

THE IMPORTANCE AND TRENDING OF IT PROJECT MANAGEMENT

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Abstract—An industrial talk about “The Importance and Trending of IT Management” was conducted. Here is the content from the speech regarding the ePerolehan project, the importance of IT project management, the significance of IT project management, and the trending of IT project management. Besides, this report also includes relevant IT careers. Lastly, there is the reflection of each member about the industrial talk.

I. INTRODUCTION

The industrial talk “The Importance and Trending of IT Management” was conducted online using the cisco Webex meeting platform on the 3rd of December 2020 from 10.00 am to 11 am. The speaker of the industrial talk is En. Mohd Khairul Reeza Ruslan, Head of Project Management Office Commerce Dot Com Sdn Bhd. The speech started with the ePerolehan project used by the Malaysian government to manage the Federal government document and the state budget. Then, the talk mainly about the elements of project management that are the way to do the project with less risk, more effective and successful, and emerging trends in project management. Also, what the IT job we can involve after graduation and the thought of each member from the speech.

II. IT PROJECT MANAGEMENT

A. The Importance of IT Project Management

A project is the one-off scope of work that is constrained to time, limited by costs, and defined by quality. A project has these key factors: time, costs, quality (outcome), scope (the boundary of your project), risk(s), and benefit(s). These key factors are something that needs to be managed by a project manager. Why? It is because if the time management of a project is not well, the project will be affected and delayed. However, if the project cost is not well managed, you will eventually pay more than when you started, and so on. Therefore, to meet these basic project requirements, we need to use knowledge, skills, tools, and techniques in project management.



Figure 1 show the key factors of a project

B. Trending of IT Project Management

Today, many trends can help project management, such as the gig economy, big data, automation, and AI change management, method melding, project management tools, and emotional intelligence. The gig economy means freelance or short-term contract work. The company prefers to hire short-term employees to reduce the number of permanent workers after the project is completed. The benefits that temporary workers can get are higher salaries, but with higher risks. Big data is significant to project managers because it enables them to make the right decisions for the company. Automation and AI can help project managers with their work because AI can quickly and efficiently schedule, allocate resources, and assign personnel to specific parts of the project. Without artificial intelligence, this process may take weeks or months to complete. Change management is crucial in a project. For example, when you implement any changes in the project, you need your employees to embrace and adapt to the new implementation effectively. Essentially, this is about being flexible with the management and adapting to the process. Melding is an approach used by managers to combines a variety of methods like agile, scrum, and waterfall to make the process of working on a project much faster. Tools are used to maintain or shortening the duration of the complex projects, and also for communication purposes. The Emotional Intelligence (EQ) is crucial because people will not follow a leader who cannot control their emotions. When a person is beyond emotional control, his or her thought will become blurred, which will eventually cause them unable to inspect the situation realistically and objectively.

III. RELEVANT IT CAREERS

A project manager is a specialist responsible to plan, organize, and supervise projects and lead a team in order to achieve the project goals. As an ingenious and inspiring leader, a project manager is the first person to be referred for any problems that might occur during the process. In the information technology field, project managers possess their technical skills and other qualities to ensure that complex industrial projects run smoothly without defects. Some of the IT careers related to IT project management is stated as below:

