



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

Date

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Course Code

(PMG510)

Project Risk Management

Instructions:

- اخر موعد للتسليم هو يوم السبت 2021-05-08 في تمام الساعة ٩ مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الانجليزية.
- يتم تسليم المشروع في صيغة ملف . pdf مع الالتزام نموذج الجامعة ولن تقبل أي مستندات أخرى.
- يجب مراعاة أقسام البحث الرئيسية (مقدمة Introduction، دراسات علمية سابقة Literature Review، طريقة البحث Methodology، النتائج والمناقشة Results and Discussion ، وأخيراً المراجع References . وان كان هناك ملحقات Appendices يتم إضافتها)
- يجب الالتزام بـ Theme موحد كما يلي:
- حجم الخط 12.
- نوع الخط Arial.
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- عدد صفحات البحث (لا يقل عن ثلاث صفحات ولا يزيد عن ست صفحات).

Instructor's Name: Eng. Mosaab M. Hamed

Introduction:

The project that I am managing at my work is related to the database and technology field as discussed further in the advanced paper. It is to build a clinical database that could be used to enable researchers to do health related research and evaluate drugs safety for the population of Saudi Arabia. It would provide unique prospective to the medical field where many potential benefits could be gained when this database is finished. The phase that the project is on at the moment is on pilot stage where we are testing the system and apply all modifications before the release of it.

In this report I will identify the project risks and prepare the probability matrix for it along with some other tools that I have learned in this course.

Literature Review:

All projects have risks and it could be positive or negative where we as project managers prefer to reduce the negative risk as much as possible and the organizations prefer to increase the positive risk outcome as much as possible. (Raftery, 2003)

however risk is uncertain to happen and is difficult to outline and in many projects it is hard to measure in accuracy but using the tools and techniques for risk management the uncertainty can be somehow collected and forecasted before it can happen. (Raftery, 2003)

Risk analysis and assessment are important these days for all project and there are many ways to apply these assessments to many types of risks. (Hugo, 2018)

With the right information risk can be reduced using the risk analysis available at the time. (Behnia, 2012)

Methodology:

In this report I will be going through some of the tools and techniques to analyze risk for my chosen project.

To begin with, we need to identify all possible risk that could face us in the project by using collective brainstorming with the team and thinking of the future of the project along with its current state. After defining the list of potential risks, we are able to choose the best method to appropriately handle the risks of our project and analysis it.

For our project we have chosen to use a list of risks to monitor along with risk matrix to determine the probability and impact of the risks identified as well as a response plan to act when risk arose.

List of key risks identified:

- 1- Database hacking, malware or viruses
- 2- System error or malfunction
- 3- Team member resigning
- 4- Information not entered correctly
- 5- Electrical shutdown
- 6- Medical record leakage
- 7- Change of health record policy

After listing the major risks identified we used the risk matrix to identify classification and the probability and impact of such risks

Risk classification:

NO	List of risk	probability	impact
1	Database hacking, malware or viruses	20%	3
2	System error or malfunction	30%	3
3	Team member resigning	60%	5
4	Information not entered correctly	30%	4

5	Electrical shutdown	40%	4
6	Medical record leakage	30%	5
7	Change of health record policy	20%	5

Calculating score are shown in the table below:

class	Probability	Impact	Score
Very low	0-20%	1	0-0.2
Low	21-40%	2	0.21-0.8
Moderate	41-60%	3	0.81-1.8
High	61-80%	4	1.81-3.2
Very high	81-100%	5	3.21-5

Results and Discussion:

As a result of the risk analysis of our project we have calculated the probability and the impact in the table below and have combine it with the response plan for the risks

NO	List of risk	probability	impact	Score	Response plan
1	Database hacking, malware or viruses	20%	3	0.6	The system is offline at the pilot phase and will we be doing risk assessment before its online
2	System error or malfunction	30%	3	0.9	Backup database on a daily bases to eliminate the loss of data
3	Team member resigning	60%	5	3	Team members are trained on critical aspects

					of the project to ease the transition when it happen
4	Information not entered correctly	30%	4	1.2	Data are checked twice by 2 different team member to check for accuracy
5	Electrical shutdown	40%	4	1.6	Backup generator is on site to reduce the risk of shut downs
6	Medical record leakage	30%	5	1.5	2 team members are authorized to deal with the data to eliminate excessive access
7	Change of health record policy	20%	5	1	Try to keep updated on the policy and adhere to it

After analysis of the risk we have done an expected monetary value (**EMV**) for the risks listed in our project:

Risk	Risk probability	Cost impact	Risk contingency
1	20%	SAR 5,000	SAR 1,000
2	30%	SAR 5,000	SAR 1,500
3	60%	SAR 25,000	SAR 15,000
4	30%	SAR 2,000	SAR 600
5	40%	SAR 5,000	SAR 2,000
6	30%	SAR 100,000	SAR 30,000
7	20%	SAR 5,000	SAR 1,000

So as we can find in the analysis we can gain numerous advantages from applying these tools to identify and analyze the risk in the project as it make easier for our decision making along with understanding the potential implementation cost of our project.

References:

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- Raftery, J. (2003). Risk Analysis in Project Management. Google Books.
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