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BSIT 301

Select one (1) from the following computing platform technologies according to the nature of interaction:

- Mobile and handheld interaction
- High-end cloud service and multimodal client interaction
- Natural/Immersive/Experiential interaction
- Mixed and augmented reality.

Search for two (2) articles on the Internet about technological advancement related to the item you selected above. The articles must be published between 2016 and 2019 by a credible source. Then, provide the following details:

a. Computing platform technology you selected above (2 points)

- Mixed and augmented reality

b. Title of the article (3 points)

- What's the difference between augmented reality, virtual reality & mixed reality?

- The Important Difference Between Augmented Reality And Mixed Reality

c. Name of the author and/or the website (3 points)

- Overly

-Bernard Marr & Co.

d. Link to the article (2 points)

- <https://overlyapp.com/blog/whats-the-difference-between-augmented-reality-virtual-reality-mixed-reality/#:~:text=Mixed%20reality%20is%20similar%20to,headset%20to%20experience%20mixed%20reality.>

- <https://bernardmarr.com/the-important-difference-between-augmented-reality-and-mixed-reality/>

e. Overview of the article – use not more than three (3) sentences. (5 points)

- What is extended reality and where will it take us?

Extended reality is an umbrella term for virtual reality, augmented reality and mixed reality. Virtual reality had a head start before augmented and mixed reality hit the market. It still has vast growth opportunities as companies are working on bodysuits, aiming to provide full-body VR experiences. However, I believe that augmented reality and later mixed reality are going to team up and win the race. AR already offers us great use cases in marketing, education, art, etc. The only true difference between MR and AR is the interface. Today it is a mobile device, tomorrow we'll have glasses or even more futuristic – smart contact lenses. And as the interface changes, both of these terms will merge together. Share this story

-Augmented reality (AR) and mixed reality (MR) are both considered immersive technologies, but they aren't the same. Mixed reality is an extension of augmented reality that allows real and virtual elements to interact in an environment. While many people have heard of virtual reality, the other “reality”—augmented reality (AR) and mixed reality (MR)—aren't as widely understood. So, with this article I aim to address this and explain, in simple terms, the difference between augmented reality and mixed reality. As the use of augmented and mixed reality will grow it will significantly improve everyone's understanding of the technology.

After providing the details above, choose among the two (2) articles you have read. Then, answer the following questions based on your chosen article:

a. What are the advantages of implementing or utilizing the technology in the industry? (Essay: 15 points)

- For me, the advantage of this is that it creates unique digital experiences that blend the best of the digital and physical worlds.

b. What are the disadvantages of implementing or utilizing the technology in the industry? (Essay: 15 points)

- I think the disadvantages of this mixed and augmented reality are, first, that lack of privacy is a concern in AR-based applications. Second, in AR, people are missing out on important moments. And the third, low performance level, is a concern that needs to be addressed during the testing process. Lastly, it requires basic learning to effectively use AR-compliant devices.

c. What are the possible ways to mitigate, resolve, or eliminate the disadvantages you mentioned above? Rationalize your answer. (Essay: 15 points)

- The possible way to resolve the Mixed and augmented reality is to improve collaboration. As a result, everyone in the team can see the same augmented reality or mixed reality experience. By

enhancing what can be seen, heard, and shared among workers, augmented reality improves collaboration as well as decision-making. Visuals and data may also be conveyed to faraway peers utilizing PCs or smartphones.

d. What is your assessment, view, or stand regarding the technological advancement in the article in relation to HCI? (Essay: 15 points)

- The goal of human-computer interaction (HCI) is to make user interfaces more effective and efficient. Enhancements to virtual reality (VR) and augmented reality (AR) experiences may result from advances in HCI technology. Giving a person sensory input that simulates being present in a real or imagined setting is known as virtual reality. A live direct or indirect experience of an environment is combined with computer-generated sensory input to create augmented reality.