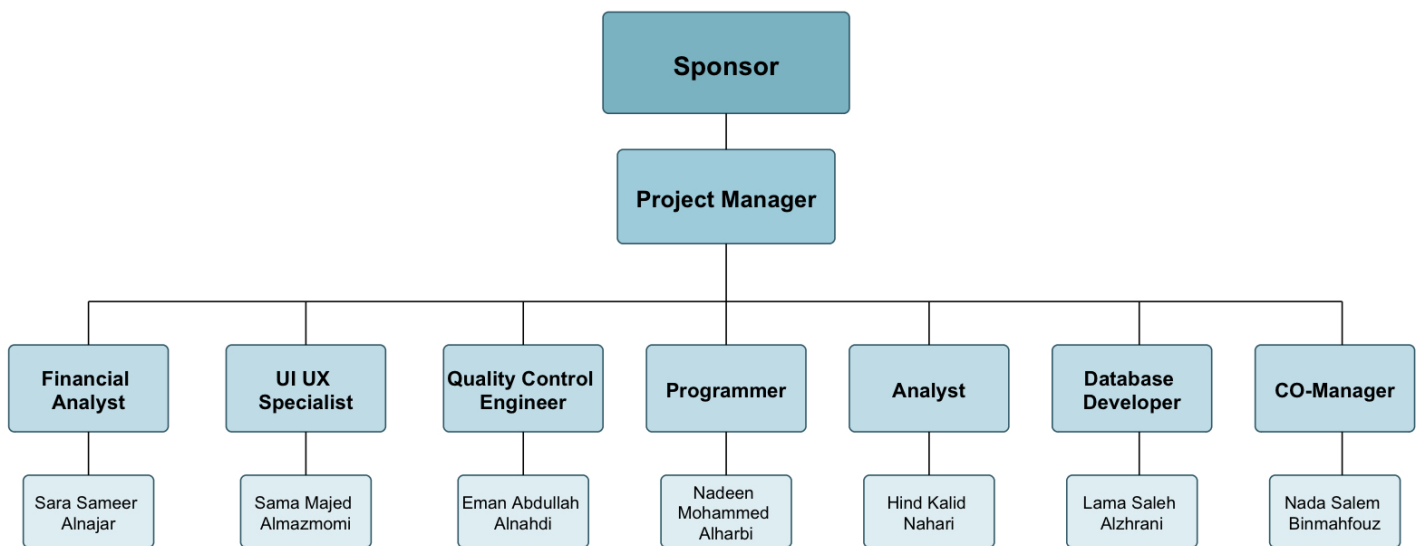
Figure 5: *Project Organizational Chart*
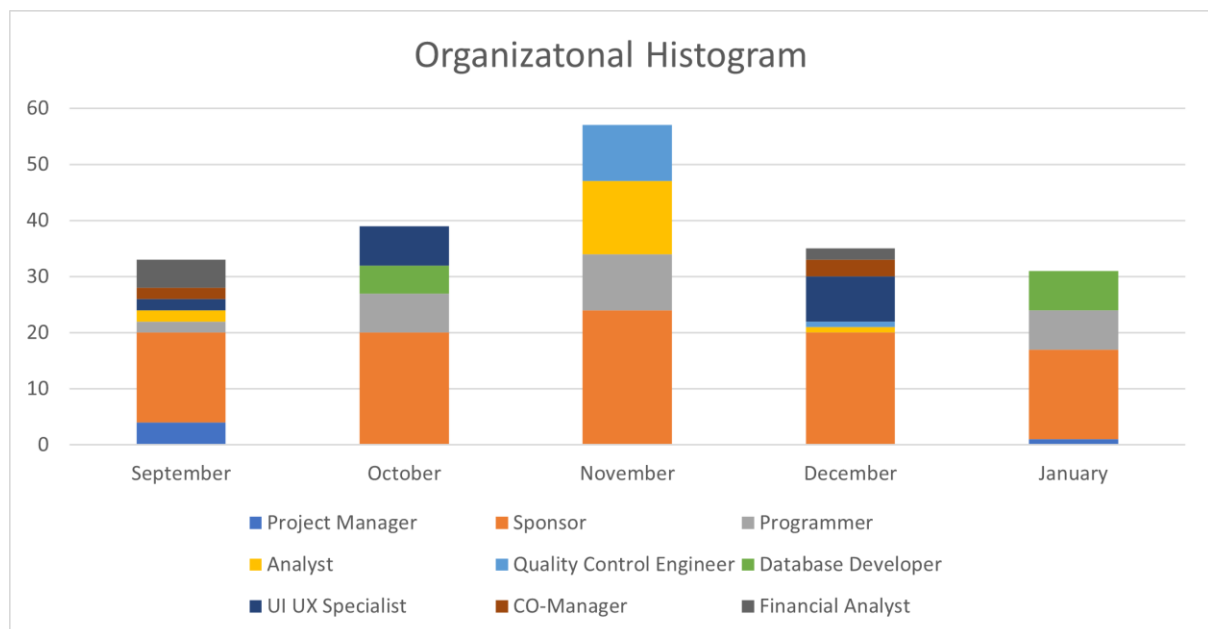
Figure 6: *Project Organizational Histogram*

