

Management and Controlling Electricity Outside home (home Automation)

Executive summary:

In this project we will solve the problem of wasting the electricity by making application that can control electricity from anywhere you are.

We can turn on/off our smart devices like (air conditioner, TV, refrigerator and electric ovens) in our homes from work.

The App enable us to see which device is turn on/off.

We can know which device save or waste electricity.

By applying this App we can see if there are electricity saved.

● Deliverables:

- Technical expert collects information about operating system of smart devices.
- Design the Application program.
- Programmers write code and debug it and fixed errors.
- Connect App with smart devices using internet and test the performance of App.

- **Resource:**

- A technical smart devices expert.
- *20 laptops with core i7.*
- Team of software developer.
- *Team of designers.*
- *Team of programmers.*

- **Scope statement of project:**

This Application enable us to turn on or turn off smart devices. show all smart devices at home its turn on/off. But the Application cannot tell you if the device will be damage soon. We use the App on windows, IOS and Android but not Linux.

Milestones:

- One month for technical experts to collect information.
- Five weeks to design the program.
- Eight weeks for the programmers write code and fixed errors.
- One week to connect App with smart devices.
- One month to test the performance of the App.

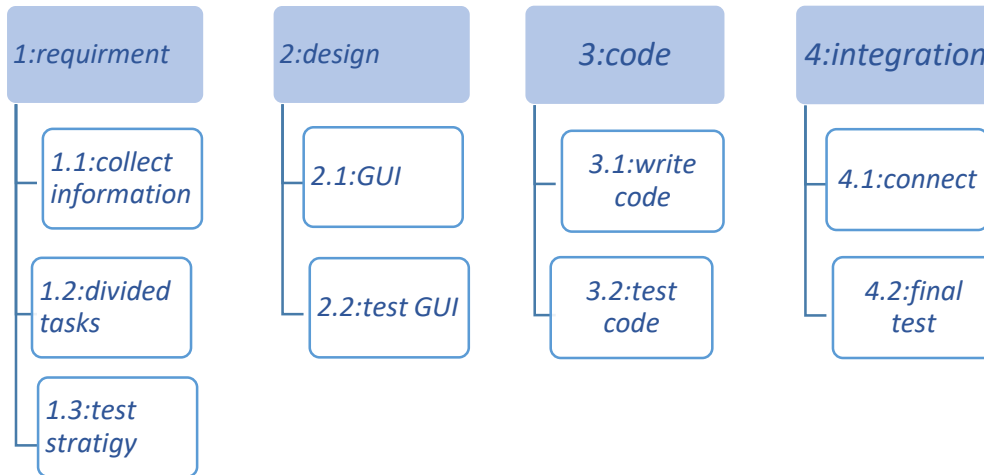
Assumption:

- The App will not need high internet connection.
- This App will be enabled to control smart devices that will be invented in the future.
- It is supposed to provide 15% of electricity.
- It can make update for the App.
- Success in show consumption and numbers of working hours for the device.

Constraints:

- Total time: the App will be end before 1 year.
- Total Budget: we needed to make the App 100.000\$
- Limiting be 5 persons in the day.

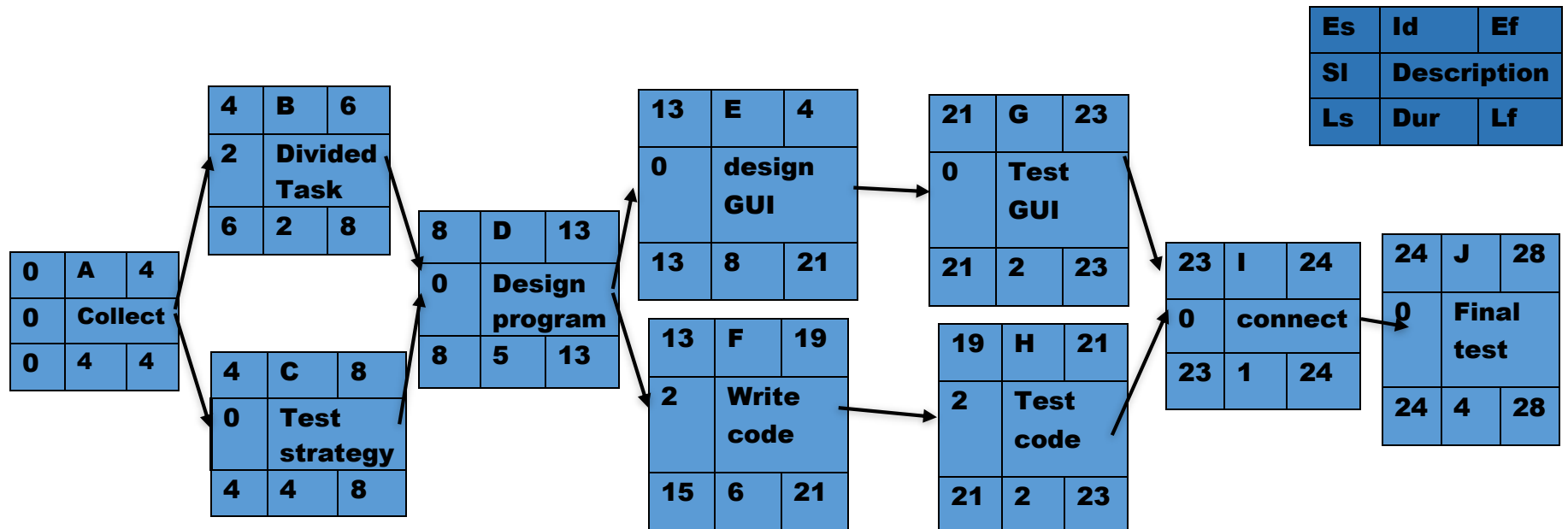
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❖ **Responsibility matrix**

