Project Management

Supermarket System

- **Offical project name :** Supermarket System.
- **Project sponser and contact information :** Rehab Ashraf.
- **Phone :**01008051280
- **Project manager and contact information :** Arwa Ezz .
- **Phone :**01006754169
- **Purpose of the project :**
    1. Organizing the system of the supermarket and calculating the average of the annual profit by the easiest and best way as possible as we can .
    2. Applying the QR technology code toy check the correct price of the goods .
    3. Providing an application that helps the client to choose which goods he want to buy and if the good is available at the supermarket or not.
    4. Providing the online shopping from the supermarket and delivering the goods to the clients.
    5. Providing an automated system that helps the client to find the appropriate goods for the price he enters in this system .
- **Key deliverables of the project :** deal with the system of the supermarket as possible as we can , less the effort of the human and

try to do the most of the jobs of the supermarket by using the this automated system .

- **Budget of the project :** 100,000 LE
- **General statement about how the team will approach the work :**

- We cooperate with each other to make the easiest and best project at the lowest coast .

- **Basic timeline of when the project milestones will be reached:**

- We started the project : on 25/10/2021
- We will check the project : on 25/1/2022
- We will end the project : on 18/2/2022

- Sources and refrence : IT Project Management book.
- **Project staff :**

(Rehab Ashraf –Arwa Ezz – Tsabeeh Mohamed – Arwa mostafa)

- **High level risks :**

- When some products don't exist on the system of the project we made .
- When the budget end before we end the project purpose .

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■ ***Gantt Chart***

ID	DUR (weeks)	Task	ES	EF	LS	LF	FS	TS
1.	**4**	Database	25/10/2021	25/11/2021	25/10/2021	25/11/2021	0	0
2.	**2**	Network	25/11/2021	9/12/2021	25/11/2021	9/12/2021	0	0
2.1	**2**	Router	9/12/2021	23/12/2021	10/12/2021	24/12/2021	1	1
2.2	**2**	LAN	9/12/2021	23/12/2021	10/12/2021	24/12/2021	1	1
2.3	**3**	WAN	9/12/2021	30/12/2021	9/12/2021	30/12/2021	0	0
3.	**2**	Test the application	30/12/2021	13/1/2022	30/12/2021	13/1/2022	0	0
3.1	**3**	Analysis the project	13/1/2022	4/2/2022	13/1/2022	4/2/2022	0	0
3.2	**3**	Develop the project	13/1/2022	4/2/2022	13/1/2022	4/2/2021	0	0
3.3	**2**	Test the validity of the project	13/1/2022	27/1/2022	13/1/2022	27/1/2022	0	0
4.	**2**	Ending and launching the project	4/2/2022	18/2/2022	4/2/2022	18/2/2022	0	0

- ***The project scope statement***
  - ***Product scope description:***

    - we will deliver a system to the owners of the supermarket , an application which helps the clients at dealing with the products and knowing their prices and using the QR code technology at buying the products.

    -The project will not exceed the specified time and budget and will not go out of the supermarket system .
  - ***Product Acceptance Criteria:***

    -The system must include all supermarket products by registering them all in the system before it can be applied to the supermarket , which differs from supermarket to another .
  - ***Project Deliverables:***

    - A report explaining how the system works and how to deal with it .

    - Delivering devices that support the system and help it work accurately, such as an application that works with QR technology.
  - ***Project Exclusions:***

    - The application used to know the prices of the products is only responsible for displaying the prices of the products and their names without attaching pictures to them or specifying the quantity available in the supermarket .
  - ***Project constrains :***

-It must not exceed 100,000 LE.

-It must be finished on 1/2/2022.

- ***Project Assumptions:***

  - The system must contains all the products that existed in the supermarket and their correct prices without any errors .

  -The system must allow the addition of new goods when the old quantity runs out .

  - delivering the goods to the customer in the best way without any damage .

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- ***Work Breakdown Structure {WBS }***

1. Database
2. Network
   - 2.1. Router
   - 2.2. LAN
   - 2.3. WAN
3. Test the application.
   - 3.1 analysis the project .
   - 3.2 develop the Project .
   - 3.3 test the validity of the project .
4. Ending and Launching the project .

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- ***WBS Dictionary***

1. Database : all data about the project .
2. Network : the mean of connection among the system devices in the supermarket .
   - 2.1. Routers : link between WANs of the supermarket system in different and remote areas .
   - 2.2. WAN: link between LANs of the supermarket system in different and remote areas.
   - 2.3. LAN: The supermarket network in which the system operates .

3.Test the application :

-find out if the app is working properly or not .

3.1.Analysis the project :

- find out if the project has any error or not .

3.2.Develop the Project :

- correcting the errors , if found .

3.3.test the validity of the project :

- enter some products and their prices then launch the project .

4.Ending and Launching the project :

- end the project and make it launch in the supermarket .

