Team Members

1. Samwel Marzouk Rezk section (8)

2. Shnouda nabill lameey section (7)

3. Sedeq Halim sadek section (8)

4. Sobhi mohamed sobhi section (8)

5-Abdelmonem khames section (9)

6. Sohib ali mohamed section (8)

- ## Presentation : -

  The smart card has become a trader between the world's members and facilitates anyone to own it, but smart cards in banks or pay money for daily purchases, but this project will talk about its use in transportation, which facilitates the payment and makes the state control and This is through the connector device and each means of transportation containing the entrance to the entrance to the withdrawal of funds and know the number of passengers within the transportation and means of the maximum passenger and the remaining number of places and this project is granted a new feature of the smart card .

Project charter

- Project name : - Smart card (for transportaion)
- Project sponsor : - Ministry of transport.
- Project manager : - Eng \ Khaled ali .
- Purpose of the project : - Facilitate the payment process in the means of transportation for people.
- Business case : -

smart card is essentially a credit-card-sized piece of plastic which has a microchip embedded in it. This chip is the ‘smartness’ of the smart card, and performs all the functions required by thecard (storing data, processing data, writing data, etc.). Smartcardchips come in two broad varieties: memory-only chips, withstorage space for data, and with a reasonable level of builtinsecurity; and microprocessor chips which, in addition to memory,employ a processor controlled by a card operating system (similarto any PC), with the ability to process data onboard, as well ascarrying small programs capable of local execution.

- Project scoop : -

1. Control of transportation prices imposed by the state
2. Facilitate the payment process for the user

3. Increasing the chances of dealing with banks

4. Knowing the actual profits achieved by the means of transportation

• Key deliverables of the project : -

Control through the Ministry of Transport in the process of payment in transportation easily to the consumer, and the elimination of manipulation in transportation prices.

• Project milestons (Time line of project) : -

– In the first two weeks, the electrical engineers team will do this Gathering information about the device that will be connected to the transport vehicle .

– For month, engineers will make device .

– For Two weeks, a team of programmers will make the device .

– The project is being tested for a week .

• Project resources : -

1- A team of electrical engineering.
2- A team of programing.
3- The Device

• Budget: 200,000$

• Staff:

- A team elictrical engineers.

- A team of programmers.

- Vendor :
- The ministry of communications

• Constraints : -

1-The project must take time less than 11 weaks.

2-The project must not exceed 200,000 $

• Assumptions : -

1- The project does not take more than 11 weaks.
2- The cost no more 200,000$
3- Efficiency in the devices.

• High level risks : -

1. Increase in the cost.
2. The lack of efficiency sufficient in the receiver or the teams.
3. People do not interact with modern technology.

Project scope

1. Project scope discribtion:

- The smart card can facilitate the payment process for the user.
- Through the smart card, transportation prices can be controlled.

- Through the smart card in transportation, we make the use of technology in all life activities.

2. Project acceptance criteries:

- The card is small and easy to carry.
- Easy to use, faster and comfortable.

3. Project deliverables:

- Project plan, reports, documents and resources which return to ministry of transport.

- Protection of the payment process in transportation.

4. Project excution:

- One of customers reequirements that each card must have more than one effective copy , but the sponsor and manager refuse this because this is not safe and security.

