

## **KNOW YOUR COLLAGE**

### **PROJECT CHARTER**

---

*3/1/2022*

**SOHA MOHAMED AHMED  
AYA KHALED ABD-ELLAH  
ROLA ALAA ELDEEN MOHAMED**

## TABLE OF CONTENTS

<b>1 INTRODUCTION .....</b>	<b>3</b>
1.1 Purpose of Project Charter.....	3
<b>2 PROJECT AND PRODUCT OVERVIEW .....</b>	<b>3</b>
<b>3 BUSINESS CASE.....</b>	<b>3</b>
<b>4 PROJECT SPONSER.....</b>	<b>3</b>
<b>5 PROJECT MANAGER.....</b>	<b>4</b>
<b>6 BUDGET ESTIMATE.....</b>	<b>4</b>
6.1 Funding Source.....	4
6.2 Estimate .....	4
<b>7 KEY DELIVERABLES .....</b>	<b>4</b>
<b>8 PROJECT RESOURCES .....</b>	<b>5</b>
<b>9 ASSUMPTIONS, CONSTRAINTS AND RISKS .....</b>	<b>6</b>
8.1 Assumptions .....	6
8.2 Constraints.....	6
8.3 Risks .....	6

## 1 INTRODUCTION

### 1.1 PURPOSE OF PROJECT CHARTER

-To help the students after high school to explore the collages, their respective departments, and labor market is available for them. Trying to help the student to choose his/her collage that suits his/her tendency and interest.

-Help the newcomers to figure out the student activities and how to join with them. Also they will learn about the courses and what is the important to study.

## 2 PROJECT AND PRODUCT OVERVIEW

The application will be formed in organized way to show the information from trusted sources (e.g., teaching assistant) about the colleges and their departments in details. The developers will establish app in 12 weeks and that will cost 1000\$ to be finished.

## 3 BUSINESS CASE

After high school, the student gets confused and distracted about choosing a collage and asks the others “what is the best collage to get into?”

Listening many opinions and points of view that are untrustworthy makes the decision more complicated.

## 4 PROJECT SPONSER

- Student activities (website, phone number, PR)
- Teaching Assistant (the university website)
- Course centers (phone number)

## 5 PROJECT MANAGER

-AHMED ABD-ELKAREEM ELSHERIF

TEL: 01011215547

## 6 BUDGET ESTIMATE

### 6.1 FUNDING SOURCE

- Advertisements
- Universities
- Download the app

### 6.2 ESTIMATE

WBS Items	1	2	3	4	5	6	7	8	9	10	11	12	total
1-Data base													
Research	1	1											
2-site software development													
HTML Design and creation			2	2									
Back end software			0.5	0.5	0.5	0.5							
Graphics							2	2					
Content creation									0.5	0.5			
3-Testing and processing the application											1	1	
Totals	1	1	2.5	2.5	0.5	0.5	2	2	0.5	0.5	1	1	15

## 7 KEY DELIVERABLES

- The information must be reliable.

- The design of the app is organized.
- Easy to use.

## 8 PROJECT RESOURCES

Project resources simply mean resources that are required for successful development and completion of project. These resources can be capital, people, material, tool, or supplies that are helpful to carry out certain tasks in project. Without these resources, it is impossible to complete project. In project planning phase, identification of resources that are required for completion of project and how they will be allocated is key element and very important task to do. In project management, some resources that are required are assigned to each task of project to get job done.

There are three types of resources that are considered and are very essential for execution of project and completion of project on time and on budget. These resources can be denoted by pyramid which is also known as Resource Pyramid.

- **Human Resource –**

Human plays an important role in software development process. No matter what size is and how much complexity is there in project, if you want to perform project task in an effective manner, then human resources are very essential. In software industry, people are assigned some organizational positions such as manager, software developer, software testing, engineer, and so on. These positions are according to their skills and specialty.

- **Reusable Components –**

For bringing ease in software development process or to accelerate development process software, industry prefers to use some ready software components. The components can be defined as the software building blocks that can be created and reused in software development process.

- **Hardware and Software tools –**

These are actually material resources that are part of project. This type of resource should be planned before starting development of project otherwise it way causes problems for the project.

**Examples include:**

- Software licenses
- Hardware like technical infrastructure such as cabling or switches for the IT equipment
- Equipment or machinery (which you might hire for the life of the project or buy)
- Property (again, it might be something you hire for the project such as a temporary cabin on a building site).

