

Protect Journalists

“WE HAVE TO PROTECT ALL JOURNALISTS, AND
JOURNALISTS HAVE TO BE ALLOWED TO DO THEIR JOBS ”



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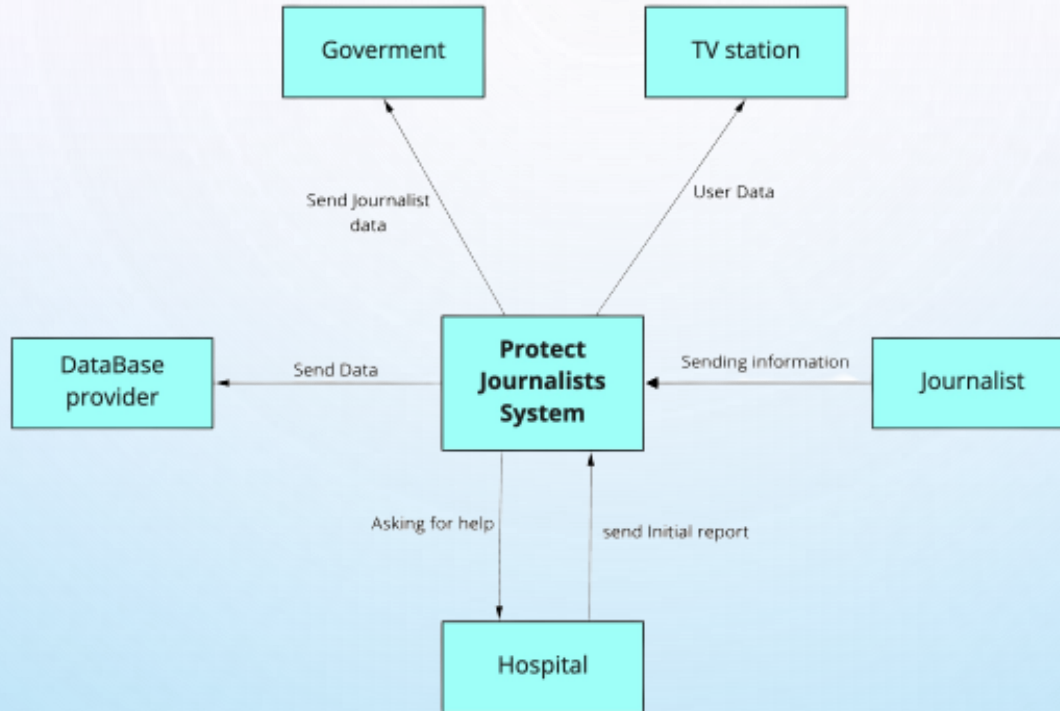
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PURPOSE OF OUR PROJECT

Protect Journalists Project, is a watch and a tag that is made especially for journalists to help them to be safe and protected, mainly in critical and serious conditions like wars. The journalist will be tracked by the foundation he works to. As a result, they will help exactly on time when they need it.

Moreover, all parties involved in the war will be aware of the location of the press, in order not to obstruct their presence in any dangerous way, in an official capacity, after signing international treaties not to use this tracking in the wrong way. Journalists will be able to ask for any health service by pressing on the watch, and their health records will be provided to the nearest hospital such as blood transport or any Allergy to certain substances. Furthermore, both watch and tag will be waterproof and can't be easily damaged, so in any condition, both will help the journalists to be safe as possible as could be.

CONTEXT DIAGRAM :



RISKS:

- **Find a suitable time for all members of the group (lack of time management).**
- **Lack of communication among team members (can't determine the appropriate for all members during the meeting or work).**
- **With all the communication channels and gadgets at our disposal, sometimes team members neglect the critical components of effective communication, leading to loss of data or misinformation and eventual project disruption.**
- **Lack of experience and knowledge of team members, which may lead to misunderstanding of project requirements.**
- **Low skills in using PowerPoint and UML tools.**



FEASIBILITY STUDY

01

ECONOMICAL
FEASIBILITY

04

SCHEDULE
FEASIBILITY

02

TECHNICAL
FEASIBILITY

05

LEGAL
FEASIBILITY

03

OPERATIONAL
FEASIBILITY

ECONOMICAL FEASIBILITY:

- ❑ **Determine the project's expenditures and anticipated revenues.**
- ❑ **Infrastructure (servers, internet, computers) provide.**
- ❑ **Competitors' analyses using a comparable system.**



PROJECT BENEFITS

-Economic Feasibility:

TANGIBLE BENEFITS

Year 1 through 7

BENEFIT TITLE	Cost	DESCRIPTION
Cost reduction and avoidance.	9,000\$	-Reduce the coverage of the war.
Error reduction.	10,000\$	-Cost of equipment and consumption.
Increased flexibility.	5,000\$	
Increased speed of activity.	3,000\$	-By increasing the speed of reporting news through developing their performance and facilitating and securing their moving from place to an other.
Improvement of management planning and control.	12,000\$	-Increasing the efficiency of the work because of the awareness of the organizer over the team's positions
Total tangible benefits.	39,000\$	-Increasing the field of press coverage due to the ease of operation due to safety and facilities.