ACTIVITIES	NOURHAN	HEND	ALIAA	NERMEEN	MANAL
COLLECT INFORMATION		R	S		
DIVIDE TASKES	R	S	R	S	
TEST STRATIGE		S	R		
CREATE APPLICATION		R		S	R
TEST APP	S		S	R	S
DESIGN GUI	R		S	S	
TEST GUI	S		R		R
WRITE CODE	R		R		S
TEST CODE		R	S	R	S
CONNECT APP WITH SMART DEVICES	S		R	R	S

❖ Project network.

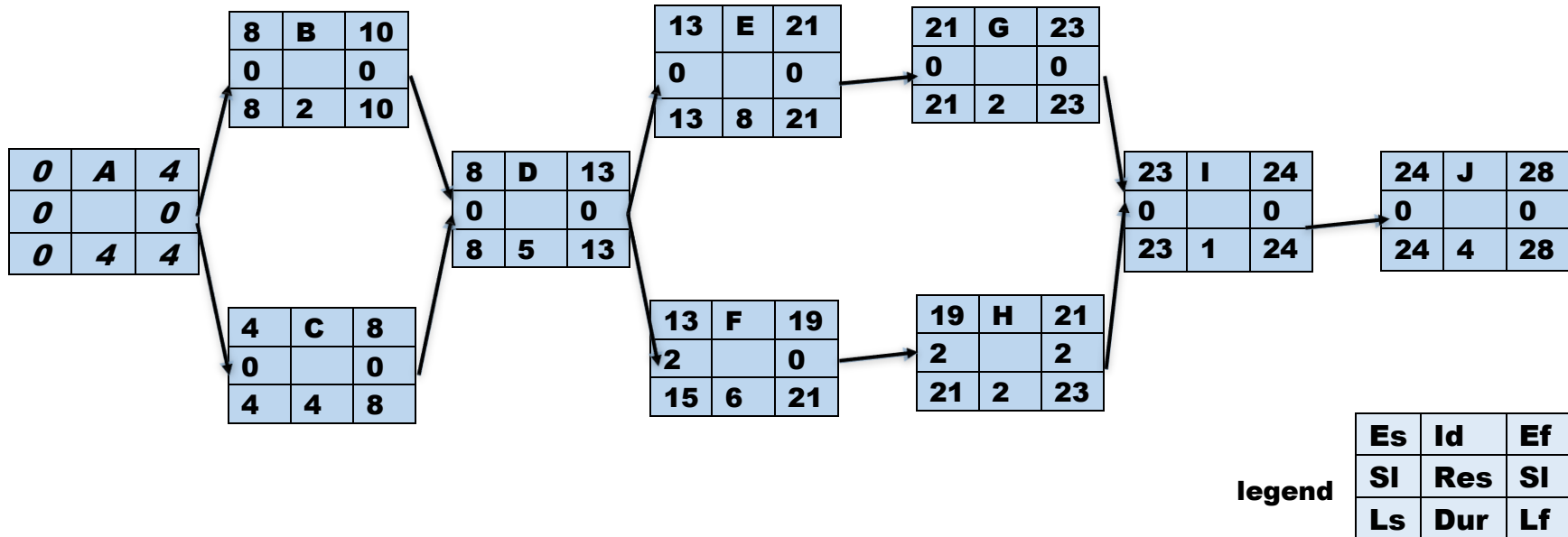


Gantt chart:

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❖ resource constrained project

[illegible]



