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Hello Students:

Reminder: Project Three is due in Module Seven (next module).

As part of this week's module six, you will complete quite a few reading assignments on memory and storage management concepts, Serverless architecture, Microservices versus Service Oriented Architecture (SOA), etc.

Having enough memory (RAM) is paramount to have good user experience. Recently, one of my laptops started running very slow which was a very bad user experience for me. After many trouble shooting efforts, I finally had to upgrade the RAM to make the laptop faster.

Having a reliable storage to persist your data is very important as well because data is one of the most valuable assets of an organization. As part of this module, you may want to explore Cloud based as well as On-premise storage options such as Amazon Simple Storage Service (S3), Azure BLOB storage, Google Cloud Storage (GCS), Hadoop Distributed File Systems (HDFS), NoSQL Databases, RDBMS, Storage Area Network

(SAN), Network Attached Storage (NAS), etc. Note that Amazon S3 provides 11 9's annual durability meaning that even with 1 billion objects, you could go 100 years without losing a single one.

ASSIGNMENT

For this module's assignment, you are required to come up with effective memory and storage management plans for the gaming application, Draw It or Lose It. For the purposes of this assignment, assume that The Gaming Room will have 200 high-definition image files to choose from, each one approximately 8 megabytes in size.

You may need to draw an association from coding techniques, such as a list of images in memory, to physical requirements. For example, 1,000 games times 8 Mb per image means 8 Gb just for image storage. Note that application design choices affect system requirements.

I can't stress enough the importance of the high-speed characteristics of memory necessary to allow the game engine to transmit and render up to 4,000 clients (1,000 games times 4 players).

Please keep all those above-mentioned points in mind while completing this assignment.

As always, feel free to reach out (s.sarkar1@snhu.edu) if you have any questions. I am always here to help as much as I can.

Thanks,

Suhash