PROJECT BENEFITS

-Economic Feasibility:

INTANGIBLE BENEFITS

BENEFIT TITLE

- Faster decision making.
- Availability of new, better, or more Information.
- More confidence in decision quality.
- Improved processing efficiency.
- Positive impacts on society.

PROJECT COSTS

-Economic Feasibility:

Tangible Cost	Intangible Cost
• Hardware Costs.	Operational inefficiency.
• Database Cost.	Less team experience.
• API Cost.	Loss of customer trust.
• Testing Cost.	
• Operational costs.	

PROJECT COSTS

-Economic Feasibility:

TANGIBLE COSTS

One-time cost

Year 0.

These costs encompass activities such as:	Cost
Systems development	14,000\$
New hardware: <ul style="list-style-type: none">▪ Smart bracelet material.▪ GPS electronics.	10.000\$
Software purchases.	2,500\$
User training.	2,000\$
Site preparation.	4,000\$
Data or system conversion.	0
Total One-time cost	32,500\$

PROJECT COSTS

-Economic Feasibility:

TANGIBLE COSTS

Recurring cost

Year 1 through 5

Examples of these costs include:	Cost
Application software maintenance.	20,000\$
Incremental data storage expenses.	2,600\$
Incremental communications.	4,000\$
Software.	2000\$
Hardware.	1000\$
Supplies and other expenses.	0
Total Recurring cost	29,600\$

- The initial investment of a project in year 0 amounts to 100k \$ while the cash flow generated by the project will begin at 40k \$ in one year and increases by 10k \$ each year until year 5 Assume the Count Rate is 20% would you **Accept** this project ???

Year	Date	Cash flow	Pv
0	31/12/2022	-100K	-100K
1	31/12/2023	40K	33.33K
2	31/12/2024	50K	34.72K
3	31/12/2025	60K	34.72K
4	31/12/2026	70K	33.75K
5	31/12/2027	80K	32.15K

$$Npv = -100 + 168.67 = 68.67$$

$$\text{Break even Point in Units} = 25000 / (75 - 50) = 1000$$

ROI

Cost		Benefits	
Category	Amount in \$	Category	Amount in \$
Infrastructure	25,000	Reduced defect and rework	70,000
Vendor	18,000		
Training	12,000	Improved cycle time	47,500
Work effort	50,000		
Total	105,000	Total	117,500

ROI = (117,500 – 105,000) / 105,000 = 11.9048%

Net Benefit = 12,500 \$

TECHNICAL FEASIBILITY:

Related knowledge bases and journalists' data The main functions of protected a journalists information system include:

health insurance, personnel management, staff list, attendance record, Holiday log , cost and budget management, and management of complex skills The results of research conducted in wars showed, journalist's information systems need better technology to develop, and most of the systems implemented in terms of technology have problems, in addition to need to know Where there is an urgent need to locate journalists accurately and alert to their presence (this is done via GPS devices) in addition to computers to follow their movement and a database to store all their movements the presence of LAN network communication and integration between systems .

Another study has stated that a network's insufficient speed results in poor performance. Also, despite information systems being implemented for many years, there are contradictory reports of problems with these systems in the USA. In some studies has been pointed out that these systems are faced with technological problems and lack of electronic communication between organizations, lack of proper hardware and software equipment and shortage of technical staff .

While other findings have stated necessary infrastructures in terms of additional equipment, a centralized network, a database to deploy a system and access to external databases as efficient.

Therefore, in implementing systems, it is necessary to consider various factors, especially technological needs. Given that a system feasibility study and analysis leads to a better understanding of the system and can be used to improve health care delivery and enhance the function of each component of the system .

OPERATIONAL & SCHEDULE FEASIBILITY:

- **OPERATIONAL FEASIBILITY:**

- is the measure of how well the project will support the customer and the service provider during the operational phase
- process : input and analysis from everyone the new redesign will affect along with a data matrix on ideas and suggestions from the original plans. evaluation – determinations from the process suggestions; will the redesign benefit everyone? who is left behind? who feels threatened?