7. Major Project Milestones

Milestone	Date	Status	Responsiblity	Issues/commens
Decision to prceed further	7-09-2022	Accepted/ Rejected	Project manager	Ensure that the customer wants to complete the project with us.
Close the project	22-01-2023	Finished/ Not Finshied	Project manager	Ensure that the major delivirables sent to the client and the project met its scope and application was deilvierd.

Table 2: Project Milestones

8. Detailed Project Schedule (MS Project)

8.1. General Project Information:

Figure 7: General Project Information

8.2. Project Calendar:

- Working Days:
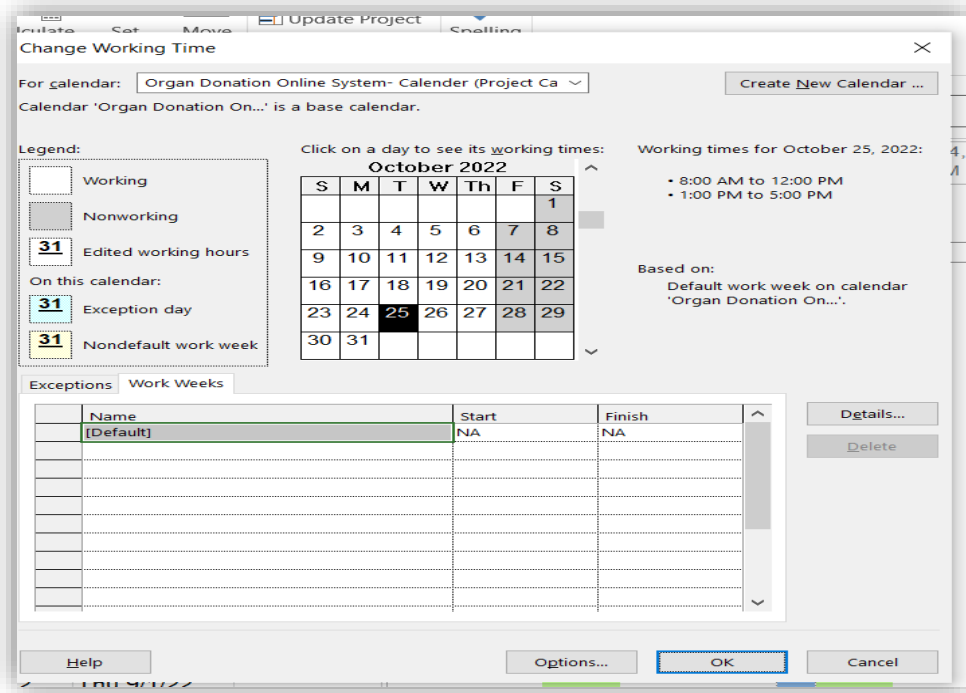
Figure 8: *Working Days*

