



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

Date

Thursday

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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.
- لون الخط أسود.
- المسافة بين الأسطر line spacing 1.5
- عدد صفحات البحث (لا يقل عن ثلاث صفحات ولا يزيد عن ست صفحات).

Instructor's Name: Eng. Mosaab M. Hamed

Project:

Risk Identification and Analysis (Based on the project you chose in APM)

The objective of this report is to identify project risks, prepare a risk probability matrix, and carry out an analysis of selected risks. Referring to the project you select in **Advanced projects management APM course**, your task is to prepare a risk management plan that identifies potential risks in **the selected stage of the project** and identify risk management strategies.

From the course content and readings, you know that the overall purpose of risk planning is to anticipate possible risk events and be ready to take appropriate action when risk events occur—to eliminate or reduce negative impacts on the project.

You may wish to begin this exercise with a brainstorming about potential risks to get candidate risks “on the table” for consideration. And then identify and refine that wording for risks that have some realistic chance of occurring in this stage. For example, potential weather problems present a real obstacle to completing field data collection by the planned completion date. It is also an issue that the project manager will ultimately have to plan for, as opposed to other issues such as a major disaster (e.g., your office burning down), is not a high-enough probability event that requires much time in planning. As described below, you will select several of the identified risks and carry out a risk analysis.

You will use the distilled list of risks to make a risk probability/impact matrix. The matrix will have at least three categories (high/medium/low) for probability and impact.

Remember that it is important to name risks effectively—use words that describe the risk event and point to the impact on the project (e.g., “injury of field technician disrupts data installation work”).

After completion of the risk matrix, document a risk analysis for the selected risks. This detailed documentation for that selected risk will include:

- a description of the risk and potential impacts (schedule, quality of work, cost, etc.) on the project.
- indicators or triggers that would be monitored to help identify the risk as early as possible.
- specific risk response strategies to take.

Using probability and impact matrix calculate the **Expected Monetary Value (EMV)** for all risks that have the impact in terms of cost \$\$.

Best of luck...

المشروع:

التعرف على المخاطر وتحليلها (بحث مبني على مشروعك الذي اخترته في مادة ادارة المشاريع المتقدمة)

الغرض من هذا التقرير هو التعرف على المخاطر المحيطة بالمرحلة التي تختارها المرحلة من مراحل مشروعك (نفس المرحلة التي اخترت التطرق لها في مشروعك لمادة إدارة المشاريع المتقدمة Advanced project management) حيث أن مهمتك هي تحضير خطة متكاملة لإدارة المخاطر تشمل التعريف بالمخاطر المحتملة التي تحيط بتلك المرحلة وتحضير مصفوفة احتمالية المخاطر ومن ثم القيام بالتحليل لهذه المخاطر المختارة وتحديد استراتيجيات ادارة المخاطر المناسبة لكل خطر على حدة.

من محتويات المقرر والمصادر الأخرى المتاحة أصبحت تعلم الآن أن الغرض العام لمرحلة التخطيط للمخاطر هي توقع أحداث المخاطر المحتملة والتجهز لاتخاذ ردة الفعل المناسبة عند وقوع الخطر – لمنع أو تقليل الآثار السلبية على المشروع.

قد تحبذ بداية هذا البحث بعصف ذهني عن ماهية المخاطر التي قد تحيط بتلك المرحلة من مراحل مشروعك, وذلك للحصول على قائمة بتلك المخاطر. ومن ثم تحديد وتصفية هذه القائمة للوصول إلى قائمة مختصرة بالمخاطر التي لها فرصة واقعية أكبر في الحدوث. على سبيل المثال: المشاكل الجوية المتوقعة والتي تمثل عقبة حقيقية أمام اكتمال جمع البيانات من المواقع في أو قبل الوقت المحدد، هذه تعتبر مشكلة على مدير المشاريع أن يضعها في الحسبان. من ناحية أخرى، فإن المخاطر غير الواقعية مثل الكوارث الطبيعية والأعاصير (تلك التي تسبب حريقاً بمكتبك وفقدان الأوراق المهمة) ليست لها احتمالية وقوع عالية وبالتالي لاتستدعي تضيق الكثير من الوقت في التخطيط لها. كما سيتبين لك، ستقوم باختيار عدة مخاطر من تلك التي قمت بالتعرف عليها لتحليلها.

ستقوم باستخدام هذه القائمة المختصرة لعمل مصفوفة المخاطر (الاحتمالية/الأثر). المصفوفة ستحتوي على الأقل على ثلاث تصنيفات (عالي/متوسط/منخفض) للإحتمالية والأثر.

لاتنس استخدام أسماء تصف طبيعة المخاطر بصورة فعالة – قم باستخدام كلمات تصف الحادثة الخطرة وتشير الى أثرها على المشروع (مثل: إصابة أحد الفنيين في الموقع مما يؤثر على أعمال التركيب).

بعد انتهاءك من مصفوفة المخاطر، قم بتوثيق تحليلك للمخاطر المختارة. هذا التسجيل المفصل للمخاطر يجب أن يتضمن:

- وصف للخطر واثاره المحتملة (الجدولة، جودة العمل، التكلفة، الخ)
- المؤشرات والمحفزات التي يجب مراقبتها للمساعدة في التعرف على هذا الخطر قبل وقوعه
- تفصيل للاستجابة المقترحة للتصدي لهذا الخطر

باستخدام مصفوفة الاحتمالات والتأثير ، احسب **القيمة النقدية المتوقعة (EMV)** لجميع المخاطر التي لها تأثير من حيث التكلفة \$\$.