| IT Careers | Responsibilities |
|---------------------------|--|
| Data Analyst | <ul style="list-style-type: none"> Use suitable tools and technical skills to compile, understand, and record detailed market requirements. Develop dashboards, charts, and visualizations for data. Identify ways to improve process efficiency and automation. |
| | Skills <ul style="list-style-type: none"> Outstanding numerical and analytical abilities Advanced Excel and relational databases skills |
| Software Engineer | Responsibilities <ul style="list-style-type: none"> Develop software products and systems. Monitor and repair software defects to ensure the system is in good shape. Exploring emerging innovations |
| | Skills <ul style="list-style-type: none"> Be able to simply and concisely illustrate complicated problems. Approach a problem in a logical, analytical, and creative way. |
| Forensic Computer Analyst | Responsibilities <ul style="list-style-type: none"> Use software and forensic tools to retrieve data and analyze it into information. Collect data and facts legally Follow the emerging approaches and advances in cybercrime. |
| | Skills <ul style="list-style-type: none"> Master the latest forensic computing techniques, tools, and software. Comprehension of the operating system. |
| Network Engineer | Responsibilities <ul style="list-style-type: none"> Plan and construct the structure of the system. Create and implement policies, identify and monitor access to secure network systems. Troubleshooting network issues and track performance to maximize network efficiency. |
| | Skills <ul style="list-style-type: none"> Capability for analytical and problem-solving. |
| UX Designer | Responsibilities <ul style="list-style-type: none"> Collect information related to user requirements. Design prototype and wireframe. Explain and analyze progress on the website project. |
| | Skills <ul style="list-style-type: none"> Master in Axure, InVision, Sketch, and other tools. Outstanding problem-solving skills. |

TABLE I.

IV. REFLECTIONS

● JAUDAN AFZAL'S REFLECTION:

My goal regarding this course is to be able to land a good career in the IT security industry and to help me land a job in the IT security field I need to know a lot of general IT knowledge, and this course can provide such knowledge. This talk has served as some kind of a guide for my career later if I become a project manager in the IT security field because of course as a simple student I do not know much about such things as project management. I think, that I need to be more confident and assertive in the future so that as a project manager in the future, I could work effectively with my team and my team could work on a project more quickly and efficiently.

● NURMAZLI AZLIN BINTI MOHD RAZALI'S REFLECTION:

My goal for my course is I want to get a dean's list for each semester, graduate with First Class Honours and grab a great job after completing my bachelor degree in Network and Security. After listening to this talk, I realized that information technologies ease human life, help the industry a lot and provide many attractive job opportunities. Also, it taught me that jobs are always there, me myself only need to change my mind, attributes and daily practices to be better and organized. Besides getting an excellent result for my undergraduate study, I also need to enhance my soft skills to improve my potential in the industry. The real working environment requires me to possess great communication, creative thinking, and other positive personality. This can help me to boost my performance and thrive the company objectives.

● WONG PEI SAN'S REFLECTION:

After 4 years of studies, I want to be a cybersecurity analyst who is a hero to protect people's data and their privacy from being disclosed. From the talk, I learned to be persistent, hardworking, and well at emotional management. No matter what kind of project that we are involved in, we need to put in 99% of effort and be persistent towards the goal instead of expecting the 1% lucky. We need to do the right thing at the right time and the right place. Win or lose, it just a result but never letting the emotion control you. So, I should be more flexible and tolerant in doing every task. Not only that, I am planning to learn photoshop and illustrator to prepare myself with additional skills to improve my potential in the industry.

● HAJAR'S REFLECTION:

My goal is to enhance my IT knowledge, especially in the field of computer network and security, and get First Class Honours. With this knowledge, I can apply for jobs in IT companies such as TM Sdn. Bhd. and Celcom. After listening to the speech, it showed me that these technologies have been widely used in daily life and can provide people with many employment opportunities. This talk also taught me the real working environment, mentality, and some aspects that I need to improve, such as soft skills, positive thinking, and understanding of trends to improve my performance and achieve project goals.

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REFERENCES

- [1] Software developer to project manager career change. (2020, September 17). Retrieved December 09, 2020, from <https://www.cwjobs.co.uk/advice/software-developer-to-project-manager-career-change>
- [2] What Is an IT Project Manager? (n.d.). Retrieved December 09, 2020, from <https://www.wrike.com/project-management-guide/faq/what-is-an-it-project-manager/>
- [3] Network Engineering Description & Definition. (n.d.). Retrieved December 09, 2020, from <https://www.fielddesigner.com/blogs/what-is-network-engineer-definition>
- [4] What Does A UX Designer Actually Do? (n.d.). Retrieved December 09, 2020, from <https://careerfoundry.com/en/blog/ux-design/what-does-a-ux-designer-actually-do/>