

IT Project Management: Importance and Trending

Lee Jia Xian, Luqman Ariff Bin Noor Azhar, Adam Wafii Bin Azuar, Adrina Asyiqin Binti Md Adha, Kong Jia Rou
School of Computing, Faculty of Engineering, University Technology Malaysia

Abstract- *This talk will clarify the importance and trending of IT Project Management. Good project management is necessary in order to achieve the success of large-scale projects. The success of a project would be improved by the dominant explanation of project management.*

Keywords—*importance, IT Project Management, efficiency*

I. INTRODUCTION

This industrial talk provided us with a lot of helpful IT Project Management details. The speaker was Mohd Khairul Reeza Ruslan, who is the Head of Project Management Office Commerce Dot Com Sdn Bhd. The talk was held on 1st December 2020, from 10:00 am to 11:00am.

There are 6 basic components requirement components, which are time, cost, quality, scope, risks and benefits. In addition, the project will be described by time, cost and quality as a “one-off” scope of work. Project is temporary because it has a start and end which means the project will be finished in the end. Project is not a routine but specific operations to achieve something and this makes it become unique. Furthermore, every project has specific goals too. Not only that, projects usually have a time limit or cost limit.

II. IT PROJECT MANAGEMENT

A. The Importance of IT Project Management

Project management takes a step further to ensure everything goes as planned. This ensures the cost is minimized, quality is maintained and the risk is well calculated before taking it.

With all those things taken into account, the expected output, or the result is obtained as initially planned. Some projects are worth from thousands of ringgit to millions of ringgit. Therefore, a very well revised project management is as crucial as the expected result is because it is the first step of acquiring it.

B. Trending of IT Project Management

i. Gig Economy

A variety of high-skilled, high-paid work as well as low-skilled, low-paid work may cover digital work platforms. Not unlike the outsourcing that has occurred in the past between developed and emerging economies, they can be localized or cross borders. For the developing and industrialized world, they have the ability to generate tremendous opportunities. If it can be used to offer more resources, the data from these channels can provide the foundation for smart regulation and agile safety networks.

ii. Big Data

The most beneficial aspect in big data is speed and efficiency. Data analytics allows businesses to manage their data and use it to discover new possibilities. In turn, this leads to smarter business moves, more productive practices, higher income, and happier clients.

iii. Artificial Intelligence

Artificial intelligence (AI) refers to the emulation of human intelligence in computers designed to think and imitate their behavior like humans. The term can also be applied to any system that shows characteristics linked to a human mind, such as learning and problem-solving. Artificial intelligence's best feature is the ability to rationalize and take decisions that have the best chance of achieving a particular purpose.



Figure show an Artificial Intelligence

iv. *Importance of change management to project success*

We do need to be agile and adapt to business processes, workflows, and competencies. This is very important as a student because it will help us to get a good and better job in the future.

v. *Method Melding*

This method is important to ensure that a project's cost can be minimized as little as possible and that the project can be completed on time.

vi. *Advanced project management tools & solution*

This part tells us about several things such as project planning, teamwork and coordination, budgets and deadlines, and progress monitoring.



vii. *Impact of Emotional Intelligence (EQ)*

EQ is very important because it will decide whether or not you become successful. Having a good and excellent IQ only is not enough to be successful. You will also need to have a good and excellent EQ too in order to succeed.

RELEVANT IT CAREERS

There are several IT careers which are actually demanding in today's industry.

A. *Computer programmer*

A computer programmer's job responsibilities include coding and testing programming for software and mobile apps, developing computer applications and executing code builds to test and production environments. A computer programmer should have certain qualifications to pass the qualification of the job. They are also expected to have specific skills, such as analytical skills, concentration, detail oriented and troubleshooting skills.

The average annual salary differs and depends on your skill and experience in programming. Usually starts from RM 35,375.00 annually.

