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SECP1513 - SECTION 04

TECHNOLOGY AND INFORMATION SYSTEM

GROUP ASSIGNMENT: 02- NEWSLETTER ON CLOUD COMPUTING SERVICE PROVIDER & INDUSTRIAL TALKS

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Cloud Computing Service Provider

22th Nov 2021 / Monday

Mainstream of Cloud Computing Provider

- **Microsoft Azure**

Azure provides a diverse set of cloud services and products that solve problems on on-premises and across multiple clouds. It offers a brand new way of thinking about solving problems for both individuals and enterprises. And experts to ensure the security of the service. Users can freely choose the sources and frameworks they need. There are no restrictions.

- **IBM Cloud**

IBM Cloud provides secure and open enterprise cloud services. Offering up to 170 + products and services covering IoT and blockchain. Users can use their existing infrastructure (and even other Cloud computing platforms) with IBM Cloud service compliance. And build a digital ecological bank based on IBM API technology with Shanghai Pudong Development Bank.

- **Creative Cloud**

Creative Cloud is a Cloud service provided by Adobe, covering the complete solution for graphic design, video editing, image editing, and more. Designed to help companies work together more effectively. Build an edge over competitors faster at work with Creative Cloud more than 20 professional apps. Perfect World, a gaming company, has its Creative Cloud solution in place to share ideas and unleash inspiration on time. It provides help for the creation of excellent works.

- **Google Cloud**

Google Cloud is an open-source, multi-cloud, hybrid Cloud that avoids users being tied to a particular vendor. Google Cloud covers more than 200 regions in the world, making development possible wherever you are with built-in remote communication and collaboration capabilities. It aims to solve difficult problems in 15 areas, including manufacturing and gaming. Paypal is a loyal partner in the Google Cloud, it is solving data exploded for Paypal to meet user needs. It is a reliable and safe choice.

- **Alibaba Cloud**

Like Google Cloud, Alibaba Cloud is also open source, multi-cloud and hybrid Cloud. Provides services in different countries, regions and research areas. Alibaba Cloud focuses on global localization and is committed to providing customers with the best solutions. It has become the cloud service provider with the most data centers and CDN nodes in the Asia-pacific region.

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Comparison

- **Functionality:**

Microsoft Azure and Google Cloud are the most full-featured of the five providers. It covers both individual and enterprise user groups. Almost every field in the world, providing professional services and technical support.

- **Professional:**

Adobe Creative Cloud is the most specialized provider. Focus on cloud computing to bring convenience to workers in the field of creative design, better processing workflow. The rest of the providers cover different areas of work. They tend to provide bridges between different fields of work .

- **Price:**

Creative Cloud has the lowest prices. Due to it only for the target audience, which makes the price very friendly for professionals. The remaining four are free for a limited period of time (Azure: up to a year), but their rich features make them expensive and are mostly professional personal, enterprise, and business choices. It's not suitable for the average user.

Reflection:

As we know, these Cloud Computing Service providers are all focused on using Cloud Computing to optimize the work process for individuals and enterprises. Some complex problems are handed over to the Cloud for automatic processing, so that employees can improve work efficiency and enjoy it. The goal of Cloud Computing is to bring more intelligent life and simpler work process to people.

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Industrial Talk 3
Amazon Web Services Cloud Computing

Monday, 15 NOVEMBER 2021

SUMMARY

A cloud computing is a service that deliver the computing power, database, storage, and other IT applications via the Internet with the pricing will be according to the user's usage. There are several types of deployment for cloud computing which are cloud, hybrid and on-premises (Private Cloud). One of the main cloud computing service provider in the market is Amazon Web Services (AWS) as AWS offers many features than its competitors with a lower price. Besides that, AWS are globally available which AWS allow the clients to provide their services around the world via the Internet within several minutes.

IS CLOUD COMPUTING THE FUTURE?

The difference between the traditional computer model and cloud computing is significant. The main difference of both categories is that traditional computing would require regular maintenance, physical space, capacity planning, and expensive capital expenditure (labours, hardware & equipment, etc) whereas cloud computing only requires the client to pay the cloud computing services according to their usage.