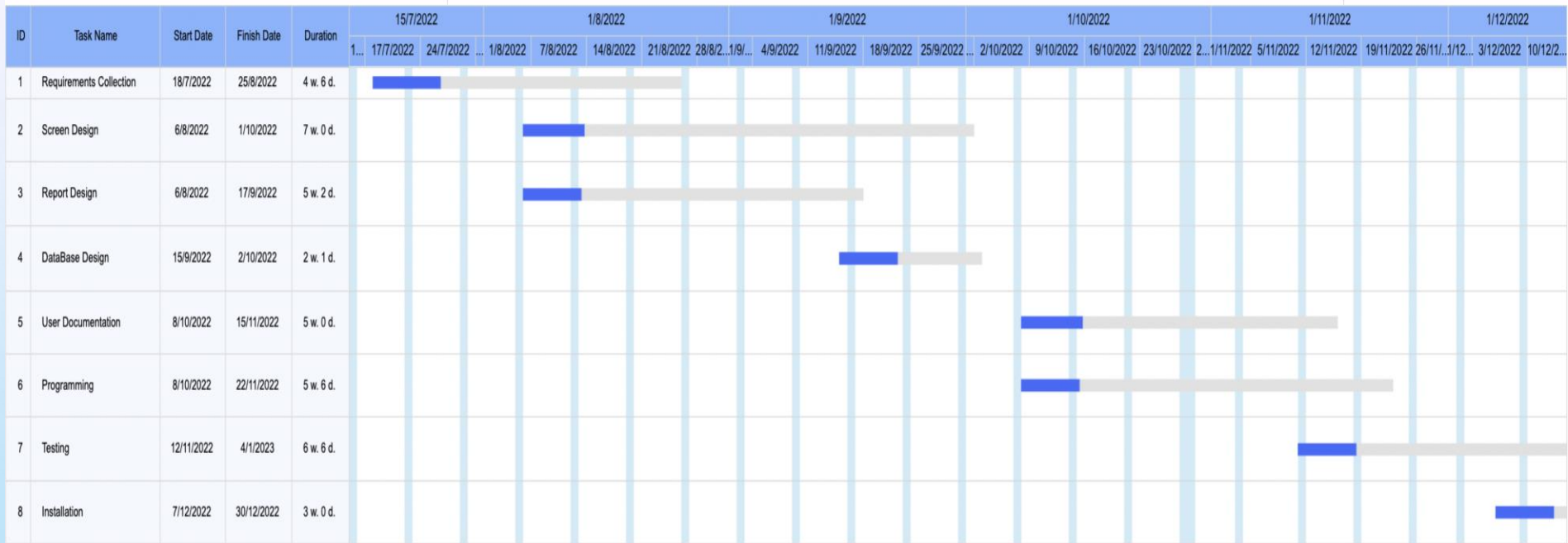
- **LEGAL FEASIBILITY**

- LAWS THAT MAY RESTRICT INVESTMENT IN A JURISDICTION AND ANY VALUATIONS REQUIRED AS A MATTER OF LAW OR PRUDENT PRACTICE.
- MAINTENANCE OF SHARE CAPITAL RULES THAT MAY APPLY, AND/OR WHETHER ANY CAPITAL REDUCTION MAY NEED TO BE CARRIED OUT.
- CONSTITUTIONAL DOCUMENTS OF AN ENTITY THAT MAY NEED TO BE AMENDED TO ALLOW FOR THE INTENDED TRANSACTIONS.

SCHEDULE FEASIBILITY

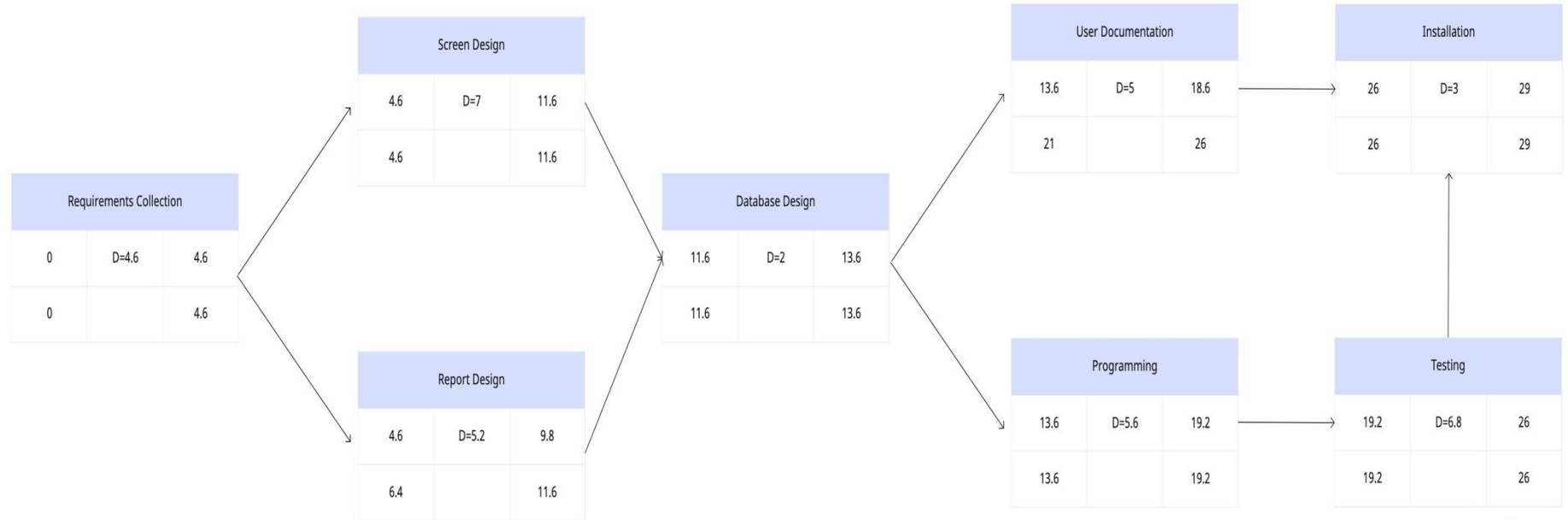
- If we run out of time, we assign assignments to team members to expedite the process. Each job is then examined individually and changed as needed.
- Hold regular gatherings to work on the project with the team members and discuss the issues that will be brought up.
- To complete the job on time, early planning was done.
- We need to get to work on that as we still have time to complete it before the conclusion of the current semester.