## 9 ASSUMPTIONS, CONSTRAINTS AND RISKS

### 9.1 ASSUMPTIONS

- The app contains all the student activities exist, but maybe there is one don't sign in our app.
- There may be no actual photos of faculties provided

## **9.2 CONSTRAINTS**

- 1) TIME**
- 2) LEGAL STATEMENTS AND COPYRIGHT**
- 3) LIMITED RESOURCES**
- 4) BUDGET**

## **9.3 RISKS**

- LOSS OF DATA**
- HACKING**
- SYSTEM MALFUNCTION**

# **PROJECT SCOPE**

---

## **PROJECT SCOPE DESCRIPTION**

Our application software will answer most of the questions asked by students graduated from high schools and scientific research students with the objective of preventing students from taking courses that do not transfer or prepare them for a career. Further, we will analyze and design student support processes and areas that increase student's ability to successfully navigate their way through their educational experience.

## **PRODUCT ACCEPTANCE CRITERIA**

- Successful implementation of student support maps(training and courses proposing)
- Reducing the questions that revolve in the head of every university student or scientific research student after downloading the application
- Providing reliable information while providing all the scientific references on which the information is based

## PROJECT DELIVERABLES

The project will be accepted when it includes all the following:

- Provide a general overview of each college, its departments and study materials
- Determining the skills required for each student studying in a particular field in order to qualify for the labor market, with proposing courses and training to help him acquire these skills.
- Follow-up of all available and expected jobs for each field during college and after graduation.
- Publishing most of the student activities and conferences provided by the university.
- Providing suitable research resources for the title of the thesis for students of scientific research, including books and references, and informing them of the dates, fees, and conditions for applying to their thesis.

## PROJECT EXCLUSIONS

Student success is one of the most important values of this application but everything has limits and so is our application. Since this application is free for all users (you only need internet), we can't provide any information that aren't free



This application intends to give students only the ordered information they need to avoid wrong paths and to clear all rumors said about universities.

## PROJECT CONSTRAINTS

- Application work should follow the values of each University.
- Application should be implemented by 31/12/2022 with review and necessary modifications of 2020/2021 year.
- Budget
- A group of people working on the project should work on taking permissions from some departments and colleges to get some realistic statistics.

## PROJECT ASSUMPTIONS

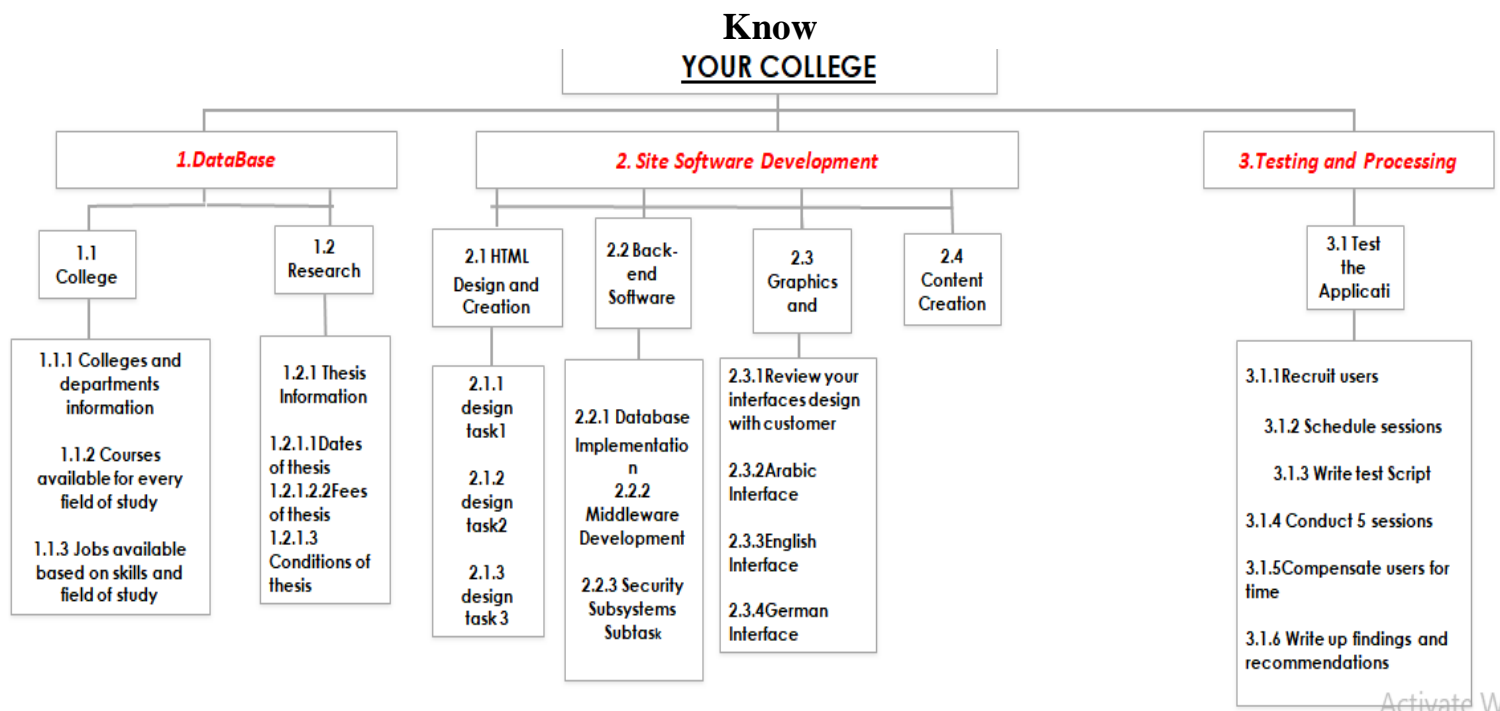
- End users will be available to test during the time they agree to.
- Project costs will stay the same as initially budgeted costs.
- Funding for licenses will be provided by various departments as needed.
- Technology: The team will write the solution in Java.