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- ***Roles and Responsibilities Matrix***

	Project manager	Application developer	Network engineer	Project designer	Project sponser
Create the application.	A	C	P	P	
Test the application.	R	A	P		
Package the application.	A			P	
Test the application release.	R	A	P		R
Push the application to the workstation.	A			C	R
Check the system errors.		A	C		
Code error handling.	R	C	P		
Check the charter of the project .	A			P	R
Check the budget Of the project .	R				A
Marketing the projec	R		P		C

R-reviews

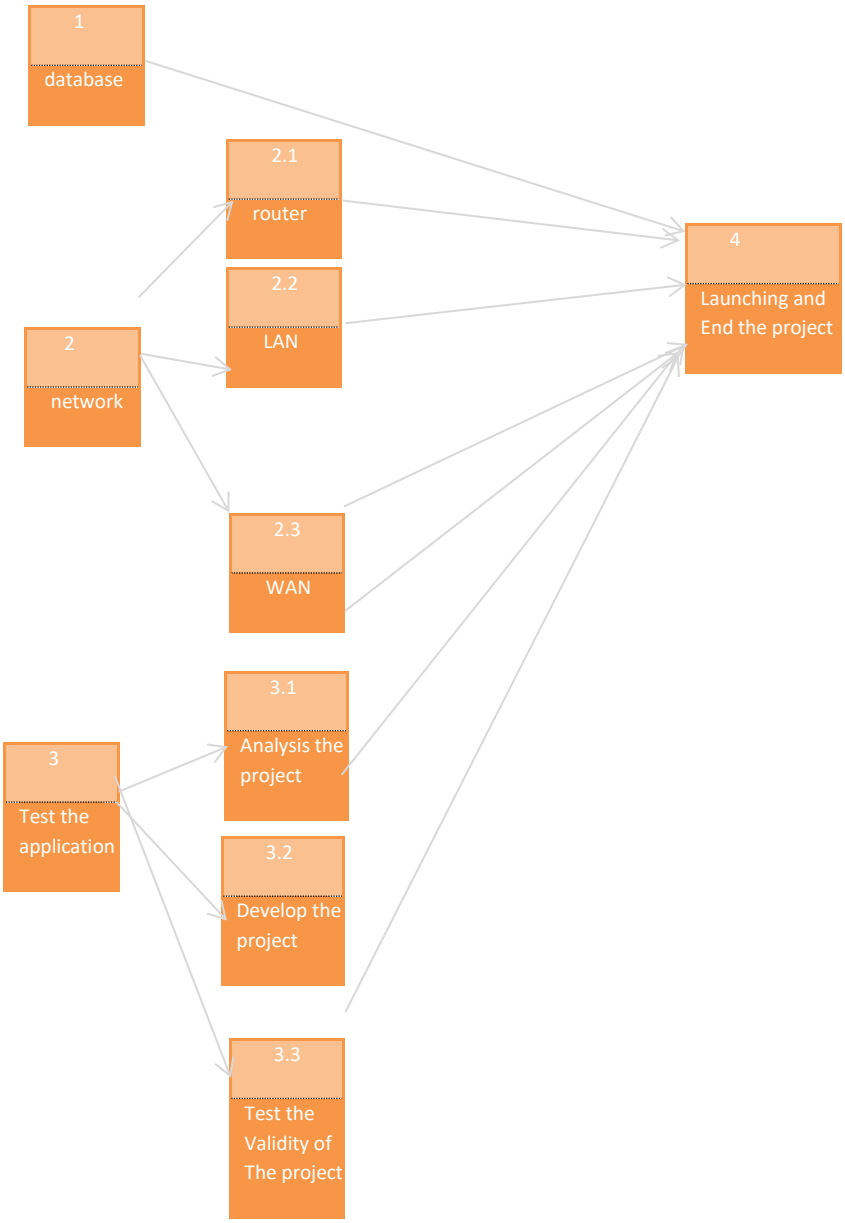
P-participant

A-approves

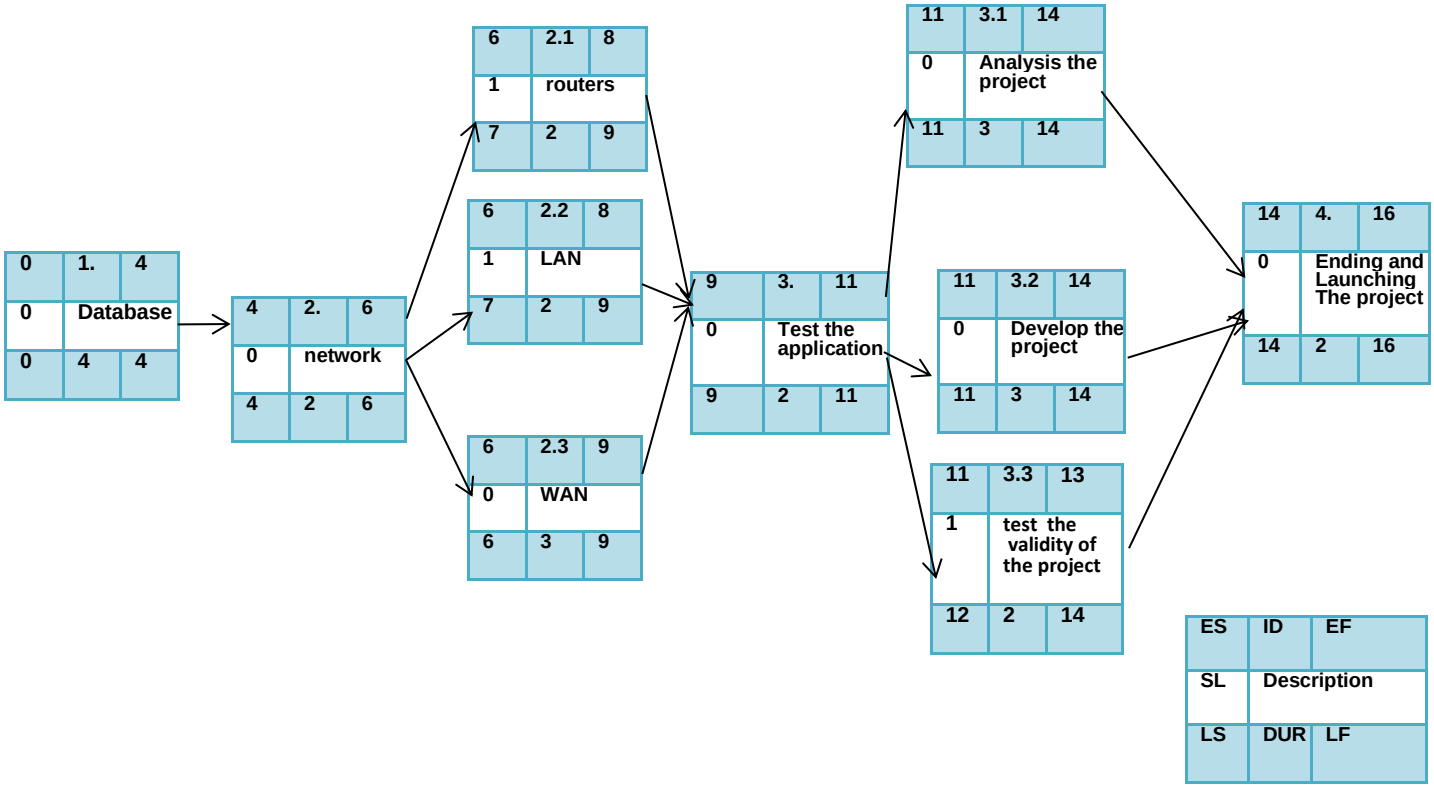
C-creator

■ ***Project Network***

Activity	Description	Preceding activity
1.	Database	none
2.	Network	none
2.1	Router	network
2.2	LAN	network
2.3	WAN	network
3.	Test the application	none
3.1	Analysis the project	Test the project
3.2	Develop the project	Test the project
3.3	Test the validity of the project	Test the project
4.	Launching and end the project	Database,Router,LAN,WAN, Analysis,Develop and Test the of the project .


1
database
2.1
router
2.2
LAN
2
network
2.3
WAN
4
Launching and End the project
3.1
Analysis the project
3
Test the application
3.2
Develop the project
3.3
Test the Validity of The project

- ***Resource Constrained***



ID	RES	DUR	ES	LF	SL	0:1	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	10:11	11:12	12:13	13:14	14:15	15:16
1.	**2P**	4	0	4	0	2	2	2	2												
2.	**2P**	2	4	6	0					2	2										
2.1	**1P**	2	6	9	1							1	1								
2.2	**2P**	2	6	9	1							2	2								