Pert Calculation				
Activity	Time Estimate (Week)			Expected Time ET = (o + 4r + p)/6
	O	R	P	
Requirements Collection	3	5	6	4.8
Screen Design	5	7	9	7
Report Design	4	5	7	5.2
Database Design	1	2	3	2
User Documentation	4	5	6	5
Programming	2	6	8	5.6
Testing	4	7	9	6.8
Installation	3	3	3	3

PERT CHART



PERT CHART

- **Critical path** : requirements collection - screen design - database design – programming - testing – installation .
- **Non critical path** : report design - user documentation .
- **Free float of** (report design and database design activities) :
 $(11.6) - (4.6) - 5.2 = 1.8$.

TECHNIQUES

1) Interviewing individuals with journalist :

we discuss the risks they face while they are doing reports and doing press coverage.
also we explain our product to get a initial feedback or any recommendations or suggestions.

2) Observing workers (we did it by two ways) :

1- we went on tours with journalists while they were doing their work.

2- record their work in offices using cameras to see the real process.

3) We had search about many thing in google like technical feasibility study we need ,
what kind of project we can do and collect information about our project .

FUNCTIONAL REQUIREMENTS

Admins should be able to (Administrator) :

- 1) Sign in and log out.
- 2) Access the journalist's general information.
- 3) Have only access to add new users to the system.
- 4) Keep tracking of any journalist at any time.

The journalist should be able to

- 1) request for medical service at any time.
- 2) Log in using your fingerprint.
- 3) Get alert in case of an air strike is approaching

Hospitals and trusted medical canters should be able to get the journalist main health information once journalist request a medical help by QR.

Tv station : RECEIVE JOURNALIST INFORMATION

System should be able to provide offline tracking and locating journalist using sensors and wins technology.

The parties involved in the war can obtain the location of the journalist, but without informing them about their personal information.

NON-FUNCTIONAL REQUIREMENTS

Security:

Each system user should have independent accessibility.
The database can be accessed only by system developers.

Privacy:

Provide the system's main service (journalist location) without journalist personal information.

maintainability:

Easy integration and maintenance without affecting the availability of the system.

Efficiency:

Hardware should be high quality.
Devices work with solar cells or battery that has a warranty.

Testability:

The system shall be easy to test.
The system shall be easy to report errors.

NON-FUNCTIONAL REQUIREMENTS

Usability:

The system is easy to use for everyone fluent in Arabic-English, and for those who aren't good with technology.

Recoverability:

The system should be recoverable.

The system shall backup every 24 hours.