## WORK BREAKDOWN STRUCTURE

---

- **1Database**
  - **1.1College Students**
    - ❖ *1.1.1Colleges and departments information*
    - ❖ *1.1.2 Courses available for every field of study*
    - ❖ *1.1.3 Jobs available based on skills and field of study*

- **1.2 Research Students**
  - ❖ **1.2.1 Thesis Information**
    - 1.2.1.1 Dates of thesis
    - 1.2.1.2 Fees of thesis
    - 1.2.1.3 Conditions of thesis
- **2 Application Software Development**
  - **2.1 HTML Design and Creation**
  - **2.2 Back-end Software**
    - ❖ 2.2.1 Database Implementation
    - ❖ 2.2.2 Middleware Development
    - ❖ 2.2.3 Security Subsystems
  - **2.3 Graphics and Interface**
    - ❖ 2.3.1 Review your interfaces design with customer
    - ❖ 2.3.2 Arabic Interface
    - ❖ 2.3.3 English Interface
    - ❖ 2.3.4 German Interface
  - **2.4 Content Creation**
- **3 Testing and Processing**
  - **3.1 Test the Application with 5 app users**
    - ❖ 3.1.1 Recruit users
    - ❖ 3.1.2 Schedule sessions
    - ❖ 3.1.3 Write test Script
    - ❖ 3.1.4 Conduct 5 sessions
    - ❖ 3.1.5 Compensate users for time
    - ❖ 3.1.6 Write up findings and recommendations



## WBS DICTIONARY

Level	WBS code and Name	Description	Responsible team member	Deliverable	Acceptance Criteria	Duration	Milestones	Budget	Risks
1	1 Database	All information required to answer the customer questions about colleges and research Students	Soha Mohamed	This deliverable is important for all deliverable but most one is (Provide a general overview of each college, its departments and study materials	Reducing the questions that revolve in the head of every university student or scientific research student after downloading the application  Providing reliable information and providing all the scientific references on which the information is based	1 month	Project launched	2,000 dollars	Inaccurate Estimations due to stress from the stakeholder because of timeframe problems

2	1.1College Students	Obtaining information about college and departments and the skills required to be good at you field of study	Rola Alaa Eldeen	Provide a general overview of each college, its departments and study materials	Providing reliable information and providing all the scientific references on which the information is based	10 days		1000 \$	
---	---------------------	--	------------------	---	--	---------	--	---------	--