- Non-Working Days:
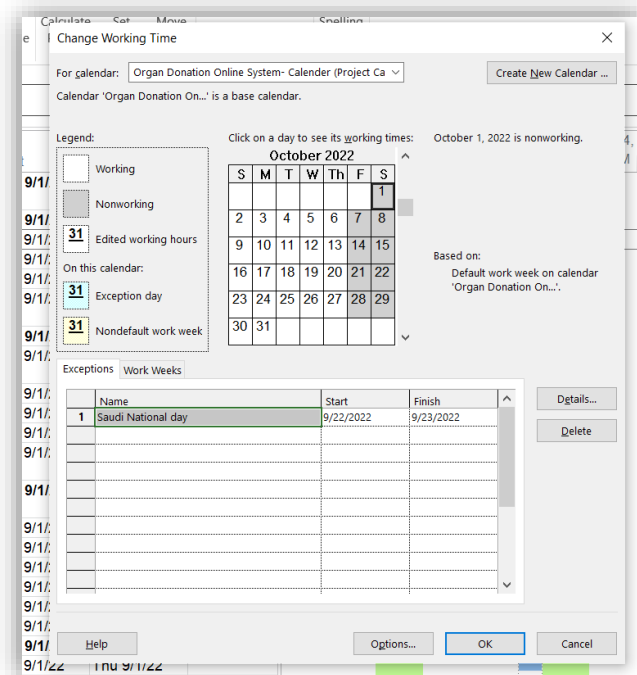
Figure 9: *Non-Working Days*