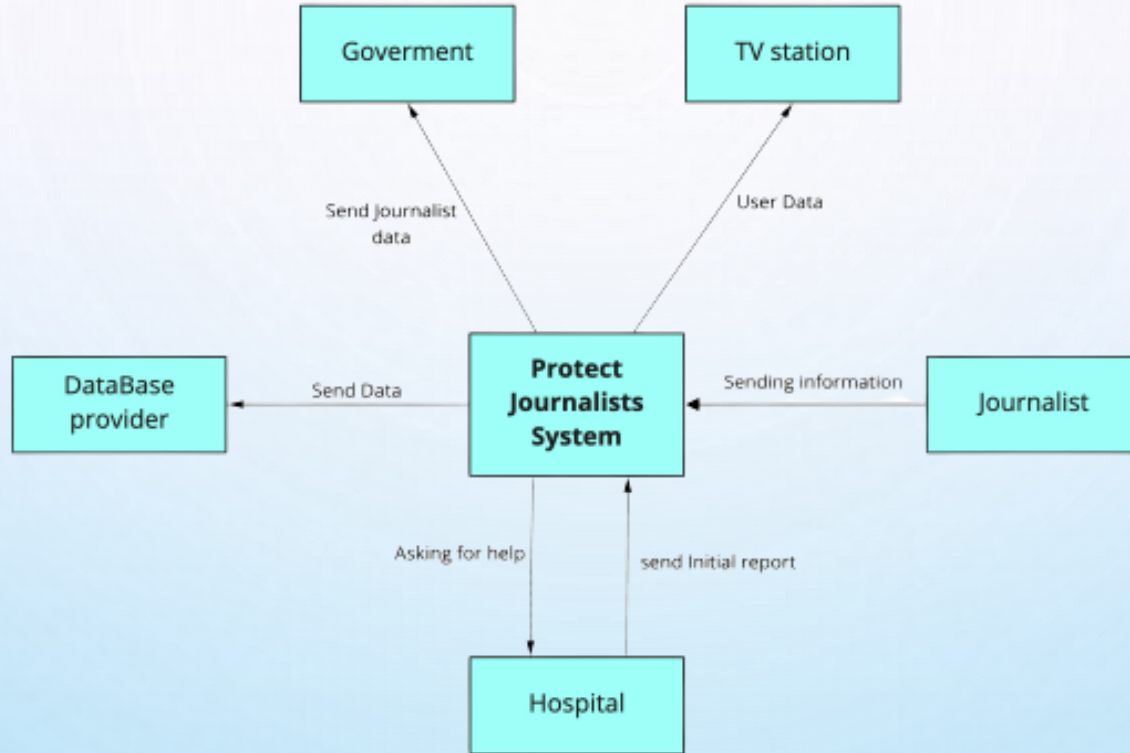
In the situation of a system crash, the estimated loss of data shall be less than 0.01%.

Availability:

The system shall be available twenty-four hours.