2.3	**2P**	3	6	9	0							2	2	2							
3.	**1P**	2	9	11	0										1	1					
3.1	**2P**	3	11	14	0												2	2	2		
3.2	**2P**	3	11	14	0												2	2	2		
3.3	**2P**	2	11	14	1												2	2			
4.	**1P**	2	14	16	0															2	2
Total Resource Load						2	2	2	2	2	2	5	5	2	1	1	6	6	4	2	2
Resource Available						6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

- ***Budget Baseline***

ID	DUR	Task	budget	0:1	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	10:11	11:12	12:13	13:14	14:15	15:16
1.	**4**	Database	5	2	1	1	1												
2.	**2**	Network	15					10	5										
2.1	**2**	Router	15							10	5								
2.2	**2**	LAN	15							5	10								
2.3	**3**	WAN	15							5	5	5							
3.	**2**	Test the application	10										5	5					
3.1	**3**	Analysis the project	5												2	1	2		
3.2	**3**	Develop the project	10												2	3	5		
3.3	**2**	Test the validity of the project	5												2	3			
4.	**2**	Ending and launching the project	5															3	2
Total			**100**	2	1	1	1	10	5	20	20	5	5	5	6	7	7	3	2
Commutative				2	3	4	5	15	20	40	60	65	70	75	81	88	95	98	100

■***Risk Management & Monitoring***

- **What are the risks that can face your project?**

-When some products don't exist on the system of the project we made.

-When the budget end before we end the project purpose.

- **How to deal with these risks?**

-Providing all products so that there is no shortage of some products.

- **Demostrate how to montior your project ?**

- A meeting is held every certain period of time to see what the project has achieved.