3	1.1.1Colleges and department s information	All information about colleges and departments and the difference between them	Rola AlaaEldeen	Provide a general overview of each college, its departments and study materials	Providing reliable information and providing all the scientific references on which the information is based	3 days		300\$	Scope variations due to customer feedback
3	1.1.2Course s available for every field of Study	Deep search about courses related to every college and designing initial courses maps to every field of study	Aya khaled	Publishing most of the student activities, courses, and conferences provided by the university	Successful implementation of student support maps(training and courses proposing)	3 days		200\$	
3	1.1.3Jobs available based on skills and field of study	The application must be aware of all changes in the local and global market to provide the best jobs available at the present time	Aya Khaled	Follow-up Of all available and expected jobs for each field during college and after graduation	Reducing the questions that revolve in the head of every university student or scientific research student after downloading the application	4 days		500\$	
2	1.2Research Students	Providing all about Scholarships and Thesis information for Research Students and keeping them alerted about jobs available	Soha mohamed	Suitable research resources for the title of the thesis for students of scientific research, including books and references, and informing them of the dates, fees, and conditions for applying to their thesis.	Successful implementation of student support maps (training and courses proposing).	20 days		2000\$	

## Know Your Collage

3	1.2.1Thesis information	Providing all Thesis information for Research Students and keeping them alerted about fees, dates and conditions	Soha Mohamed	Suitable research resources for the title of the thesis for students of scientific research, including books and references, and informing them of the dates, fees, and conditions for applying to their thesis.	Successful implementation of student support maps (training and courses proposing).	5 days		2000\$	
4	1.2.1.1Dates of Thesis	Providing all information about dates of thesis (like start date, finish date)	Soha Mohamed	Suitable research resources for the title of the thesis for students of scientific research, including books and references, and informing them of the dates, fees, and conditions for applying to their thesis.	Successful implementation of student support maps (training and courses proposing).	5 days		600\$	
4	1.2.1.2Fees of Thesis	Providing all information about fees of thesis (and what is suitable for your financial state)	Soha Mohamed	Suitable research resources for the title of the thesis for students of scientific research, including books and references, and informing them of the dates, fees, and conditions for applying to their thesis.	Successful implementation of student support maps (training and courses proposing).	5 days		600\$	

4	1.2.1.3Conditions of thesis	Providing all information about conditions of thesis (local and international conditions)	Soha Mohamed	Suitable research resources for the title of the thesis for students of scientific research, including books and references, and informing them of the dates, fees, and conditions for applying to their thesis.	Successful implementation of student support maps (training and courses proposing).	5 days		800\$	
1	Application Software Development	Developing and designing the application by various technologies and providing website link to support and expand the scope of the application	Rola AlaaEldeen	.1	Successful implementation of student support maps(training and courses proposing)	2.5 months	Executing the plan	10,000\$	
2	2.1HTML design and creation	Designing the shape of the Website	Aya khaled	Designing an application to help students in their college life and after	Successful implementation of student support maps (training and courses proposing).	2 weeks		2,5000\$	
2	2.2 Back-end Software	building and maintaining the core application	Soha Mohamed	Designing an application to help students in their college life and after	Successful implementation of student support maps (training and courses proposing).	6 weeks		2,5000\$	

3	2.2.1Data implementat ion	installation of database software, con figuration and customizatio n, running, testing, integrating with applications	Soha Mohamed			2 weeks		500\$	
3	2.2.2Middle Ware Developmen t	Provides services to software applications beyond those available from the operating system.	Soha Mohamed			2 weeks		500\$	
3	2.2.3Security subsystems	Providing the infrastructur e for all security functionality	Soha Mohamed			2weeks		500\$	
2	2.3Graphics and Interface	implementin g visual elements that users see and interact with in a web application	Aya Khaled	Designing an application to help students in their college life and after	Successful implementati on of student support maps (training and courses proposing).	2 weeks		2,5000\$	
3	2.3.1review your interfaces design with customer	implementin g visual elements that users see and interact with in a web application	Aya khaled			1 week		200\$	



3	2.3.2Interfac es (Arabic, English, German)	implem t g visual elements that users see and interact with in a web application	Aya Khaled			1 week		2,3000\$	
2	2.4Content Creation	identifying topics you want to write about, deciding which form you want the content to take, formalizing your strategy	Aya Khaled			2 week		2,5000\$	
3	3.1 Test the Application with 5 app users	Testing your application with end- users to assure its functionality	Rola AlaaEldee n			2 weeks			