❖ **Final resource constrained.**

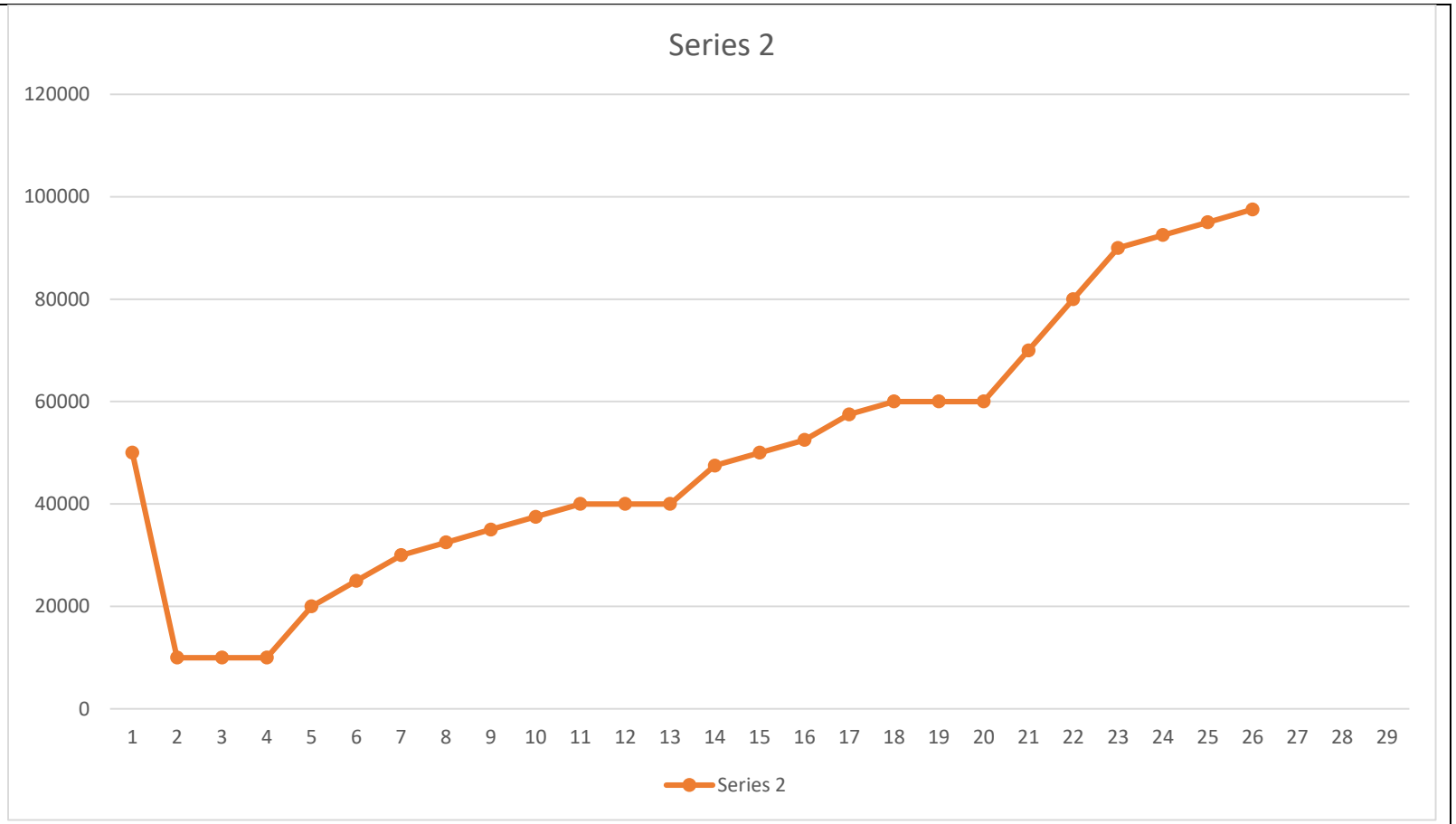
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❖ Time phased budget.

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A	4	10.0 00	500 0	500 0																											
B	2	10.0 00					10. 000																								
C	4	10.0 00						5 0 0 0	5 0 0 0																						
D	6	10.0 00									2 5 0 0	2 5 0 0	2 5 0 0	2 5 0 0																	
E	8	10.0 00															2 5 0 0	2 5 0 0	2 5 0 0	2 5 0 0											
F	8	10.0 00															5 0 0 0			2 5 0 0	2 5 0 0										
G	2	10.0 00																							5 0 0 0	5 0 0 0					
H	2	10.0 00																							5 0 0 0	5 0 0 0					

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***Cumulative
baseline
budget
(pv)***



Risk:

➤ **Cost Risk:**

The project cost is higher than the budget funds

Risk management: changing the project plan to eliminate the high cost

➤ **Technical Risk:**

Packing wrong system for project.

Risk management: Reload the system for project again to reduce risk.

Computer network problem.

Risk management: we have backup computers when there is a problem with a computer while working.

Poor installation techniques.

Risk management: Rework on installation techniques.

➤ **Security Risk:**

Wrong implementation of security standers.

Risk management: Accuracy during the implementation of safety standers.

"team member"

1-منال على سيد سيد 2- هند عبد المنعم سيد عبد الغنى 3- علياء احمد ابوزيد

4-نرمين عبد الحميد على محمد 5-نورهان احمد ابراهيم احمد

"مجموعه 2"