مع تمنياتي بالتوفيق..

(Linking Point Project)

Introduction:

Every project must face some kinds of risks in one or all project phases in its life cycle. To prevent or reduce these risks from occurring, every organization should have Risk Management to identify, assess and control threats to the resources and capital. These threats could come from many sources such as accidents, legal liabilities, financial uncertainty, strategic management errors and natural disasters.

Organizations can adopt Risk Management Strategy to protect their resources and capital. They can: avoid risks, reduce them, transfer them, or accept them. Successful organizations consider the potential risks before they occur as they establish strong policies to prevent future risks.

The potential risks to the Linking Point Project are:

Virus Attack. (Hazard Risk)

Trust issue. (Control Risk)

Competition. (Opportunity Risk)

Literature review:

(The study of Tiwari and Bus): (2007) Mobile banking.

The objectives of the study:

The study emphasized on the importance of the mobile banking and the huge difference between the mobile banking and the traditional banking. Mobile banking is a result of the technology revolution which makes peoples' lives easier.

The results of the study:

The study showed that mobile banking faces many risks such as that the transaction passing on the air is not much secured and some people are not aware of the importance of the technology revolution, so they hesitate to use it or even try it, they are resistant to change.

Research Methodology

Descriptive Methodology is used in this research to study the risk management by gathering information from previous studies.

Risk management strategy:

Potential risks for (Linking Point Project) were identified through a discussion between stakeholders and team members to consider them and give them a high priority when project plan is finalized.

Identifying risks:

Description	Risk			Strategy
	P	S	P*S	
Virus attack	3	5	15	We established a strong security protection system.
Trust issue	2	4	8	منصة We may register in MAROOF. معروف الالكترونية
Competition	2	3	6	We can get competitive edge by being available 24 hours and maintain the best price which is 10 Riyals for every posted CV & 20 Riyals for every posted job vacancy.

Risk Matrix: Shows the risks in a diagram, as it includes risk probability and risk severity where risks are divided based on their probability and impact.

Risk Probability	Risk severity				
	Catastrophic 5	Hazardous 4	Major 3	Minor 2	Negligible 1
Frequent 5					
Occasional 4					
Remote 3	15				
Improbable 2		8	6		
Extremely improbable 1					

EMV: Stands for Expected Monetary Value, it is a risk management technique helps to quantify risks. It is the result of multiplying probability (P) by impact (I)

Risk	P	I	EMV
1	30%	5000	1500
2	20%	4000	800
3	20%	3000	600

Total EMV = 2900.

Record of the risk:

The project manager and his team are aware of these possible risks, they created strategies to prevent or contain the risks and, they assume that these risks could occur any time, in present or even in the future.

Risk and triggers:

Risk	Source	Prevention	Response	Impact
Virus attack	Hackers	Anti-virus systems	System security alarms	System damage
Trust issue	People	Register in Maroof	Being certified	Project failure
Competition	Other mobile apps	Cannot be prevented	Maintain the best price and being available 24 hours	Attract more customers

Risk contingency plan: Steps taken if identified risks occur.

Risk description	Grade	Mitigation action
Virus attack	A	When the App is being hacked, we must re-build and re-check our security systems in a regular basis and keep them up to date.
Trust issue	B	When people ignore the App or do not trust it, we must create intensive marketing plans.
Competition	C	When we are stuck in the competitive market, we must build a long-term relation with our customers by meeting their needs as well as grab potential customers by maintaining the best price and provide continuous support.

Summary and recommendations:

As risks can occur at any time and in any phase of the project, project risk management is a must. It should be considered before, during and after project completion. The project manager and his team must predict the possible risks before they occur and set an appropriate strategy to prevent it or reduce its impact based on the nature of each risk. Risk assessment and analysis must take a place.

References:

* Tiwari and Bus (2007) Mobile Banking. Accessed on 25/04.2021. Link:

<https://www.ukessays.com/essays/information-technology/mobile-banking-literature-review-information-technology-essay.php>

* Microtool. Risk Matrix. Accessed on 25/04/2021. Link:

<https://www.microtool.de/en/knowledge-base/what-is-a-risk-matrix>

* Tenstepadmin (07/01/2015) Use Expected Monetary Value (EMV) to Determine Risk Impact. Accessed on 26/04/2021. Link:

[https://tenstep.com/use-expected-monetary-value-emv-to-determine-risk-impact/#:~:text=Expected%20monetary%20value%20\(EMV\)%20is,like%20high%2C%20medium%20and%20low](https://tenstep.com/use-expected-monetary-value-emv-to-determine-risk-impact/#:~:text=Expected%20monetary%20value%20(EMV)%20is,like%20high%2C%20medium%20and%20low)

* Wrike. What is a Contingency Plan in Project Management? Accessed on 27/04/2021. Link:

<https://www.wrike.com/project-management-guide/faq/what-is-contingency-plan-in-project-management/>

