The Importance and Trends of IT Project Management

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Abstract— **This document provides a brief summary of the importance of IT project management, trending in IT project management, and some related IT careers. These topics were discussed during the Importance and the Trending of IT Project Management Talk given by Mr.Mohd Khairul Reeza Ruslan the Head of Project Management Office Commerce Dot Com Sdn Bhd.**

I. INTRODUCTION

According to the PMBOK (Project Management Body of Knowledge), a **Project** is a temporary, unique and progressive attempt or endeavor made to produce some kind of result whether it tangible or intangible this result can be a unique product, service, benefit, or competitive advantage, etc. It usually includes a series of interrelated tasks that are planned for execution over a fixed period of time and within certain requirements and limitations such as cost, quality, performance. And here it comes the importance of project management activities and its trends as they work together to improve the project's outcomes. On Decembers 1st 2020, Mr.Mohd Khairul Reeza Ruslan the Head of Project Management Office Commerce Dot Com Sdn Bhd has given a talk that discussed the importance and the trending of IT project management which will be further described throughout this paper.

II. IMPORTANCE OF IT PROJECT MANAGEMENT

First, we need to identify what is project management, it is the process that includes different factors Which are Time, Cost, Quality, Scope, Risk, and Benefit These factors are combined with knowledge, skills, tools, and techniques to project activities to meet the project requirements. Usually, project management lifecycle includes:

- Initiation
- Planning
- Execution
- Closure

Project management is crucial for everyday life it doesn't only occur in organizations and work fields but we can benefit from project management in pursuing our everyday life challenges e.g. Getting our bachelor's degree, fixing our car , even cooking your own food .In relation if we implement project management concepts in every situation in our life we can dramatically reduce risks ,time and cost because we are able to plan each process from the beginning and we will be able to anticipate risk factors and delays that may occur depending on the situation where we need to apply project management concepts .Adding on project management can't be skipped or overstated in organizations because you can still be able to achieve your goal without implementing project management concepts but you'll reach to this goal and you will also underestimate the costs and the time taken to reach your team desired deliverable .In relation the importance of project management that if all the concepts were implemented in the correct way it will drastically reflect on the team outcome and the way that team came out with the desired output because project management concepts will emphasize that the every part of the business or task is executed more smoothly and it can allow your team to focus on the work that matters and ignore distractions that can be caused by tasks going off track or the budget getting out of control. it encourages the team members to deliver results that impact the output and it enables the team members to see how their work contributes to the organization strategic goals. With right planning and implementing project management concepts you can ensure that your output or work is done on time and within the given budget adding on you can map the projects path from the start to the closing part and know in advance what obstacles will be faced and try to figure out a solution for it before it occurs also setting deadlines for each task so you can easily manage the time given without delays or project overspend. One project management methods are PRINCE2 which is acronym for Projects IN Controlled Environments and its usually used in the United Kingdom and now present in other places in the world. PRINCE2 emphasizes the project process by implementing step by step process starting with starting up, Initiation, and planning, Execution, Monitor and control, finally closing. In relation, there are 7 principles for PRINCE2 and they are:

o   Continued Business Justification

o   Learn from Experience
o   Defined Roles and Responsibilities
o   Manage by Stages
o   Manage by Exception
o   Focus on Product
o   Tailoring to Suit the Project Environment

III. TRENDING IN IT PROJECT MANAGEMENT

With the rise of Artificial intelligence and Data Analytics project management is impacted by the rise of AI, machine learning many companies already started using AI in project management to perform their daily tasks that require human effort which drastically helped in improving time and avoiding human mistakes. Adding on there are much more trends in IT project management other than AI and they are:

1. Shifting Globalized Gig economy and it is a labor market characterized by the prevalence of short-term contracts and it relies on Digital and Remote Teams adding on it relies on task management to keep work running smoothly.

2. Great Focus on Data (Big Data) It relies on Data Analytics and numbers and understanding customer needs to detailing risks analyzing data for important insight.

3. Automation and Artificial Intelligence AI-powered bots can help to calculate the best projects to take on and AI can quickly and efficiently schedule and assign resources in real-time.

4. Importance of Change Management to project Success Militating change, reducing change, embracing change, or accelerating change, Adapt and adjust their processes, workflow and competencies.

5. Method Melding a cocktail please, with a hint of agile and a drizzle of scrum topped with waterfall concepts.

6. Advanced project management tools and solutions emphasizes project planning, scheduling and time tracking, Communication and collaboration, Budgets and deadlines and progress tracking.

7. The Impact of emotional intelligence (EQ) it emphasizes how important it is to control your emotions as a project leader because including emotions in project management can dramatically ruin all the process going on in the project.

IV. RELEVANT IT CAREERS

We should always be keen to which fields we are going to apply and how well that field will go ahead in the future. In Information Technology, there are a lot of jobs to get into it and start career in those jobs such as Project Manager, Technician, IT Manager, Information Security Analyst and many more. If we think carefully, all IT jobs require some technical knowledge about PCs, servers and how they work. We will look into what project manager should do and what are their responsibilities.

In the preparation, execution, monitoring quality, and closing of project, the project managers are responsible for everything in the project. They are liable for the entire extent of the project, the project team, the assets and the project achievement or failure. Project management is something imperative in IT profession. One who can deal with a task productively has consistently an uncommon interest in the job market. The project management is a particular action. This requires arrangement, coordination, expectations and eventually the work as indicated by client or organization prerequisites. The IT manager's job can comprise of dealing with the company's regular IT needs, including the administration of PC organizations, workers and guaranteeing its everyday productivity. The project manager should put the system analyst, software designer and innovation expert group together to guarantee that the full project group is centered around satisfying the task targets to achieve those objectives.