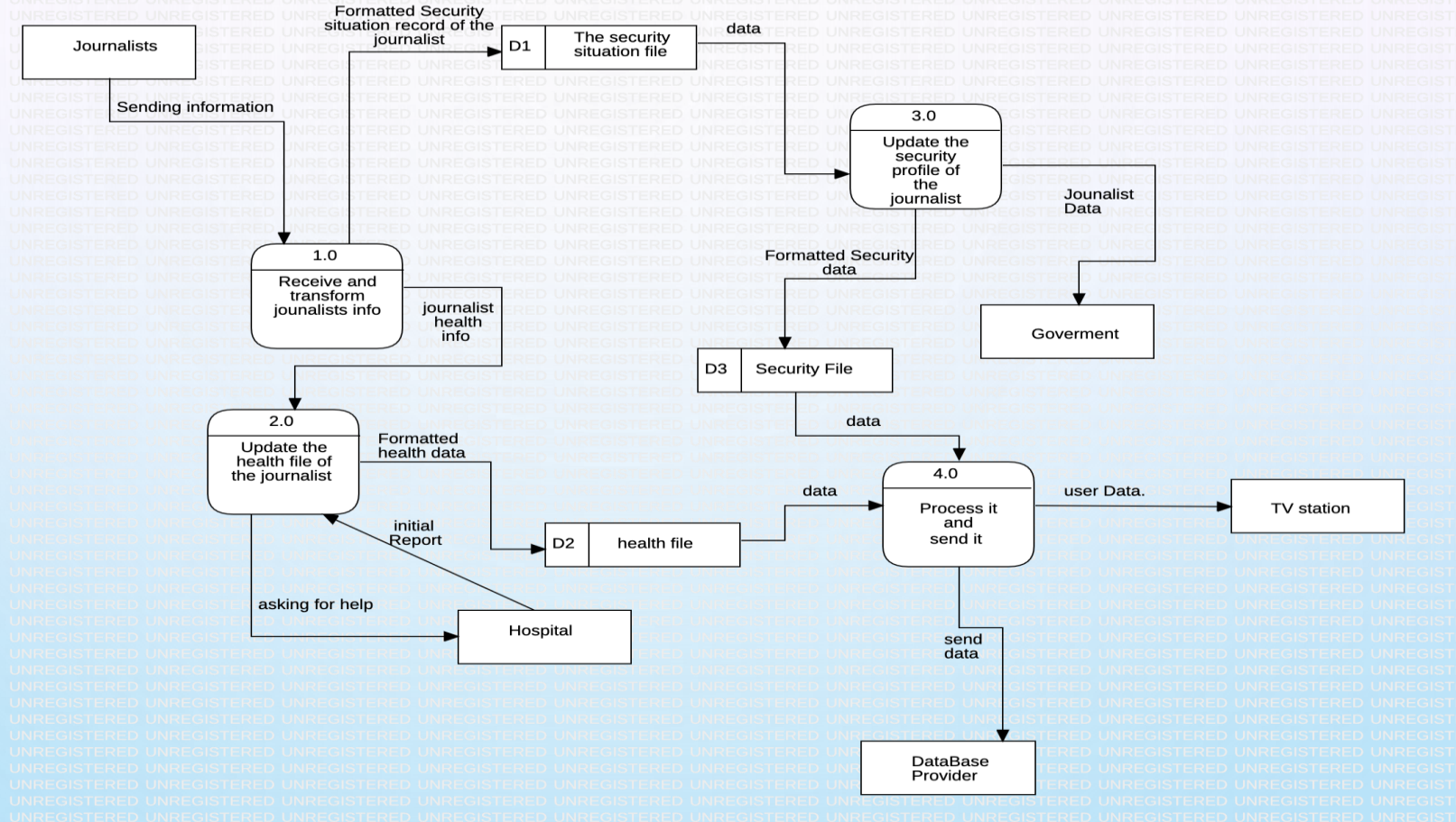


CONTEXT DIAGRAM :



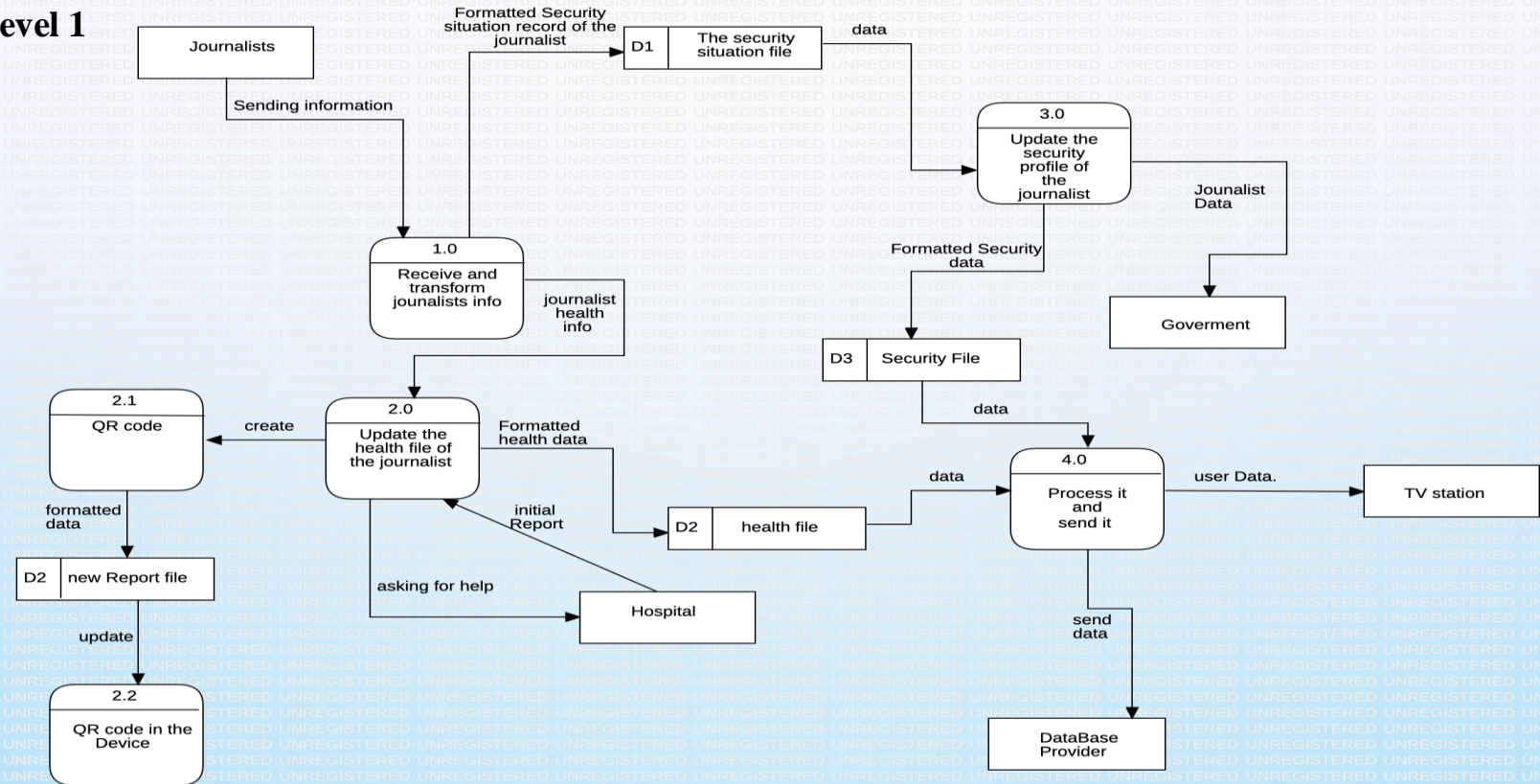
DATA FLOW DIAGRAM (DFD):