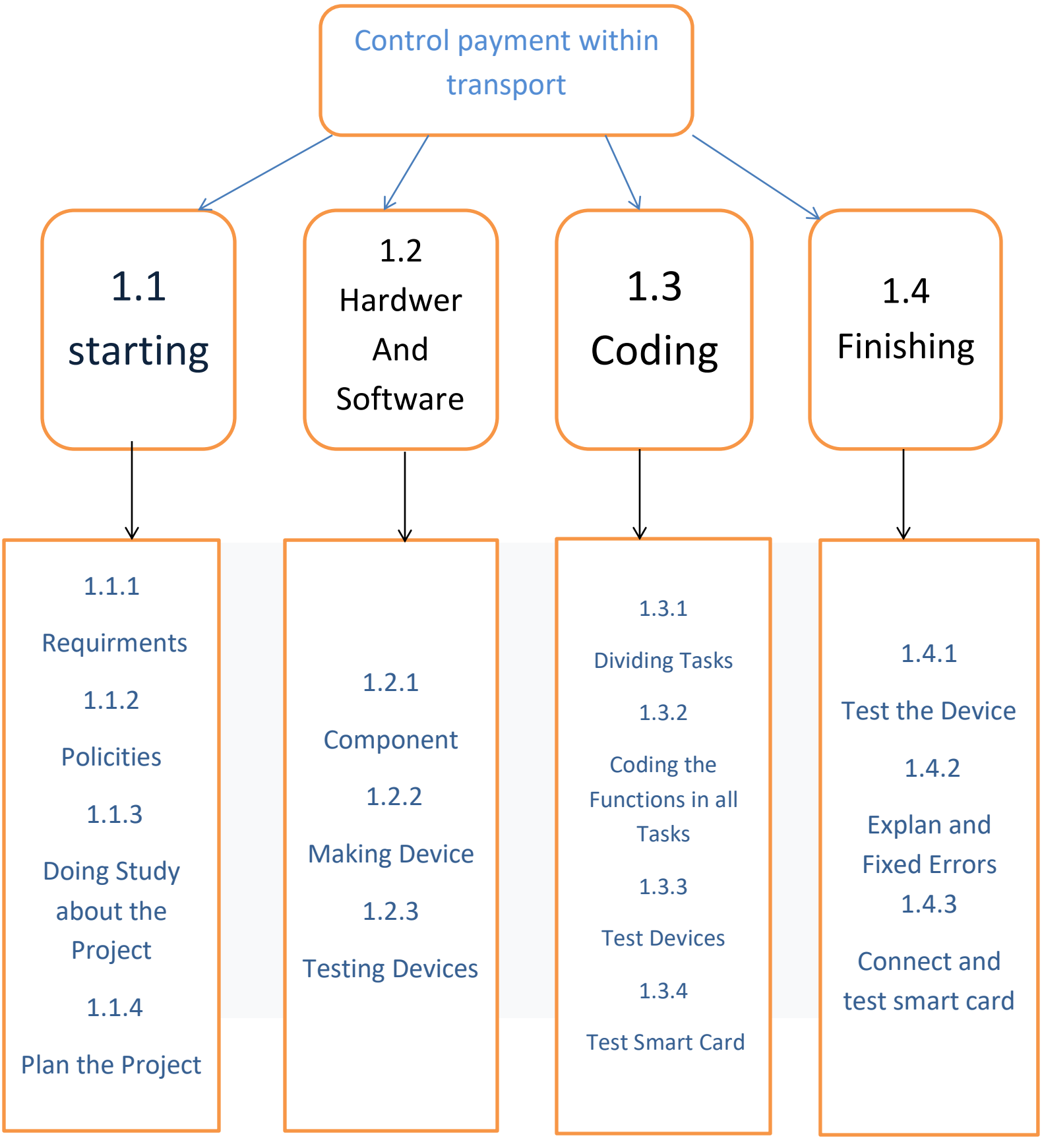
5. Project constraints:

- Rules of company and policies.
- Budget.
- Project assumptions:

6. Project assumptions:

- The project will be implemented in large means of transportation such as trains and b

WBS


Control payment within transport
1.1 starting
1.2 Hardwer And Software
1.3 Coding
1.4 Finishing
1.1.1
Requirments
1.1.2
Policities
1.1.3
Doing Study about the Project
1.1.4
Plan the Project
1.2.1
Component
1.2.2
Making Device
1.2.3
Testing Devices
1.3.1
Dividing Tasks
1.3.2
Coding the Functions in all Tasks
1.3.3
Test Devices
1.3.4
Test Smart Card
1.4.1
Test the Device
1.4.2
Explan and Fixed Errors
1.4.3
Connect and test smart card

Dictionary of WBS

1.1 Starting : -

Work PackageID	1.1
Work Package Name Description	Requirment
Description	Meeting with team,Stakeholder and Sponser
Person	Manager & Team Members
Date Start	1 October 2022
Date End	4 October 2022

Work PackageID	1.2.2
Work Package Name Description	Policites
Description	Know the Policites and Recommends of the minister
Person	Manager
Date Start	5/October/2022
Date End	11/October/2022