8.3. Names Of Summary Task (Phases):

Figure 10: Summary Task

8.4. Names Of Subtasks And Duration:

Figure 11: Subtasks and Duration

8.5. Relationships Between Subtasks:
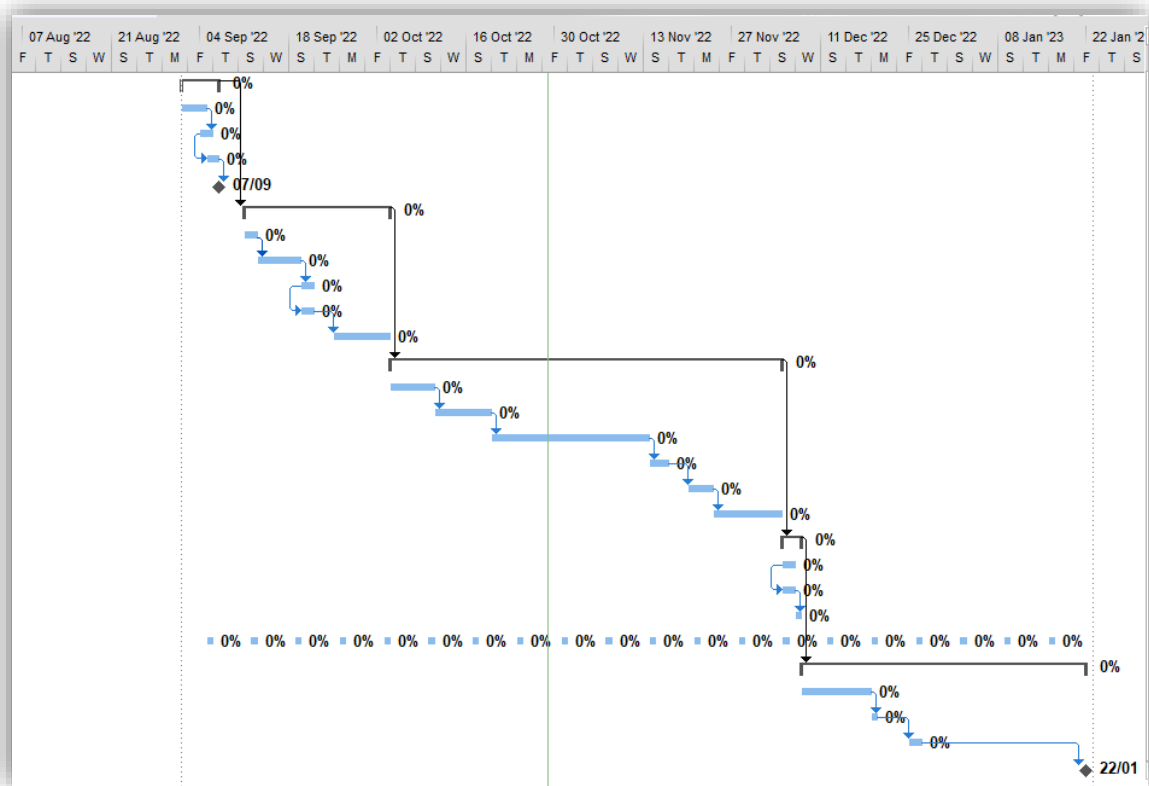
ⓘ	Task Mode	Task Name	Duration	Start	Finish	Predecessors
🗐	📌	◢ **Organ Donation Online System**	**98 days**	**Thu 01/09/22**	**Sun 22/01/23**	
🗐	➡	◢ **Initiation**	**4 days**	**Thu 01/09/22**	**Wed 07/09/22**	
🗐	➡	Identifing Stakeholder	2 days	Thu 01/09/22	Sun 04/09/22	
▦🗐	➡	Initial Report	2 days	Sun 04/09/22	Mon 05/09/22	٣FS-٢ days
▦🗐	➡	Demo for the client	2 days	Mon 05/09/22	Tue 06/09/22	٤SS
▦🗐	➡	Decision to proceed further	0 days	Wed 07/09/22	Wed 07/09/22	٥
🗐	➡	◢ **Planning**	**13 days**	**Sun 11/09/22**	**Mon 03/10/22**	٢
▦🗐	➡	Goals and objectives defining	2 days	Sun 11/09/22	Mon 12/09/22	
▦🗐	➡	Collect requirments	5 days	Tue 13/09/22	Mon 19/09/22	٨
🗐	➡	Cost estimation	2 days	Tue 20/09/22	Wed 21/09/22	٩
🗐	➡	Schedule estimation	2 days	Tue 20/09/22	Wed 21/09/22	١٠SS
▦🗐	➡	Plan stakeholder manageme	4 days	Sun 25/09/22	Mon 03/10/22	١١
🗐	➡	◢ **Executing**	**44 days**	**Tue 04/10/22**	**Sun 04/12/22**	٧
▦🗐	➡	Database design	5 days	Tue 04/10/22	Mon 10/10/22	
🗐	➡	Interface design	7 days	Tue 11/10/22	Wed 19/10/22	١٤
🗐	➡	Coding	17 days	Thu 20/10/22	Sun 13/11/22	١٥
🗐	➡	Software testing	3 days	Mon 14/11/22	Wed 16/11/22	١٦
🗐	➡	System integration	4 days	Sun 20/11/22	Wed 23/11/22	١٧FS+١ day
🗐	➡	Training	7 days	Thu 24/11/22	Sun 04/12/22	١٨
	➡	◢ **Controlling**	**3 days**	**Mon 05/12/22**	**Wed 07/12/22**	١٣
	➡	Control schedule	2 days	Mon 05/12/22	Tue 06/12/22	
	➡	Control cost	2 days	Mon 05/12/22	Tue 06/12/22	٢١SS
	➡	Check the validation of scop	1 day	Wed 07/12/22	Wed 07/12/22	٢٢
🔄	➡	▷ **Maintanance**	**92 days**	**Mon 05/09/22**	**Mon 16/01/23**	
	➡	◢ **Closing**	**31 days**	**Thu 08/12/22**	**Sun 22/01/23**	٢٠
	➡	System testing	7 days	Thu 08/12/22	Sun 18/12/22	
	➡	Client approval	1 day	Mon 19/12/22	Mon 19/12/22	٢٦
	➡	Final report	2 days	Sun 25/12/22	Mon 26/12/22	٤٢FS+٣ days
▦	➡	Close the project	0 days	Sun 22/01/23	Sun 22/01/23	٤٨