A) Level 0



DATA FLOW DIAGRAM (DFD):

b) Level 1



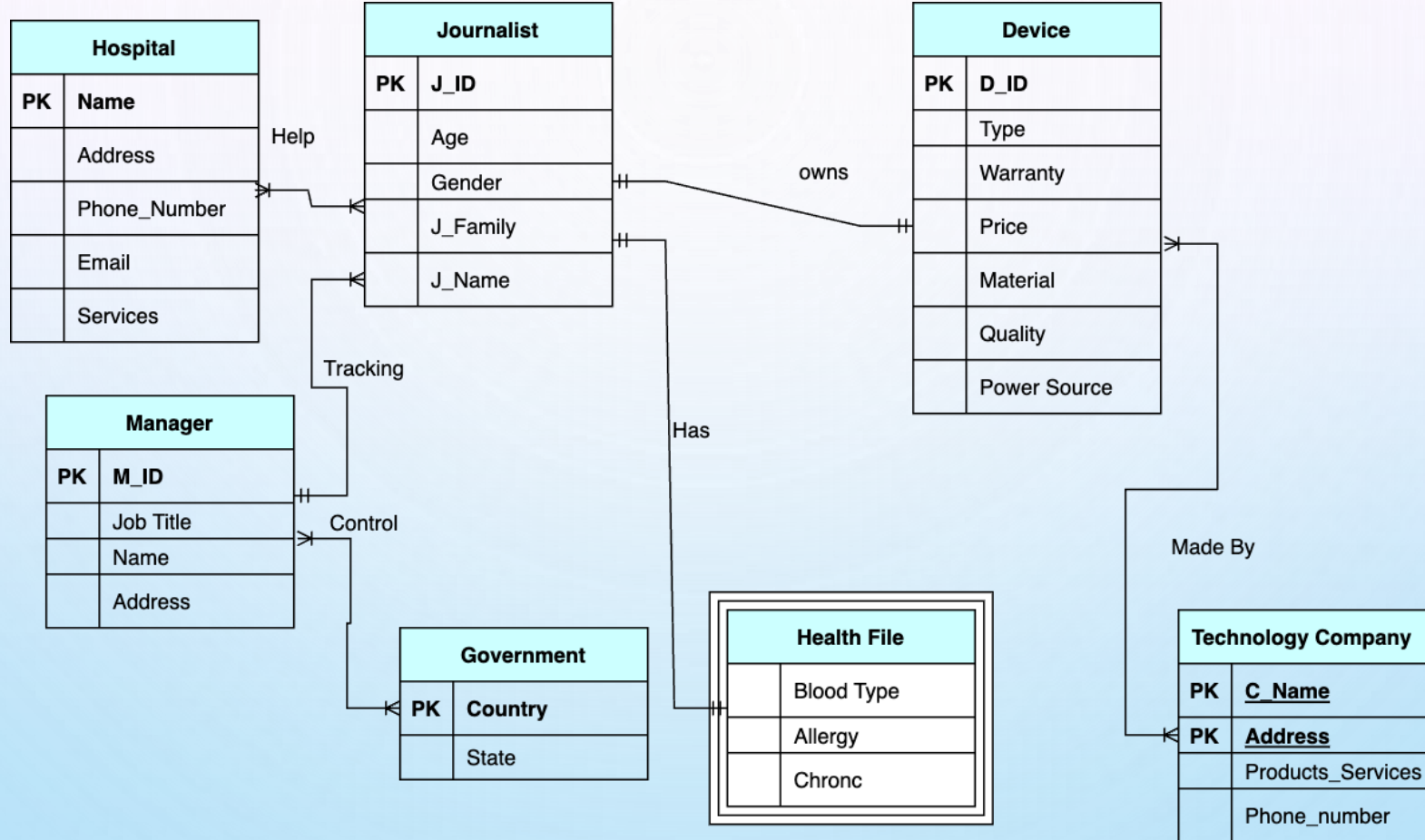
2	3
35>	35
H	M
X	
X	X

	Conditions/ Courses of Action	Rules							
		1	2	3	4	5	6	7	8
condition Stubs	Material Quality	H	L	H	L	H	L	H	L
	Solar Cells	Y	Y	N	N	Y	Y	N	N
	Shape	W	W	W	W	T	T	T	T
Action Stubs	High Price	X	X	X		X			
	Increase the duration of press converge	X	X			X	X	X	
	Battery Warranty			X	X			X	X
	Material Quality : H=high quality , L=low quality . Solar Cells : Y =yes include solar cells , N= no include solar cells. Shape : W= watch , T=tag .								