V. ACKNOWLEDGMENT

We would like to take this opportunity to thank the speaker, Mr. Mohd Khairul Reeze Ruslan for his helpful advices about our ever-expanding careers, we will do the best of our abilities to remember these advices as we continue to develop our skills. We would also like to thank the moderator Dr. Goh Eg Su for handling the talk and for also conveying the student's questions to the speaker, lastly we would like to thank our lecturer Dr. Johanna for her hard work to make talk happen.

VI. REFERENCES

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VII. REFLECTIONS

Mohammd Arsalan Mujaddadi's Reflection

I would like to start by saying that getting a degree is a project itself that contains many processes. On 1st of December 2020, industrial talk two was conducted by Mr.Mohd Khairul Reeza Ruslan who is the head of project management Office Commerce Dot Com Sdn Bhd. The talk was beneficial from the starting when he talked about what is project, process, goal and portfolio because these are the terms that we should know as a computer science student and future engineer. I was still confused that how can we manipulate these terms in our real life until he proposed an example about MRT KL. In the later section of the talk, he explained some really important terms like project

management and its trending. I believe project management is really important for every company whether it is big company or just the start-up because the company should manage the time, budget, quality of the project and other aspects of the product. I was glad to know the project management trending such as GIG Economy, Big Data, Artificial Intelligence, Importance of change environment, method melding, advanced project management tools and solutions and the last one the impact of emotional intelligence. I think all of them are crucial but importance of change environment and artificial intelligence is really important because if we don't change the environment and we do not act like matured adults, we will never be successful and won't be accepted in any company regardless of achieving good grades. In addition to importance of change environment, AI is really important in this era of technology as we can see everything is about artificial intelligence these days. At the end, I would like to say these two industrial talks really affected me in a positive manner and I have gained a lot of knowledge from it.

Alaa Alrhman Mohammed AL-Shaibani's Reflection

It has been introduced in talk given by Ruslan the Head of Project Management Office Commerce Dot Com Sdn Bhd Mr.Mohd Khairul Reeza Ruslan some of the really important concepts that are related to projects and project management and the trends that are associated with project management. In the beginning, there was a description of the project factors which was informative to me as the speaker used a very good analogy which relates the project concept with obtaining a degree that makes me able to see all the challenges and the difficulties that it might be gone through in this stage of life especially the fact that the quality which can lead to a good output as it is an outcome of continuous work not only one step, as well as any project might have some risks no matter what this project is. This talk got me to know the difference between the portfolio, program, and project. In the next part, the speaker moved to the project management definition and its trends. In this part, I got to know that project management is not a simple concept as it seems to be and any miss in the area of project management can lead to the failure of the project and sometimes this failure comes as a result of the concept of the earlier, the better while in fact, that cannot be applied to all projects as time might have a negative effect in handling the task if not delivered in the right timing. also, not all the management activities and processes should be conducted in all the projects but they vary depending on the project cost and size. In addition, some trends come with project management such as emotional intelligence, and change of management which are important trends that may lead to the success of the project. In conclusion, I was a great opportunity attending this talk with an expert such as Mr.Mohd Khairul .

Omar Hamed Abdellatif Reflection

After attending the second industry talk that was held by Mr.Mohd Khairul Reeza Ruslan the Head of Project Management Office Commerce Dot Com Sdn Bhd which was about how important is project management not only in the work field or organization but also in everyday life situations after attending the talk I was able to grasp and visualize how organizations implement project management concepts in the work environment and what difference it reflects by implementing these concepts, I was able to understand how these concepts can dramatically improve time management ,maintaining cost within the given budget and maintaining the work flow between team members .Adding on Mr.Mohd introduced us to the trending project management in the IT field and how todays era in project management is significantly changed from the past era and what areas should we focus on if in future we would like to work as a project leader .Adding on Mr. Mohr explained briefly about the emerge of AI in project management which many companies have already started implementing which drastically helped in task automation and helped in reducing time and mistakes done by humans. Finally I would like to thank our honourable lecturer, Dr. Johana, for giving us this opportunity to be able to attend such an important conference with an exceptional Project manager Mr.Mohd who opened a lot for undergraduate students to explore in IT Project management field to explore.

Khaled Ahmed Sedik Ibrahim reflections:

In the industry talk2, that occurred on 1st of December presented by Mr. Mohd Khairul Reza Ruslan, he pointed out the importance and trends of IT project management and how companies will suffer without IT management in the company.

At the beginning of the talk there was a depiction of the task factors which was useful to me as the speaker utilized an excellent similarity which relates the project idea with acquiring a degree that makes me ready to see all the difficulties and the troubles that it very well may be experienced in this phase of life particularly the way that the quality which can prompt a decent yield as it is a result of consistent work, not just one stage, just as any venture may have a few dangers regardless of what this project is. Then he continued with an illustration of how if there was any framework closure or assault happens to the organization, the organization could fall. What's more, that is the reason organizations should focus on IT venture the board, IT can help organizations and organizations improve their efficiency and twofold their advantages

Lastly, I would like to say these two industrial talks really affected me in a positive manner and I have gained a lot of knowledge from it.

Ali Hamed Abdellatif reflection:

The second industry conducted on the 1st of December by Mr. Mohd Khairul spoke about the professional life after graduating, the speaker started explaining what our goal should be and what we should focus on, he states that undergraduates and fresh graduates top priority should be developing their skills and being updated to new technology ,he also spoke about project management and how important it is to all companies, even start-ups , since its helps deduce where the expenses lay in the budget and how to know your profits, he also spoke about the project management trends,

one thing he spoke about which was super beneficial on a personal basis was the importance of environment change, to adapt yourself to certain environments to maximize your productivity is something I will defiantly try to do when I start my career, overall, it was a wonderful experience to have, it was great listening to an expert like Mr. Mohd portraying his experience in the professional field.