Reflections for each assignment

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The industrial talk

SUMMARY AND REFLECTION

Attending the recent industrial talk has been a truly enlightening experience, offering a deep dive into the current trends, challenges, and innovations shaping the Information and Communication Technology sector. This reflection will explore key takeaways from the talk, focusing on the impact of emerging technologies, the importance of digital transformation, and the evolving role of professionals in the industry.

Information and communication technology or known as ICT is one of the most essential sectors to ensure that the digital infrastructure is well powered and maintained. By understanding the actual skill and effort involved in ICT jobs and its impact on the modern society and the difference between taking the course and applying it on the real world, we can appreciate it more often.

The industrial talk provided an insightful overview of emerging technologies, such as artificial intelligence, machine learning, and blockchain, that are reshaping the ICT landscape. One of the key insights was the transformative power of these technologies in enhancing efficiency, decision-making processes, and overall business operations.

The talk emphasized the need for professionals to stay abreast of these advancements to remain competitive in the ever-evolving digital ecosystem. And in this speech, my most concerned question has been answered.

AI IMPACT ON THE IT SECTOR

AI can be helpful to some and can be used in a creative way. But also as we have seen and heard many times, people can use it horribly to cheat or else. However, AI won't be able to replace IT jobs , quite the opposite, it will help developers especially juniors to keep learning and to correctly educate themselves, but if someone keeps using it continuously without trying to practice and self-develop themselves , only then AI might cause a huge problem to the IT sector, and so those who admire to be skilled programmers are going to become only google researchers.

WHAT SHOULD WE DO

Have Interest in what you do to develop yourself to learn more about whatever major or sector you are in, and if you chose IT. well interest is essential and the most needed because of how challenging IT careers are. Choose wisely especially friends. Engage and practice more and always be curious. Learn from the mistakes you make to improve yourself, and don't let what makes you down keeps you down.

Industrial visit for the assignments

SUMMARY OF THE VISIT

The recent industrial visit to the Indah-Water Research Center proved to be an enlightening experience, providing valuable insights into the field of water management, sustainability, and the critical role of technology in addressing environmental challenges. This reflection will delve into the key aspects of the visit, highlighting the significance of the trip and its impact on my understanding of industrial practices.

As an introduction to Indah-Water's approach in enhancing knowledge, skills, and competencies to align with business and industry requirements. The visit program is focused on discussing the issues and challenges faced in the sewage industry. As well as the technologies used, understanding sewerage system fundamentals, and delving into new processes and skills.

During the visit the company representatives guided us throughout to show us the process of sewage system, educate us about the importance of such a system. And explain the connection between software engineering and Indah Water's sewage system— all of which were topics that captivated the majority of our interest.

As software engineering students, We found the visit very informative, opening our eyes to a whole new industry. We got to know more about the

purpose of our major and how involved it's in other unconventional industries. The level of fatigue involved the various number. Of technologies, how careful the employees have to be and how involved and   well educated every individual is about each field.

FEELINGS AND THOUGHTS

Prior to the visit, I had certain expectations regarding what I would witness at the research center. My anticipation was centered around gaining practical insights into water treatment processes, understanding the technological advancements in the field, and exploring the intersection of science and environmental sustainability. Additionally, I was eager to observe how a real-world industrial facility operates, applying theoretical knowledge to practical scenarios.

This visit is based on the class. We are happy and gain knowledge at the same time. In the later assignments, we work together as a team to better sum up the knowledge learned during this visit. In conclusion, the industrial visit to the Indah-Water Research Center was an enriching

experience that surpassed my expectations. It not only provided valuable insights into water treatment processes and environmental sustainability practices but also instilled a deeper appreciation for the pivotal role of technology in addressing global challenges. This visit has undoubtedly contributed to my personal and academic growth, shaping my perspective on the symbiotic relationship between industry, technology, and environmental conservation.

PC assemble

INTRODUCTION AND SUMMARY

The process of assembling a personal computer (PC) is an intricate and hands-on endeavor that involves combining various hardware components to create a functional system. This reflection will delve into my experience of assembling a PC, exploring the challenges faced, lessons learned, and the overall impact of this practical undertaking on my understanding of computer hardware. Assembling a PC was a task I approached with a mix of excitement and trepidation. While I possessed theoretical knowledge about the components that constitute a computer system, the prospect of physically putting together these components was a novel and somewhat daunting experience. The objective was not only to create a working PC but also to understand the intricacies of each part

and their interconnections.

CHALLENGES AND LEARNING

The initial challenge revolved around correctly identifying each component. While I was familiar with the major parts such as the motherboard, CPU, GPU, RAM, storage, and power supply, distinguishing between different models and understanding their compatibility required careful consideration.

The experience of encountering and resolving issues during the assembly process was a valuable learning opportunity. From identifying faulty components to troubleshooting connectivity problems, the hands-on nature of the task enhanced my problem-solving skills.

The assembly process provided a tangible application of theoretical knowledge acquired through academic studies. Concepts such as the architecture of the CPU, the role of RAM in system speed, and the principles of data storage became more concrete as I physically interacted with the corresponding components.

CONCLUSION

The experience of assembling a personal computer was both enlightening

and transformative. It transcended the confines of theoretical knowledge, offering a hands-on perspective that is invaluable in the field of computer hardware. The challenges faced, the lessons learned, and the personal growth achieved during this process have collectively contributed to a more holistic understanding of PC architecture and technology in general. As I reflect on this experience, I recognize the significance of practical engagement in reinforcing theoretical knowledge and fostering a well-rounded skill set.

Design thinking

INTRODUCTION

Design Thinking, a human-centric problem-solving approach, has emerged as a powerful methodology to foster creativity and innovation across various disciplines. This reflection encapsulates my journey with Design Thinking, unraveling the transformative impact it has had on my mindset, problem-solving abilities, and approach to challenges. Through a comprehensive exploration of experiences, projects, and realizations, this narrative aims to delve into the nuances of Design Thinking and its profound implications on fostering a culture of innovation. Is not just to produce designs but it helps in being innovative. In this assignment our group walk through the ideation into a prototype and testing journey to

address real-world problems.

REFLECTION AND THINKING

The journey with Design Thinking extended beyond the confines of specific projects. The principles ingrained in the Design Thinking process began to influence my approach to various aspects of life, academia, and work. The emphasis on empathy became a cornerstone in interpersonal relationships, while the iterative mindset permeated problem-solving strategies in academic endeavors.

Design Thinking thrives on diversity. Collaborating with individuals from diverse disciplines brought varied perspectives to the table. The inclusion of insights from fields such as psychology, engineering, and business enriched the ideation process. The amalgamation of different skill sets and viewpoints contributed to holistic solutions that catered to a broader spectrum of user needs.

The Design Thinking journey was not just about solving external problems; it catalyzed profound personal growth. The iterative nature of the process instilled resilience and a willingness to embrace ambiguity. The emphasis on collaboration nurtured effective communication and teamwork skills. As I reflect on this transformative journey, I recognize

the evolution of a mindset that is agile, empathetic, and geared towards continuous learning.

The journey through Design Thinking has been a revelation, reshaping my approach to problem-solving and innovation. From fostering empathy to cultivating a culture of ideation and learning through failure, each phase of the Design Thinking process has contributed to a holistic transformation. As I navigate future challenges, the lessons gleaned from Design Thinking will continue to serve.