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CS360
MID-TERM

18BCS011

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1) API (Application Programming interface)

Paying with PayPal is built with an API to ensure that the end application can only do what it needs to. The login process is similar to logging-in using a social media service. When the user clicks the "Pay with PayPal" option the application sends an "order" request to the PayPal API gateway. Like this API can be used in payment options.

2) Cloud computing has three major layers:-

- i) Top layer (layer-3) - SaaS
- ii) Middle layer (layer-2) - PaaS
- iii) Bottom layer (layer-1) - IaaS

i) SaaS : It provides an actual working software application to clients. In this layer service accessing occurs through web services.
Examples : Games, Emails

ii) PaaS : These providers offer managed service. In this layer developers can develop their software needs with ease.
Examples : Google App Engine, Windows Azure etc

iii) IaaS : This provides ~~give~~ Low Level abstractions of physical devices. AWS is the most common example in this layer other than AWS Cisco Metacloud (Network)

SaaS Layer of the cloud is cost effective because it is used to provide applications to the market at a lower cost and with a lower local hardware need.

3) Cloud computing ~~examples~~ elements are

Platforms such as front end, backend, cloud-dependent distribution and the used network are all examples.

Cloud computing system is divided into three categories:

- 1) Clients , 2) distributed servers ,
- 3) datacenters.

False, Cloud service components are economical. If we observe technology always reduces the cost associated with purchasing hardware and software components. and also the setup and operation of external data centres. It partially reduces the storage space for servers and its maintenance.

4) Network and Storage are
consumed as resources when Iaas
is selected

- 5) 1) Scalability is a characteristic of cloud architecture. Users can scale up or down their resources based on their business needs, rather than putting in the physical effort required by traditional hosting.
- 2) Users are paid for the facilities that they use. It eliminates the need to pay a monthly plan fee.
- 3) In cloud architecture the server hardware is provided and maintenance to it is done by the service provider.
- 4) Cloud offers better data security and recovery from any natural disasters and human errors as it backs up data over different locations.
- 5) Cloud hosting is capable of handling workloads seamlessly without any possibility of failure. Since it functions as a network.