Simplifying DECISION TABLE :

	Conditions/ Courses of Action	Rules			
		1	4	5	8
condition Stubs	Material Quality	H	L	H	L
	Solar Cells	Y	N	Y	N
	Shape	W	W	T	T
	High Price	X		X	
Action Stubs	Increase the duration of press converge	X		X	
	Battery Warranty		X		X

ENTITY RELATIONAL DIAGRAM (ERD):



Type of testing

we use the white box

Condition	Valid partitions	Tag	Invalid partitions	Tag	Valid boundaries	Tag	invalid boundaries	Tag
Username	2-15 charters	V1	>64 Invalid varchars Null	T1 T2 T3	2 varchars 64 varchars	A1 A2	1 varchar 65 varchars	B1 B2
Full name	4-64 varchars	V2	>64 Invalid varchars Null	T4 T5 T6	4 varchars 64 varchars	A3 A4	1 varchar 65 varchars	B3 B4
email	2-64 varchars	V3	Not found “@” and ”.” >64 Invalid varchars Null	T7 T8 T9 T10	2 varchars 64 varchars	A5 A6	1 varchar 65 varchars	B5 B6
password	8-32 varchars	V4	<8 >32 Invalid varchars Null	T11 T12 T13 T14	8 varchars 32 varchars	A7 A8	7 varchars 33 varchars	B7 B8
Phone number	10 digits only Start with [078,079,077]	V5	>10 <10 NO digit Not begin with 07	T15 T16 T17 T18	10 digits Start with [078,079,077]	A9 A10	11 digits 9 digits MORE THAN 11	B9 B10 B15
Select Gender	Male, Female	V6	Null	T19	Male, Female	A11	Null	B11
Select Countries	JO, USA...Etc	V7	Null	T20	JO, USA...Etc	A12	Null	B12
Enter City	2-64 varchars	V8	>64 Null Invalid varchars	T21 T22 T23	2 varchars 64 varchars	A13 A14	1 varchar 65 varchars	B13 B14

Test case	Description	Expected outcome	Tags cover
1	Username: Alaa Full name: Alaa jamal Abdalqader Email: AlaaJamal@gmail.com Password: Alaa123456 Phone number: 0797013327 Select Gender: Female Select Countries: JO Enter City: Amman	Pass	V1, V2, V3, V4, V5, V6, V7, V8, A1, A3, A5,A7, A9,A11, A13, A15
2	Username:rahaf Full Name: rahaf sammah Email: Rahaf@gmail.com Password: Rahf122323 Phone number: Select Gender: Select Countries:USA Enter City: Amman	Fail	V1V2V3V4V7V8 T17,T19 A2,A4,A6,A8,A12,A14 B11

Test case	Description	Expected outcome	Tags cover
3	Username: FullName:aluchbycybyguybuyvbuyvbdvfyuregvuerygvugvyuer gveygvvygyvguygvyegevyergvygyrgyvguyvvygyrgvyrgvyryvyg vygyrgvygygvyrvgvygerygyrvgyvuttfrdrftyufyfytfty. Email: Alagyргеuefggrwtmnbvfdrtgmail.com Password: ajh87yerher778erw7wev87rv7rvyrr87h7reh7e7vre8vrevrevr Phone number: 2098918827 Select Gender: Select Countries: EnterCity: joradnbudaygcyuregygyvyugyvvuevFGERERGGreyg	Fail	T3,T4,T7,T14,T18,T19,T20,T23 B2,B4,B6,B8,B10,B11,B12,B14
4	Username:A Full Name: J Email: A Password: ALAA12 Phone number:793331432 Select Gender: Select Countries: Enter City: J	Fail	T1, T4, T7, T8, T11, T16, T18, T19, T20, B1, B3, B5, B7, B10, B11, B12, B13, B15

Test case	Description	Expected outcome	Tags cover
5	Username:ALAA FullName: Email: Password: Phone number: Select Gender: Fmale Select Countries:Jo EnterCity:	Fail	V1,T6T10,T14,T17,V6,V7,T22, A2,B11,B12
6	Username:alaa Full Name: jaml43245%%3\$5\$% Email: alaanadakj88####u9 Password: 8784238472sdjiudh(^4@@ Phone number:0328087834343242332423432423432423423 Select Gender: Select Countries: Enter City:	Fail	V1,T5,T7,T9 ,T13,T15,T18, T19,T20,T22 A2,B15,B11,B12



**“A PICTURE IS
WORTH A
THOUSAND WORDS”**