



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

(PMG506)

Advanced project Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس 2021-05-20 في تمام الساعة ٩ مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الإنجليزية.
- 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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- المسافة بين الأسطر 1.5 line spacing
- عدد صفحات البحث (لا يقل عن ثلاث صفحات ولا يزيد عن ست صفحات).

Instructor's Name: Eng. Dr. Akram Mustafa Suliman Ali

Project of smart coffee shop

1.Introduction:

In the last five years in the Kingdom of Saudi Arabia, people began to expand their knowledge of the world of specialized coffee, and from this point of view, investors and businessmen began to exploit the opportunity and invest their money in opening some shops and looking at the turnout of people. After the success of this field and the popularity of people to it, there are about 126.497 coffee shops in the Kingdom of Saudi Arabia at end of year 2020. Because of the large number of cafes, investment in this area has become low-income, and for this reason, people must be attracted with new ideas and accompanying the environment.

(1.2) Objectives & goals: The goal of this project is to think about unique ideas to make smart coffee shop instead of a normal café so people have a new experience when they visit the shop such as 3D Tv shows, 5G internet, order and pay by smart phones and Robots preparing coffee etc.

(1.3) My role in the project: I was assigned as a project manager because it's my idea to renovate a normal coffee shop to a smart coffee shop with hopes attracting tourists as well as locals. I hope that the idea of a smart café in the hustle of the city attracts people as well as provides them with a sense of ease and relaxation.

(1.4) Business need and mile stone: We are in the business of clearly understanding our project requirements and this includes choosing coffee shop activities that enable my team to accomplish true desire, while monitoring performance during the project and at the end of the project. The project will start on the 7th of May and Finish by the 26th of September. The key milestone of the coffee shop is to establish name through at least six locations in ksa. is project will include a contingency of 20%. project management team will be assigned to manage all renovations needed in the project.

2.LITERATURE REVIEW:

There are several studies methods for cost estimation about coffee shops project, but the nature of our project is different because is unique idea where you can enjoy your time. The Project will be different from what is available in the market due to the unique type of shop that will be supplied from the vendor. The vendor will supply us with the inventory the whole year period.

(2.1) Calculation of budget for smart coffee

The Bottom-up estimating method will be chosen because it is the most accurate estimation method using the Work Breakdown Structure (WBS) method, where the project outputs are divided into a series of packages, each package consists of a series of tasks, and the project team estimates the cost of each part of these tasks down to create a cost estimate for the entire project by grouping the costs of these parts or tasks together.

(2.2) Calculation contingency budget

Many ways to find the uncertainty risks and measure the contingency reserve in a cost estimate. Many researchers have come up with different methods to calculate cost contingency. Range of these methods are from simply applying a predetermined percentage of total project cost. Contingency estimated by a predetermined percentage of base on cost depending on the project phase.

Contingency= % × Base Cost Estimate

Take a percentage of the cost of the project and calculate the contingency amount

3.METHODOLOGY:

In the smart coffee shop project, the method was adopted to calculate project budget is a bottom-up estimating by using (WBS). We will break the project work into the smallest work components. After that we will estimate the cost of each component and aggregate it to get the cost estimation of the project. The key point of choosing this tool it's the most accurate technique and provides reliable results. In this project WBS contains legal and administration fees, Renovation (flooring, painting, etc.), supplies (coffee, blenders, cups, etc.), machines, maintenance and staff payment. The other method was adopted is a table to present the results of the calculation.

4.RESULTS AND DISCUSSION:

(4.1) The details of estimations and calculations of the project budget are shown in table1:

Table1

Details of project budget

Task	Labor	Material	Total
Legal/administration fees	-	-	100,000 SAR/year
Renovations	50,000 SAR	150,000 SAR	200,000 SAR
Supplies	-	100,000 SAR	100,000 SAR
Machines	-	300,000 SAR	300,000 SAR
Maintenance	10,000 SAR	15,000 SAR	25,000 SAR/year
Staff payment	-	-	200,000 SAR/year
Project budget			925,000 SAR

Contingency= 20% × Base Cost Estimate = 200,000 SAR

(4.2) User Acceptance Criteria/Quality

The minimum success criteria as defined by the key stakeholders are to assure that our customers are always satisfied with their orders from our business, as well as the locations, set up and environment of the business.

(4.3) High-Level Project Assumptions

A constant flow of customers in addition to first time customers will enable us to assume that we are conducting and carrying our business successfully. High-Level Project Constraints Limiting factors that affect the project is ensuring that the majority of our customers enjoy our brews and blends with different selections of coffee as well as our décor and arrangement of the facility. We must cater to the public's desire and keep up to date in order to progress as a business.

(4.4) Exclusions and Boundaries

Boundaries of the project include making sure that we have appropriate and professional staff; That our overall interior and exterior design is attractive, that the staff is welcoming, customer satisfaction, etc.

(4.5) Major Risks

The Risks affecting the project is that we must set up the next branch of the coffee shop in an area where we are sure that we will profit the most because if we set up in an unsuccessful area, we may not profit which ultimately will risk the progression of our business.

5.REFERENCES:

1. <https://pmstudycircle.com/2012/06/4-tools-to-estimate-costs-in-the-project-management/>
2. <https://ar.wikipedia.org/wiki/>
3. <https://www.stats.gov.sa/>