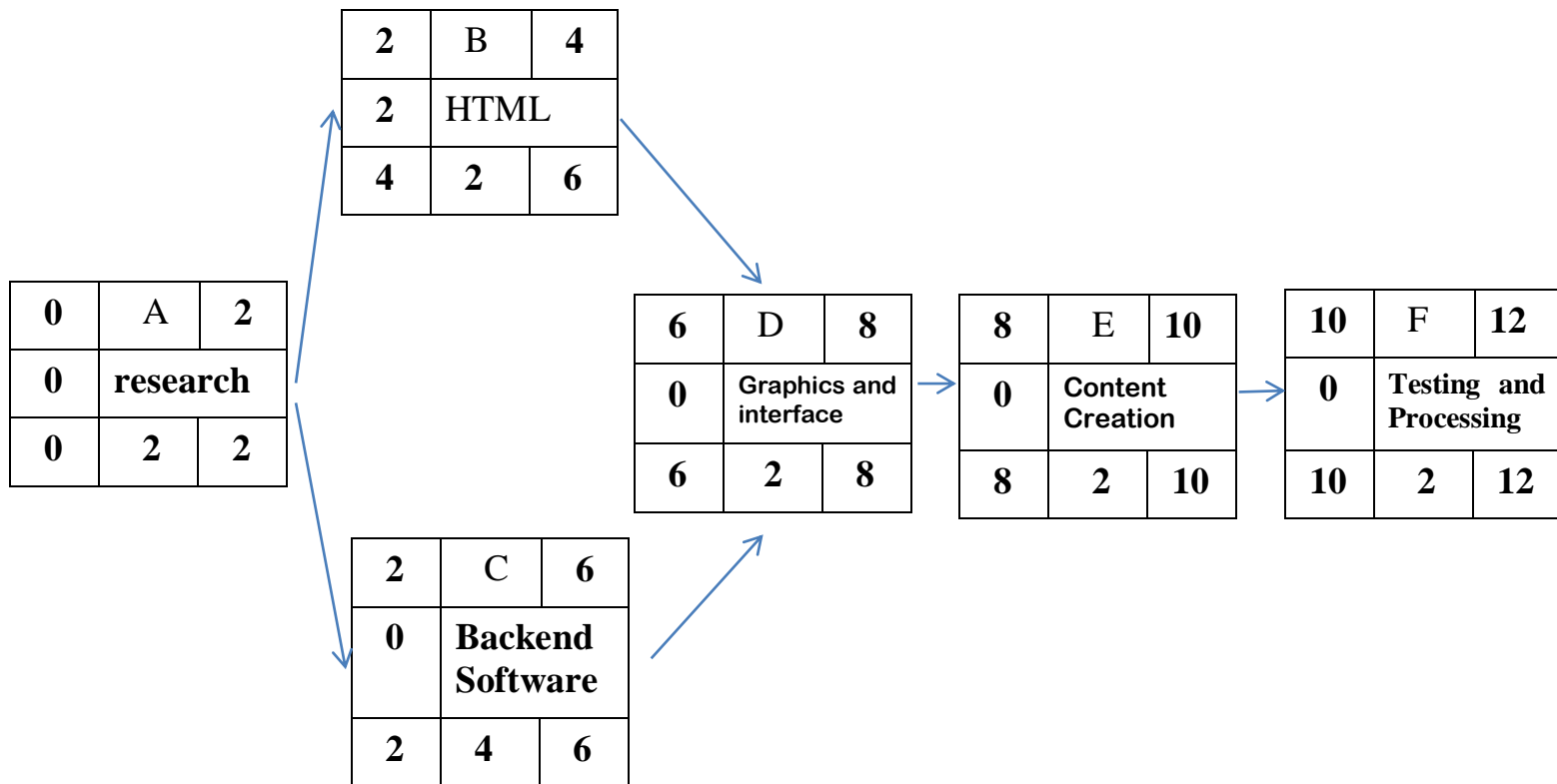
## RESPONSIBILITY MATRIX OF OUR APPLICATION

	<b>Project Manger</b>	<b>Application Developer</b>	<b>Network Engineer</b>	<b>Zen work Experts</b>
<b>Create the application</b>	<b>A</b>	<b>C</b>	<b>P</b>	
<b>Test the application</b>	<b>A</b>	<b>P</b>	<b>P</b>	
<b>Package the application</b>	<b>R</b>		<b>R</b>	<b>P</b>
<b>Test the application release</b>	<b>R</b>	<b>R</b>		<b>C</b>
<b>Push the application to the work station</b>	<b>A</b>		<b>P</b>	<b>C</b>
<b>Prepare the final report</b>	<b>A</b>	<b>P</b>	<b>P</b>	