Work PackageID	1.2.3
Work Package Name Description	Doing Study about the Project
Description	Collecting all information about the project
Person	Manager and Team Member
Date Start	12/October/2022
Date End	22/October/2022

1.2 Hardwer And Software

Work PackageID	1.2.1
Work Package Name Description	Component
Person	Electrical engineering
Date Start	23/October/2022
Date End	30/October/2022

Work PackageID	1.2.2
Work Package Name Description	Making Device
Person	Electrical engineering
Date Start	1/November/2022
Date End	10/ November /2022

Work PackageID	1.2.3
Work Package Name Description	Testing Devices
Person	Tester
Date Start	11/ November/2022
Date End	14/ November/2022

1.3 coding

Work PackageID	1.3.1
Work Package Name Description	Dividing Tasks
Person	Team leader
Date Start	15/ November/2022
Date End	20/ November/2022

Work PackageID	1.3.2
Work Package Name Description	Coding the Functions in all Tasks
Person	Programmer
Date Start	21/ November/2022
Date End	21/December/2022

Work PackageID	1.3.3
Work Package Name Description	Test Devices
Person	Tester
Date Start	22/ December/2022
Date End	25/ December/2022

Work PackageID	1.3.1
Work Package Name Description	Test Smart Card
Person	Tester
Date Start	26/ December/2022
Date End	31/ December/2022

1.4 finishing

Work PackageID	1.4.1
Work Package Name Description	Test the Device
Person	Tester
Date Start	1/January/2023
Date End	3/ January /2023

Work PackageID	1.4.2
Work Package Name Description	Explan and Fixed Errors
Person	Programer
Date Start	4/ January/2023
Date End	10/ January/2023

Work PackageID	1.4.3
Work Package Name Description	Connect and test smart card
Person	Team leader
Date Start	11/ January/ 2023
Date End	13/ January/2023

Aroles and responsibilities matrix

	Project manager	Team leader	Software engineer	Tester	designer	Markting manager
Create the device and Smart card	A	R	C			
Test the device and smart card	R	P	P	C		
Correct errors	A	P	C			
Test after correction	R	P	P	C		
Smart card design	A	R			C	P
Device markting	A	R				C