B. *Project manager*

Information Technologies project manager plays the lead role in projects given. They are accountable for the entire project scope,

project team, resources, and the success or failure of the project. They together with the help of their team make sure the 5 phases of the project life-cycle goes smoothly as planned. Those phases are, initiating phase, planning phase, executing, monitoring and closing.

A senior project manager earns a median salary of \$133,000.

C. *Software engineer*

Nowadays, a lot of investment is going into software engineering due to the increasing dependency on mobile technology, the growing complexity of technology, and emerging industries. This job is in very high demand all over the globe, especially those who are skilled, experienced and qualified. Different companies use different programming languages, so it is very much helpful to learn and use as many languages as you can.

The starting level of software engineers earns around RM 13,809.00 annually meanwhile top level software engineers can earn up to RM 600k per year.

D. *Computer technician*

Computer technicians are responsible for installing, maintaining and troubleshooting hardware and software. Computer technicians are responsible for providing assistance to customers or employees by identifying the problem and solution if necessary. Computer technicians are required to at least hold a Bachelor's Degree in Information Technology, Computer Science or any related field.

III. REFLECTIONS

A. Lee Jia Xian:

From the talk, I realized the importance of IT Project Management. A well-planned project will always have clear focus and objectives. It guarantees what is being delivered in the project is accurate and provides real value. Not only that, project management can also ensure that risks are handled and mitigated correctly to avoid becoming problems. So, I must take my future as a "project" to have proper planning on it. I have to prepare and organize everything systematically in my life to archive my dreams and goals.

B. Luqman Ariff Bin Noor Azhar:

Project management should not be taken lightly as it is the main cause for the outcome of the project. If it was well planned then the outcome would most likely be the one we expected. In order to avoid any unwanted things to happen such as excess use of money, unnecessary methods used and most importantly project failure, all these results should be taken into consideration which a project management does. This talk has given an insight on what I should expect in my career and to be exposed to it at this stage in my learning phase of my life is very much needed.

C. Kong Jia Rou

In the industry talk, I have understood that IT Project Management is a skillful management on an ongoing project efficiently to achieve a productive outcome. I acknowledge that it is crucial for students to learn proper project management before their graduation as they will need this skill when they are in workplace one day. However, the talk has clearly explained that it is not as simple as it seem to be as there are many factors that will affect one to meet the objective. The factors are usually difficult to control. Therefore, students must take the opportunity to train themselves while they are still in university. I appreciate the talk for giving me an early realization about the importance of the skill before it is too late.

D. Adam Wafii Bin Azuar

My opinion on this industry talk is that project management is a vital skill that will help me achieve my goal. Project management will also help me to decide when to start or finish a task and the details of what task that should be done in order to accomplish what I want. It also can help to identify the problems that may occur during the journey so that I can be ready and try to find the solutions for those problems. This talk shows me that project management is a never-ending process of growth as it increases the potential for success to achieve my goal.

E. Adrina Asyiqin Binti Md Adha

The talk helps me open my eyes to the different challenges I will have to face in my working life after I graduate. Being a student is hard enough, but working in the IT industry will be a lot more rough and harsher. Different people have different skills in programming or IT. I should polish and read more regarding technologies because not everything will be taught during the class lessons. I should explore the technology world as much as i can possibly can to ensure my skills grow.

ACKNOWLEDGMENT

We would like to express our deep sense of gratitude to Mr Mohd Khairul Reeza Ruslan, the Head of Project Management Office Commerce Dot Com Sdn Bhd as the speaker of this talk to provide us plenty of information on the importance and trends of IT Project Management.

We would also acknowledge thanks the kind of patronage, loving encouragement and timely guidance, which i have received from my course lecturer, Dr Aryati Bakri

REFERENCES

- Schwalbe, K. (2009). *Introduction to project management*. Boston: Course Technology Cengage Learning.
- Gray, R. M., Cook, M. B., Natera, M. T., Inglis, M. M., & Dodge, M. L. (2008). *Project Management: The. In Managerial Process*", McGraw-Hill.
- Alexander, M. (2019). What is a project manager? The lead role for project success.