**A = Approves**  
**R = Reviews**  
**P = Participant**  
**C = Creator**

# NETWORK

---



# RESOURCE CONSTRAINED

ID	RES	DUR	ES	LF	SL	1	2	3	4	5	6	7	8	9	10	11	12		
A	2P	2	0	2	0	2	2												
B	2P	2	2	4	2			X	X	X	X	2	2						
C	2P	4	2	6	0			2	2	2	2								
D	1P	2	6	8	0							X	X	1	1				
E	1P	2	8	10	0									X	X	1	1		
F	1P	2	10	12	0											X	X	1	1

Total resource load	2P	2P	2P	2P	2P	2P	2P	2P	1P	1P	1P	1P	1P	1P
Resource available	3P	3P	3P	3P	2P	2P	2P	3P	2P	1P	1P	1P	1P	1P

## BUDGET BASELINE

---

WBS Items	1	2	3	4	5	6	7	8	9	10	11	12	total
<b>1-Data base</b>													
<b>Research</b>	1	1											
<b>2-site software development</b>													
<b>HTML Design and creation</b>			2	2									
<b>Back end software</b>			0.5	0.5	0.5	0.5							
<b>Graphics</b>							2	2					
<b>Content creation</b>									0.5	0.5			
<b>3-Testing and processing the application</b>											1	1	
<b>Totals</b>	1	1	2.5	2.5	0.5	0.5	2	2	0.5	0.5	1	1	15

# RISK MANAGEMENT & MONITORING

---

Our project is an Application project and so there are number of risks that need to be considered and managed from the outset of a software project

## 1) INACCURATE ESTIMATIONS

Estimations are an often unavoidable part of software development because of the pressure from stakeholders to obtain a price or timeframe .These estimations can create risk if the create expectations that can't be met.

*How do you accurately estimate software? How can you deal with this risk?*

**By some strategies used to minimize the risk like**

- Elaborating only the work that has immediate priority;
- Consider the Cone of Uncertainty when estimating.

## 2) SCOPE VARIATIONS

Scope variations occur when the scope of an iteration changes after a timeframe had been agreed upon. Due to the value from receiving frequent customer feedback, stakeholders or product owners will often ask to vary the scope of a project.

This creates a severe risk to the project as it is hard to keep up with the original timeframe after it has been changed.

In our application, a scope variation has occurred when the product owner wanted to modify a deliverable in our scope (to create website link besides

the application). This impacted our plan severely and we had to change the timeframe and budget.

### *How to manage Scope variations?*

- Using a variation metric to measure the scope changes, allows for greater visibility to the customer of how the requests have impacted the project.
- Elaboration of only prioritized work.

## 3) POOR QUALITY CODE

When the quality of a project does not align with stakeholder expectations, there is a significant risk that the project will not be successful.

Poor quality code can mean a number of things. The code may be difficult to read, meaning it is difficult for other developers to review or make changes. It might have been rushed and released without testing, therefore full of bugs that could have been prevented

### *How can you improve code quality?*

- Code reviews;
- Clear coding standards and guides;
- Testing of all code;
- Appoint a dedicated Product Manager to monitor the quality of the project and take ownership to all stakeholders for the success and failures; and
- The Way of Working.

## 4) LOSS OF DATA

Data loss can happen for a number of reasons and these include accidental deletion, cybercrime, physical damage, and formatting errors.

### *How to manage data loss?*

- Proper training.  
All Team members must understand how the application's data processing and backup systems function.
- Automatisation.  
It simply minimizes human interaction with sensitive data.

## 5) HACKING

In order to avoid Hacking danger, serious cyber – security measures must be put in place.

- Have adequate firewalls and, as said before, use passwords that aren't easy to hack
- The first step in password protection is to always use two-factor authentication.

## 6) SYSTEM MALFUNCTION

Data is often lost due to physical data storage unit malfunction and failure

- We can minimize this risk by using SSD instead of HDDs because it doesn't have any movable parts, and are less prone to malfunction or crash.
- You have always to load your data on drive or any other storage device to be ready in case of any technical risk.