Figure 12: *Relationships Between Subtasks*

8.6. Relationships Between the Summary Tasks:
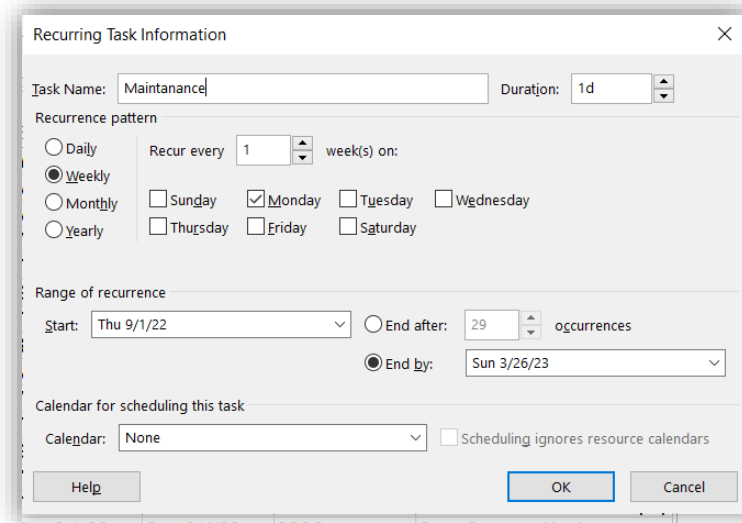
Figure 13: Relationships Between the Summary Tasks

8.7. Project Milestones:

Figure 14: Project Milestones

8.8. Recurring Task:

Figure 15: *Recurring Task*

8.9. Resources Information in Resource Sheet:

Figure 16: *Resources Information*

8.10. Task Have an Inflexible or Semi-Flexible Constraint:

- Semi-flexible:
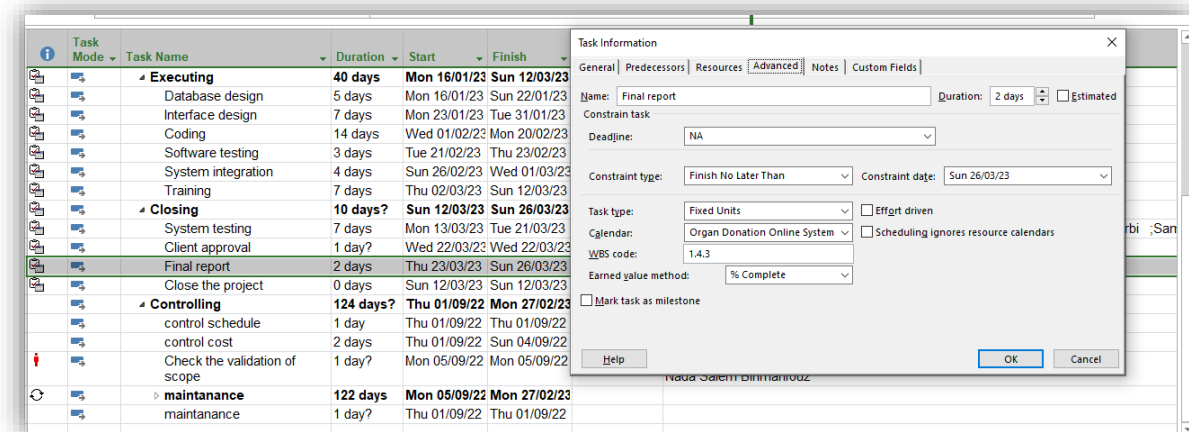
  Task Final Report can finish before than or in 26-3-2023 Sunday.

Figure 17: *Semi-flexible Constraint*

- Inflexible:

  Task Collect requirements must finish at 11-1-2023 in Wednesday.
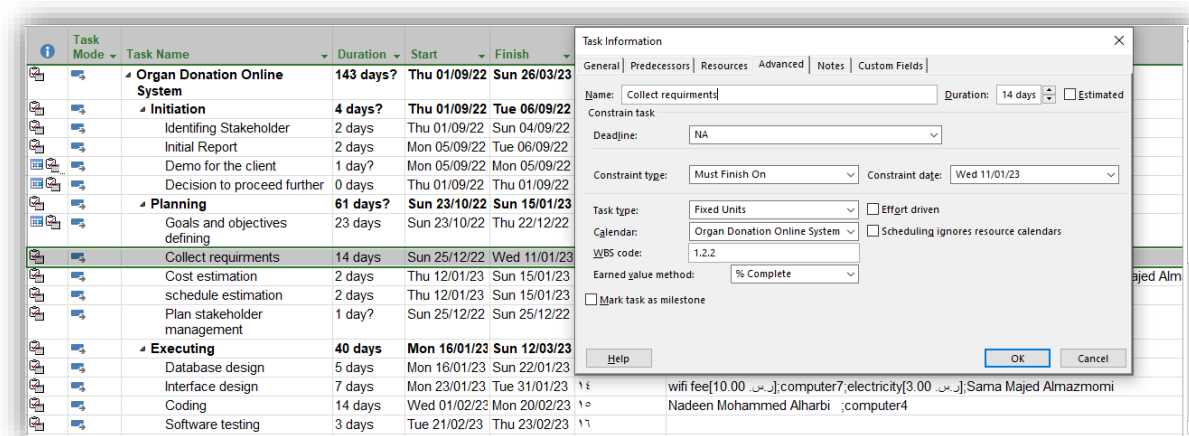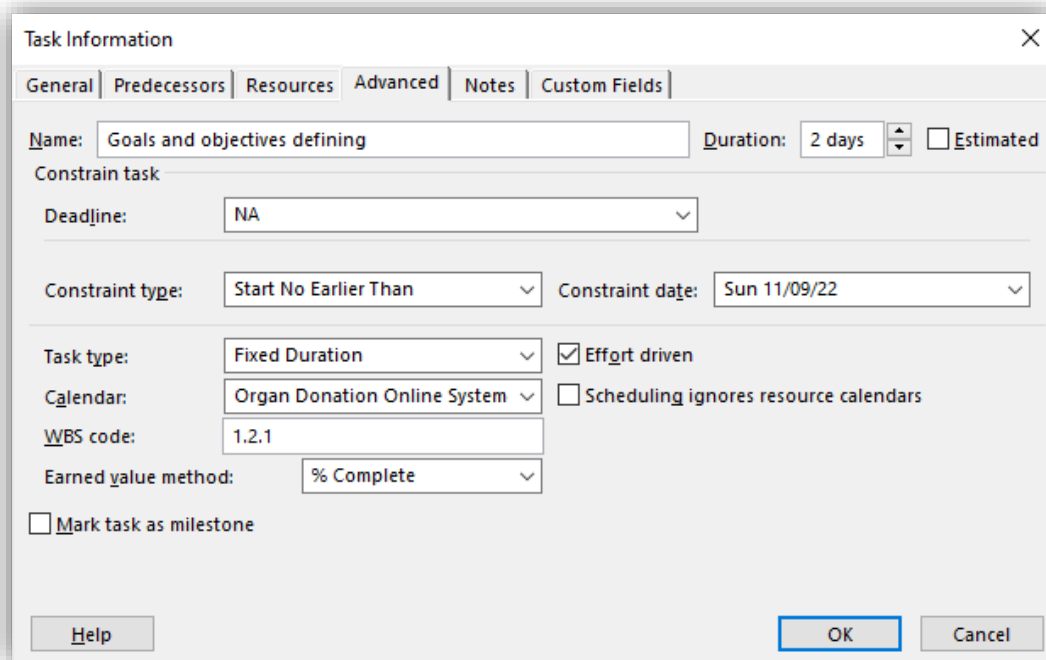
Figure 18: *Inflexible Constraint*

8.11. Task Have a Fixed Duration Or Fixed Work Type:

- Fixed duration:

Figure 19: *Fixed duration task*

- Fixed work:

