

The Importance and Trending of IT Project Management

Muhammad Aiman Bin Abdul Razak, Chong Kah Wei, Nik Syahdina Zulaikha binti Badrul Hisham, Lee Jia Yee, Member, IEEE

Abstract-*This industrial report is regarding IT project management. A project is made up of six main traits. Project management is an important element that contributed to the presence of a good project. United Kingdom government has developed a methodology of project management which is known as Prince 2. The processes of the project should also be tailored according to the value of the project. There are totally six prominent trending in project management which are including gig economy, big data, artificial intelligence, change management, melding method, tools and solutions as well as emotional intelligence.*

I. INTRODUCTION

Mr Mohd Khairul Reeza bin Ruslan had given an industrial talk about the Importance and Trending of IT Project Management from 10 a.m. to 11 a.m. on Tuesday, 1 December 2020. The Cambridge Dictionary defines a project as a piece of planned work that is finished over a period of time and intended to achieve a particular purpose.[1] Mr Khairul has stated that project management is the application of knowledge, skills, tool and techniques to project activities to meet the project requirement. According to an association for project management (apm), project management has final deliverables that are constrained to a finite timescale and budget. Project management is an important skill that can enable us to carry out a project successfully.[2] Next, the trending of IT project management had emphasized by the speaker. Project management trending is mainly about the future of the project management and it contains a few vital parts. It is crucial information that we have to know as well as ought to be implemented.

II. IT PROJECT MANAGEMENT

A. The Importance of IT Project Management

A project is defined from factors such as time, cost, quality, scope, risks and benefits. A project also is temporary, is unique, has certain goals and needs to put time and cost. Examples of projects are shown in Table 1. Project management is defined as the usage of knowledge, skills, tools and techniques to bring our activities to meet the project requirement. There is also a methodology towards project management called PRINCE 2. PRINCE 2 gives importance towards dividing the projects into

manageable stages. This is useful as it will enable us to have more control over the stages. PRINCE 2 has 7 principles that ease our method of work which are to have continued business justification, to learn from your experience, to have defined roles and responsibilities, to be managed by stages, to be managed by exception, to focus on the product, and to tailor it to suit the product environment. A project, which has a start and an end, has a process that we can follow. The process of a project typically includes starting up, initiation, execution, monitor and control, and closing.

Table

TABLE I. EXAMPLES OF PROJECTS

PORTFOLIO	PROGRAMME	PROJECT
CAR (PROTON)	CHASSIS (BODY)	
	IT SYSTEM	AI (e.g. SELF-DRIVING)
		INFOTAINMENT
		ECU
	ENGINE	IGNITION SYSTEM
		FUEL SYSTEM

B. Trending of IT Project Management

Most company is globalized by the gig economy. It is a labour market specified by the prevalence of short-term contracts or freelance work as opposed to permanent jobs. It has a greater reliance on the digital and remote team and co-working arrangements.

IT project management also have a greater focus on big data which will be analysed to have a better understanding about customers' needs to detail the risks and make a more accurate decision to prevent unnecessary loss of cost.

Automation and artificial intelligence (AI) become an extra hand to aid the IT project management whereby AI-powered bots can help to calculate the best projects to take on and AI can efficiently schedule as well as assign resources in real-time.

Change management includes mitigating change, reducing change, embracing change or accelerating change. We need to stay flexible, always adapt and

adjust the processes, workflows and competencies in order to achieve project success.

Method melding is a way to combine several project methodologies such as Agile, Scrum and Waterfall in one project instead of only choosing a single methodology like what we did in the past to achieve the objectives of projects with minimum costs in minimum duration.

Besides, to lower the cost as much as possible and maintain the duration allocated to the project, advanced project management tools and solutions assist us in project planning, scheduling, time tracking and so on.

The last point is the impact of emotional intelligence (EQ). IQ get us hired but EQ gets us promoted and determine whether we can success or not. It has increased the business value of soft skills.

III. RELEVANT IT CAREERS

IT project managers are responsible for leading a team, planning, organizing and successfully executed projects that are significant in scope and impact.[3] Their roles are focus on specific technology elements and high knowledge in hardware, software and data. Software developer handles more than design.[4] They analyse user's needs and then design it, test and develop software. A Computer system administrator is responsible for organizing, install and support an organization's computer systems. Most of these career needs at least a bachelor's degree in computer science or a related subject.

IV. REFLECTIONS

We have learned a lot from the talk given by Mr Mohd Khairul Reeza Ruslan regarding project management focused on IT. What we would love to achieve in regards to our program is to be heavily involved in big data and seeing as big data is trending in project management, it will be highly beneficial. After hearing this talk, we gained much more insight as well as much more fascination in regards to our program. Our plan to increase our potential in the industry is to focus on the trending scope in project management that we can enter and work on gaining a solid foundation regarding that scope. Overall, this talk has been interesting and has definitely increased our fascination with our program.

ACKNOWLEDGMENT

Firstly, we are grateful to Mr Mohd Khairul Reeza Ruslan for spending his time to deliver such an inspiring talk to us.

We would also like to thank our lecturer, Dr Azurah bte A Samah too for giving us a lot of help to accomplish this article.

Lastly, we want to thank the group members for giving full commitment and cooperation in completing the task.

REFERENCES

- [1] "Cambridge Dictionary."
<https://dictionary.cambridge.org/dictionary/english-chinese-simplified/project> (accessed Dec. 13, 2020).
- [2] J. M. Nicholas and H. Steyn, "What Is Project Management?," in *Project Management for Engineering, Business, and Technology*, 2012, pp. 19–45.
- [3] Ruairi.Kavanagh. "IT Project Manager." Gradireland, 17 Dec. 2014, gradireland.com/careers-advice/job-descriptions/it-project-manager.
- [4] Weedmark, David. "10 Of the Most Demanding Jobs in Tech." The Balance Careers, www.thebalancecareers.com/demanding-jobs-in-tech-2071276.