

# The Importance and Trending of IT Project Management

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**Abstract-** This report is about project management and its types and importance. Project management is not an old concept. It has been there since the beginning of industrialization. It is crucial in everybody's life. Project management refers to the management of any sorts of work, not only related to industry. The application of knowledge, skills, tool and techniques to do a project and to meet its requirements is called project management. With the increasing use of IT in every spheres of our life. IT also made its impact on project management. Also, IT is required for managing a project.

**Keywords-** project, management, knowledge, tailor, emerging, IT, prospect.

## I. INTRODUCTION

This industrial talk was titled as "The importance and Trending of IT Project Management." And the speaker was MOHD KHAIRUL REEZA RUSLAN who is the Head of Project Management Office in Commerce Dot Com Sdn Bhd. The talk was held on Cisco Webex on 1<sup>st</sup> December 2020 from 10 A.M to 11 A.M. As the head of project management of a big public commerce solution provider, the speaker discussed about the importance of project management and how to use it. He also said about the consequences that can happen without proper project management. This report also contains the different methodology for project management including the Prince 2 methodology. Any kind of work that requires time, has quality, scope and risk may be termed as a project.

## II. IT Project Management

### A. The Importance of IT Project Management

One of the importance of IT project management that we learnt from industrial talk is realistic to project planning. For example, realistic project planning helps us to set an achievable goal, manage affordable project budgets, and good planning in executing the project. Next is the clear and focused objectives of the IT project. Clear objectives in the project are important to avoid missed deadlines given for the

project, overspending of the project budget, and avoid being stray from the aim of the project. IT project management also important in managing the process in the project. Good process management allows a team member to divide the work to be manageable and react to the issues more effectively. Other than that, IT project management also makes sure the quality control of the product. Project management is important to preserve the quality of the final product by avoiding the rushed work and shoddy product of the team. This can be solved by having deliverables project outlines and a clear definition of the project quality standards. Finally, IT project management is important to reduce the costs needed for the project. It is proven that IT project management can reduce the costs of the project by improving the work efficiency of the members and optimizing the use of resources needed for the project.

### B. Trending of IT Project Management

#### 1. The expansion of Artificial Intelligence (AI) & Automation

- AI usage has been used widely by many companies all over the world
- the automation can be used to perform complex tasks ranging from scheduling to data visualization by the project managers

#### 2. The impact of emotional intelligence (EQ)

- Project management goes beyond setting scope, setting deadlines, and setting a budget. Project managers have to manage employee as well and that means more complexities
- Failure to understand the emotions of team members can lead to too much emotional activity in the team. The result is not always so good.

### III. Relevant IT Careers

1. Software developer.  
-Software developer is a specialist that writes and develops codes for different kinds of software. They also need to evaluate and test new software.
2. IT managers.  
-IT managers need to manage the planning, designing, implementation, and selection of data. Other than that they are responsible for coordinating and disciplining employees in a team.
3. Web developer.  
-Web developer is a programmer which helps to develop the World Wide Web. They are also needed in designing, modifying, and coding web sites based on the client's needs.
4. Computer network architect.  
-Computer network architect is a specialist that designs the framework of the network's physical components. They are also responsible in design functional computer network organization and configuration.
5. Information security analyst.  
-Information security analyst is a specialist that protects the information system from unauthorized access, use, and modification as well as the preservation of the information's availability, integrity, and confidentiality.

### IV. Reflection

**Reflection (Lim Li Ting - A20EC5008)** My dream is to become a software developer concerning my program, software engineering. The industrial talk titled "The Importance and Trending of IT Project Management" has a huge impact on my dream regard to my program. From the industrial talk, I had learned that IT project management is important in executing a project. Good project management is important to produce high-quality products within the given deadline and budget planned. IT project management also help us in our future career to avoid rushing our work given

and produce bad quality product by conducting a strict timeline for the work done. Other than that, IT project management is important for us to always follow the aim of our project and avoid unnecessary works in our product. My improvement to improve my potential in the industry is to improve my work quality by improving my coding skills in C++, Java, and Python. I will also need to improve my knowledge in software engineering by reading books that are connected to software engineering. Finally, I need to learn to work together with others as software developers need to work as a team.

### **Reflection (Ahmed Abdalla Ramadan - A19EC4043)**

1) What is your goal/dream with regard to your course/program?

I have enrolled computer science (software engineering) after ages of thinking.

I was thinking in the begging to enroll in mechatronics then computer engineering to achieve what I thought I liked but here I am changed my mind to be here. I actually do not have a major goal but I think I am just trying to be a good programmer, and I am trying to find out what kind of programming I would prefer more such as web development, gaming or whatever

2) How does this talk impact on your goal/dream with regard to your program?

In the begging I should know more and more about IT. I should at least know about all of the basics about all majors and try to know all about the major I want to specialize at. I need to know the importance of that all to act well while studying and working and try to find my way on the newest and trending majors, and of course arrange my whole life depending on it.

3) What is the action/improvement/plan necessary for you to improve your potential in the industry?

First, working on the programming basics to understand and be allowed to know about each language. These basics such as ++C, problem solving ... etc. Then trying to apply it on the major that I would prefer and involving on it. For sure arrange my daily time to serve my goals.

### Reflection (Mohammed Ruzhan Islam A20EC4028)

I came to know from the industrial talk about the importance of Project Management. Project management is necessary in all the important tasks of our lives. As a student, I got to know how to manage my works. I came to know that somethings may not work properly if I do not do project management. Whether in education, industry or workplace, project management is necessary. Considering each semester in UTM as a project I can do proper management and be successful in my semesters and gradually earn my degree. Small or big, every work can be done easily and properly with proper project management. So, to execute any tasks properly, I hope to use project management in all my tasks.

### Reflection (Muhammad Aqila Karindra Daffa A19EC3010)

I decided to take the software engineering course because I love the computer, and I want to learn more about the computer especially about how to make a program (coding). From this course, my dream is to become a software engineer, and I want to work in a big IT company, such as Google, Microsoft, IBM, and many more. In the industrial talk part 2, I learnt so many things especially about the importance of IT project management. There are some points that I took from the talk, such as in making a project we need to make project planning, goals and also we have to manage the process because good process management allows a team member to divide the work to be manageable and react to the issues more effectively. There are some actions that I need to improve my potential in the industry, such as practicing make a program using some programming language, try to make it from the easiest program to the hardest program. I think that practice is really important for me to improve my potential in Industry.

Figure I.



Figure 2



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### REFERENCES

- [1] <https://www.roberthalf.com.au/employers/it-technology/software-developer-jobs>
- [2] <https://hiring.monster.com/employer-resources/job-description-templates/it-project-manager-job-description-sample/>
- [3] <https://www.roberthalf.com.au/employers/it-technology/web-developer-jobs>
- [4] <https://www.bls.gov/ooh/computer-and-information-technology/mobile/computer-network-architects.htm>
- [5] <https://digitalguardian.com/blog/what-security-analyst-responsibilities-qualifications-and-more>
- [6] <https://thedigitalprojectmanager.com/project-management-trends/>
- [7] <https://www.proofhub.com/articles/project-management-trends>