

Importance and Trending of IT Project Management

Nurin Farzanah Binti Mohd Hilmi¹, Muhammad Rizdwan Bin Roslan², Muhammad Sulaiman Daud Syu'aib Bin Yaacob³, Fayruz Tahzeeb Rahman⁴, Muhammad Roby Herfian⁵

¹Nurin Farzanah Binti Mohd Hilmi, School of Computing, Universiti Teknologi Malaysia, A20EC0122, Malaysia;

²Muhammad Rizdwan Bin Roslan, School of Computing, Universiti Teknologi Malaysia, A20EC0097, Malaysia;

³Muhammad Sulaiman Daud Syu'aib Bin Yaacob, School of Computing, Universiti Teknologi Malaysia, A20EC0100, Malaysia;

⁴Fayruz Tahzeeb Rahman, School of Computing, Universiti Teknologi Malaysia, A20EC4019, Malaysia;

⁵Muhammad Roby Herfian, School of Computing, Universiti Teknologi Malaysia, A20EC0321, Malaysia

This is the report for Industrial Talk 2 in UTM with Dr. Goh EG SU as the moderator and Mr. Khairul as the speaker. The topic of the talk was IT project management and this report explains the importance and trends of IT project management, the relative careers in IT, and our reflection.

I. INTRODUCTION

We had a meeting about the importance and trends of IT project management with Mr. Mohd Khairul Reeze Ruslan who is an expert in IT project management. Mr. Khairul was graduated from UM with bachelor of Computer Science in 2003, after that he completed his masters from University of South Wales, UK, and he also has a lot of work experience and professional certificates.

II. IT PROJECT MANAGEMENT

A. The Importance of IT Project Management

Projects are tasks that are usually broken down from a portfolio. A project is a task that is unique on its own and is carried out with specific goals in mind. A few projects when contributing together for a larger goal are a program and ultimately when several programs are contributing to one major target, it is called a portfolio.

The reason behind dividing a portfolio into programs and further dividing them into projects is to make them easy to manage and to make planning a lot simpler. Project management is the application of skills, knowledge, tools and techniques to project activities for meeting any project requirements.

Project management is important due to the reasons stated below:

- Project management ensures that the right product is being delivered as well as meeting the strategic goals and frameworks of the client.
- Ensures the existence of a proper plan to execute the strategic goal which in turn also confirms the expectations of required time and budget cost.
- Ensures proper risk management which is very critical to the success of a project. This includes having a backup plan in case any of the potential risks materializes.

- Project management can result in cost reduction as it improves the efficiency of a project, mitigates the risks and optimizes the resources.



Figure 1 – The Component in IT Project Management that makes the IT Project Important

B. Trending of IT Project Management

IT Project Management is flexible because it adapts to all the trending in the market. There are seven project management trends impacting the industry.

Firstly, the globalized gig economy. Gig economy is a labor market of short-term contracts or freelance work [1]. Gig economy has a greater reliance on digital and remote teams and also co-working arrangements.

Secondly, the greater focus on big data. Understanding the customer's needs are crucial. Analyzing data and numbers can produce a good decision in a project.

Next, automation and artificial intelligence (AI). AI-powered bots help calculate the best project to take on and are efficient in scheduling and assigning resources in real-time and can embark on a project quickly.

Besides, change management is important for the project to be successful. Change management will mitigating, reducing, embracing, or accelerating change. It also helps to adapt and adjust their processes, workflows, and competencies.

The fifth trend is method melding. Table 1 is example of method melding.

TABLE I. METHOD MELDING

Method	Explanation
Waterfall	<ul style="list-style-type: none"> Good for projects completed in a linear fashion
Agile	<ul style="list-style-type: none"> Focuses on adaptive, simultaneous workflows
Scrum	<ul style="list-style-type: none"> Concerned with getting more work done faster

Nowadays, project manager started to combine these processes in a single project to reduce the cost and time.

The next trend is advanced project management tools and solutions. Tools are useful in scheduling, time-tracking, communication and collaboration. It also helps to stick to the budgets, catch the deadlines, and progress tracking.

Lastly, the impact of emotional intelligence (EQ). Soft skills are very important and have increased in business value. Additionally, controlling emotions is crucial so that you can view any situation realistically and objectively.

III. RELEVANT IT CAREERS

Project management is a very high demanding job nowadays. One of the key factors is that they can be harnessed by different industries. The average compensation is around \$80,000 per year with a spread from \$22,000 to \$174,000. In addition, Industry had prepared many types of project managers that they can employ.

Here are some of the most known types including Construction, Architectural, Health Insurance, Manufacturing, Engineering and Software/IT. However, all of them requires different qualifications and experience.

IV. REFLECTIONS

- Nurin Farzanah's reflection.

My goal is to be able to present myself as a person who is knowledgeable in technology and information system. This talk makes me realize how important IT project management is in the industry. I plan to enhance my soft skills as I am lacking in that sector.

- Muhammad Sulaiman's reflection.

This course gave me great amount of insight about today's developments. From the talk, I have finally understood what is meant by project management. With this, I intend to also be part of the industry to give my strength and contribute to today's era.

- Muhammad Rizdwan's reflection

This course makes me want to explore more thing about technology and information system. This talk makes me have a vision for creating new technology in the future. From now, I will improve my thinking technique and skills to became one of the pillars for our industry.

- Fayruz Tahzeeb's reflection

My goal is to work for a big technology company. When you work as a programmer, projects and programs are going to be a common thing. I think hard work and dedication is the key to improve my potential in the industry.

- Muhammad Roby's reflection

I want to have a great influence on the development of technology by mastering this knowledge. This talk motivates me to study more in my academic specialization. I have to gain more knowledge about technology and information

ACKNOWLEDGMENT

In the accomplishment of this project successfully, we would like to express our gratitude to Dr. Mohamad Razib bin Othman who gave us the opportunity to do this assignment. Secondly, thanks to all of our group members who cooperate finishing this project with a limited frame of time.

REFERENCES

- [1] M. R. Pfeuffer and E. J. Pennesi, "California Bill Makes Gig Economy Workers 'Employees,'" *Lexology.com*, October 04, 2019. <https://www.lexology.com/library/detail.aspx?g=e00a4171-305a-4445-8246-74fe3aa4fd2f#:~:text=The%20E2%80%9Cgig%20economy%E2%80%9D%20is%20a,a%20salary%20or%20hourly%20wage.> (Accessed: December 20, 2020).
- [2] Lucidchart Content Team, "Top 6 Reasons Why Project Management Is Important," *Lucidchart Blog*, January 30, 2019. <https://www.lucidchart.com/blog/why-is-project-management-important>. [Accessed: December 22, 2020].
- [3] Ben Aston, "Why Is Project Management So Important To An Organization?," *The Digital Project Manager*, September 20, 2020. <https://thedigitalprojectmanager.com/why-is-project-management-important/>. [Accessed: 22-Dec-2020].
- [4] Lucidchart Content Team, "Why You Should Choose the Project Manager Career Path," *Lucidchart Blog*, July 17, 2019. <https://www.lucidchart.com/blog/project-manager-career-path>. [Accessed: 22-Dec-2020].
- [5] "Agile vs. Waterfall vs. Kanban vs. Scrum," *Lucidchart.com*, Oct. 23, 2017. <https://www.lucidchart.com/blog/agile-vs-waterfall-vs-kanban-vs-scrum> (accessed Dec. 23, 2020).