Figure 20: *Fixed work task*

8.12. Person Resource Has a Multiple Pay Rate Depend on Task:

Figure 21: *Multiple Pay Rate Depend on Task*

8.13. Person Resource Has a Multiple Pay Rate Depend on Time:

Figure 22: *Multiple Pay Rate Depend on Time*

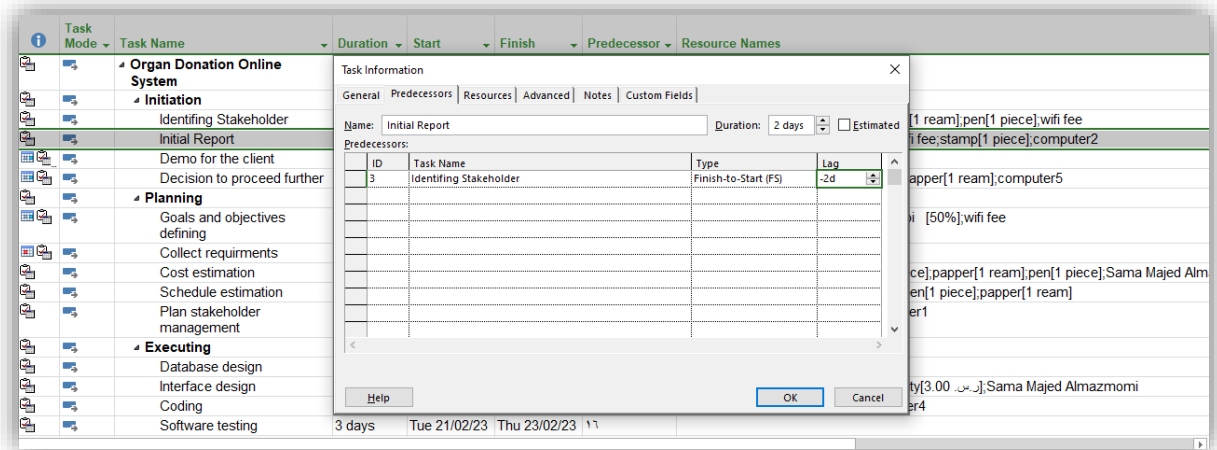# 8.14. Tasks Have Lead Or Lag Time:

- Lead time:

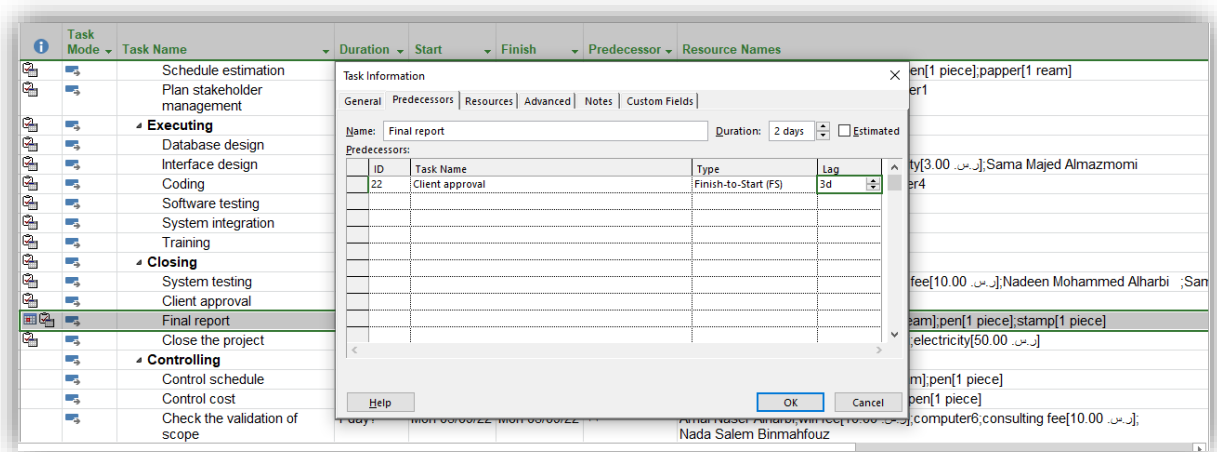***Figure 23:*** *Lead time*

- Lag time:

Figure 24: *Lag time*

9. Reference

1- Donate Life America: National donor description report card.[http://donatelife.net/2013-nationaldonor-description-report-card-released/]