Some clients are still preferring the traditional method. This is because the shifting towards cloud computing may cause incompatibility issues as some databases may not be offered by the cloud service providers. Therefore, AWS has provided a service that allows the client to use their custom-made database to tackle the incompatibility issues during the transformation from traditional computing to cloud computing. Besides that, clients will also prefer to save their data on premises (private cloud) instead of on the cloud due to some privacy issues. To address to issue, AWS has supported the upload of encrypted data into their cloud to ensure the safety of clients' information on the cloud. Additionally, clients who hold a large amount of data may require a very long time to upload their data to the cloud server due to the limited Internet bandwidth.

Furthermore, there will be some basic practices and standard regulation that differs from country to country for cloud computing services. For instance, ISO 27001 is a standard basic practice for information security to manage and protect users' data information in the cloud.

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WHAT CAN WE LEARN FROM THE TALK?

From the Industrial Talk, we have acknowledged the advancement and importance of modern computing technology– Cloud Computing Services such as Amazon Web Services (AWS). It provides computing power, storage, and many other services which will reduce the requirement and operating cost for a client to own the computing services for carrying out their objectives without ending up with many troubles.

From a specific point of view, the innovation of cloud computing has really benefited human life in the business aspect. For example, cloud computing has allowed businesses that are not willing to invest huge amounts of capital for setting up physical computing infrastructure just for storing and processing their customer's data. Thus, this allows the company or business owner can spend their capital on other investments. Not only that, but cloud computing also offers flexibility and convenience so the client will not require spending their time, effort, and money for regular maintenance and system upgrade as cloud computing enables the client to complete any regular maintenance and system upgrade with just several clicks.

MONDAY, 21NOVEMBER 2021

Industrial Talk 4
Current Trends Of Augmented Reality In Industry

SUMMARY

During the transformation to IR4.0, Augmented Reality is finally become a mainstream reality. Therefore, there are several skills have to master by human for future jobs during the digital transformation of manufacturing . Furthermore, there are 3 keys areas where humans beat machines which are key to have a job opportunity in future . The 6 common positions in AR works also must be noticed by new generation. Lastly, since the AR is develop rapidly, therefore there are 5 basic things to consider when choosing our career in future in case of replace by AR.

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Application of Augmented Reality in Different Industry

AR has a number of practical applications for organizations across different industry sectors .In the sector of education, AR can help students study a 3D object from a different angle. Students also can run a mathematical simulation in 3D space. This learning method can help students more understand and have more interesting when studying.

Moreover, navigation also will become one of the future use cases. In the future, AR can easier to navigate the indoor and outdoor environment. For outdoor, you can see the direction when pointing to a location and can see information about the building without walking in. For indoor, can guide you go to a location in a large mall or school campus.

Last but not least, AR will bring a good impact to the healthcare of people. For example, AR can simulate a procedure of medication to let the patient know the risk and benefit. This also can help medical students more understand when demonstrating the procedure of surgery by using AR.

Are There Different Types of Augmented Reality?

One of the types of AR is marker based which basically require a static image also referred to as a marker or trigger photo that a person can scan using their mobile phone. Next, the second type of AR is projection based. It is described as a video projection technique, which can extend and reinforce visual data by throwing images on the surface of 3D objects or space. Lastly, the third type of AR is superimposition based which uses object recognition. The augmented image replaces the original image either partially or fully.

What Can We Learn From The Talk?

After attended this 4th industry talk, we could noticed that there are various types of AR(augmented reality) in the market now such as marker-based, projection-based, dynamic augmentation and superimposition based. Since the rise of powerful smartphone technology, AR is finally a mainstream reality. Therefore, many opportunities that AR can now offer organizations and brands of all shapes and sizes. Besides, with the development of technology, AR is playing an important role in provides a richer user experience for organizations across different industry sectors. In conclusion, we believe AR will be more and more common in future trends. Therefore, in case of take place by AR, we should master more hard and soft skills in to improve ourselves values.