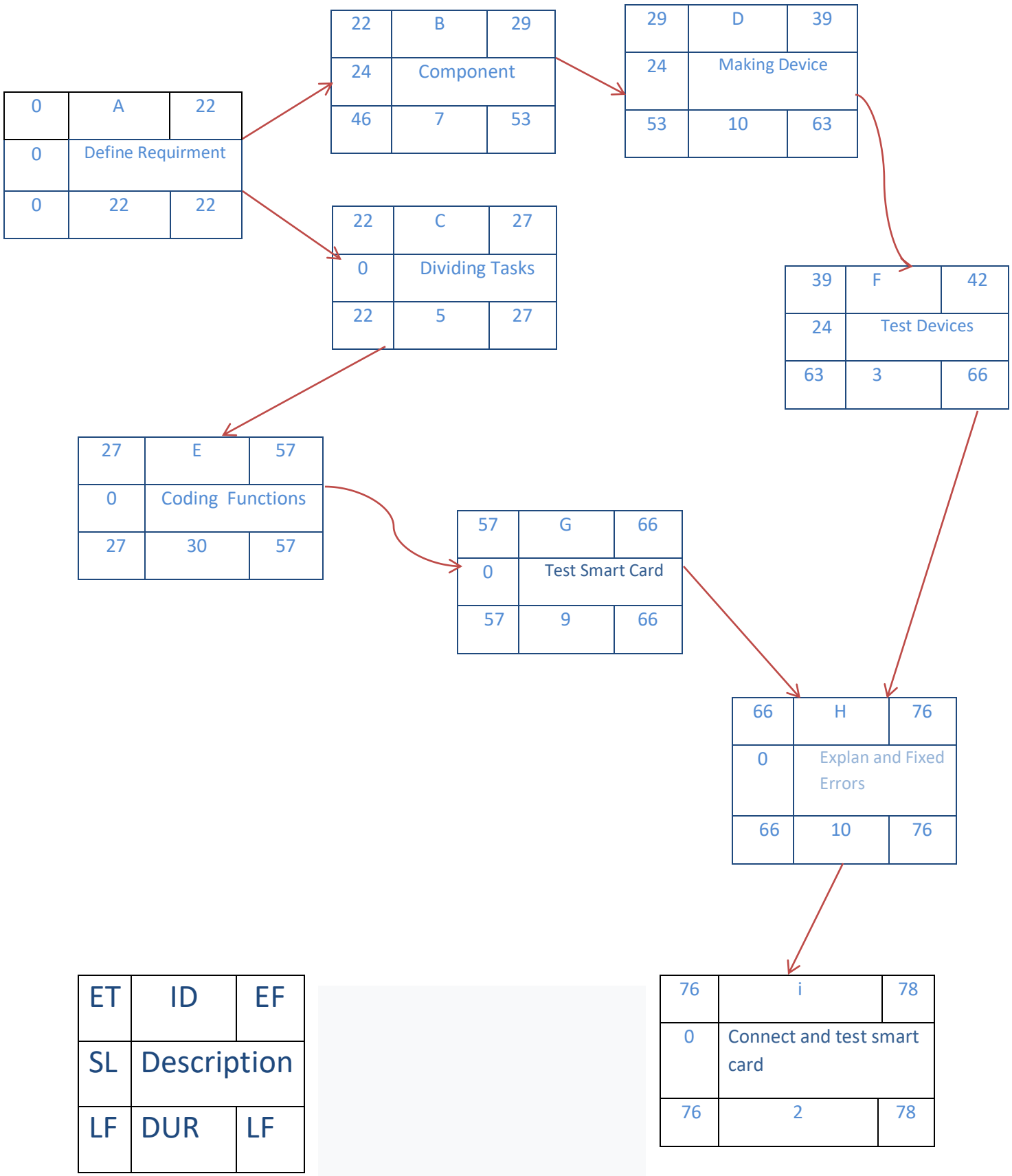
A = Approves

R = Review

P = Participant

C = create

Network


0 A 22
0 Define Requirment
0 22 22
22 B 29
24 Component
46 7 53
29 D 39
24 Making Device
53 10 63
22 C 27
0 Dividing Tasks
22 5 27
39 F 42
24 Test Devices
63 3 66
27 E 57
0 Coding Functions
27 30 57
57 G 66
0 Test Smart Card
57 9 66
66 H 76
0 Explan and Fixed Errors
66 10 76
76 i 78
0 Connect and test smart card
76 2 78
ET ID EF
SL Description
LF DUR LF

Resources

ID	RES	DUR	ES	LF	SL	1	2	3	4	5	6	7	8	9	10	11	12
1	2P	3	0	22	0	2	2	2									
2	4P	1	22	53	3				4								
3	1P	1	22	27	0				1								
4	3P	2	29	63	3					x	x	x	x	2	2		
5	4P	4	27	57	0					4	4	4	4				
6	1P	1	39	66	3									1			
7	1P	2	57	66	0									1	1		
8	2P	1	66	76	0											2	
9	2P	1	76	78	0												2
Total resource load						2	2	2	5	4	4	4	4	4	3	2	2
Resource available						5p	5p	5p	5p	5p	5p	5p	5p	5p	5p	5p	5p

Time baseline

ID	Budget	1	2	3	4	5	6	7	8	9	10	11	12
A	60	20	20	20									
B	10				10								
C	5				5								
D	50				25	25							
E	40					10	10	10	10				
F	5									5			
G	10									5	5		
H	10											10	
I	10												10
TOTAL	200	20	20	20	15	35	35	10	10	10	5	10	10
Cumulative		20	40	60	75	110	145	155	165	175	180	190	200

Cost By Week : -

A	20	20	20	
B	10			
C	5			
D	25	25		
E	10	10	10	10
F	5			
G	5	5		
H	10			
I	10			

Risk Manageent

There are some risks facing the project,including : -

1_ increase in the cost :-

- we can deal this risk through,Reducing project reqirements.

2_ people not interact with modern technology.

- _we can deal this risk through,Good marketing by spreading the benfit of the project and its importance.

3_the possibility of hacking the device.

_we can deal this risk through,increase the protection of the device and know is trying to hack the device.