The Importance and Trending of IT Project Management

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ABSTRACT

Project is a one-off work that is defined by cost, time and quality along with other aspects such as the scope of the project, the benefit if the outcome of a project and the risks during the project. A group of projects can be classified as a programme, whereas, a group of programmes are classified as a portfolio. Project management is the process of leading a team with the application of a certain skill set to meet the criteria of the project. The importance of a project management is to successfully complete a project at a specific time and given cost. There are 2 methodologies for project management, which are PRINCE2 created by the United Kingdom Government and Project Management Professional (PMP) by the United States government. PRINCE2 methodology is commonly used as the PMP methodology focuses more on the construction sector. There are seven project management trending which are the gig economy, Big Data, Artificial Intelligence (AI), change management to project success, melding method, advanced tools and solution as well as emotional intelligence (EQ).

Keywords – Project Management, Importance, Trending

I. INTRODUCTION

On the 1st December 2020, an industry talk titled The Importance and Trending of IT Project Management was conducted by the Technology and Information system (SECP1513) from the School of Computing, UTM. The invited speaker with for this talk was Mr Mohd Kahirul Reeza Ruslan, who is the Head of Project Management Office at Commerce Dot Com Sdn Bhd. The talk was held in the morning from 10 a.m. to 11 a.m. through a WebEx Meeting. The talk comprises of three main points, a project, the project management and its process as well as the project management trending.

II. IT PROJECT MANAGEMENT

A. The Importance of the IT Project Management

Project management is the application of knowledge, skills, tool and techniques to project activities to meet the project requirements. In our world, project management in IT come after the project management in construction. In the early days, most of the project are physical project. Nowadays everything is using IT but the basis is still there. The main point of project management is to ensure that the cost, time, scope, quality, benefit and risk are managed properly. Without proper project management, it will affect the intended output and expected outcome. Tailoring the process also is very important because we have to balance the cost and the risk of the project.

B. Trending of IT Project Management

Project management is flexible and we can adapt it to the trending of the market. Nowadays, gig economy is applied by the company. Gig economy is a job with a short-term contract as opposed to permanent job. The big data also is a trend in project management. In any development project, we need to understand customer needs and analyze the data for the insight. Automation and artificial intelligence also are a trend in project management. AI helps to schedule and assign resources in real-time quickly and efficiently. It can save time and can embark the project quickly. Next, the trending is management was changed to project success. By changing management, it will make an individual to adapt and adjust their processes, workflows and competencies. Method melding also is a trend in project management. Nowadays, people use advanced project.

III. RELEVENT IT CAREERS

TABLE I. RELEVANT IT CAREERS

Relevant IT careers	Job responsibility	Education Requirement
Project managers	- Coordinate team activities - Create plans for problem solving - Decision making - Manage scope and develop schedule - Communicate with stakeholder	Typically, at least bachelor's degree, while some employers require a graduate diploma
System analyst	- Analyse, design, improve and implement information systems - Research new technologies - Ensure the efficiency of system by testing	IT and business degrees are recommended

Quality Assurance	• Identify bugs and potential problems in software • Plan and perform different stages of testing • Develop new tools, technology, and testing processes • Document test progress and results	At least a bachelor's or master's degree in software design, engineering, or computer science
Business analyst	• Coach and guide the team • Recommend for solutions and improvements • Ensure the solution meet user's requirement • Translate business requirements into software requirements	Bachelor's degree programs in finance, accounting or business administration
Developer	• Design, do research, implement and manage software • Develop applications with existing tools and technologies • Evaluate and test new software • Train users	Bachelor's degree programs in Computer Science, Computer Software Engineering or Software Programming and Development are recommended.
Programmer	• Create codes for different computer software, programs and systems • Test software programs to ensure they function properly	Degree in Computer Science or Computer Programming

IV. REFLECTONS

After this talk, we realized that the Information Technology industry has drastically grown within the last decade. Rapid globalization has significantly increased the capacity to manage data. In response to this demand, the focus on effective project management strategies became mandatory.

The talk was informative with the understanding of how to complex is project management along with the developing IT professions. From this talk, we have gained plenty of knowledge regarding project management together with the rapid trends in industries. We also learnt how project management functions, including its influence in every sector or project. Project management is flexible as well as adaptable at anyplace and anytime.

The market has changed significantly over the years. We believe that a successful project is ensured by the application of an appropriate approach towards the project along with the proper ethical conducts, ensuring the desirable execution of the project. Simultaneously, the risk plus the required changes corroborate will be well handled.

According to the speaker, it is crucial to have an upstanding emotional intelligence (EQ).

We require the capability to control our emotions, while notwithstanding negative influences to overreact. The speaker emphasizes the prominent prospect is ourselves. We must work up ourselves to acquire what we strive. As students, planning along with learning additional skills to adapt and qualify to market demands, for increasing employability possibilities. As the speaker shared, our passion for projects will make us overcome all obstacles. The trend is continually wavering, yet it does not mean that it is tough to get into it. We need to be prepared to face challenges in our life else we fail.

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