- CAP stands for consistency, Availability of the system for read and write operations and Partition of desc tolerance in the face of the node in the system It states that it is not possible to guarantee all the three desirable properties at the same instant in a distributed system with dala replications. whenever their is a server failure for a web Application then at that time high Availabibility is required but cosistency lost at that particular Anstaut.
- An Operating System is a system software which ads a bridge blis user and computes hardware. It allows user to interact with computer hardware Every computer must have one Operating system to run of and perform the operations.

Operating system perform some of the following function: (i) process management: - It helps to os to create and dolete processes

(ii) Memory Management: - It poor shares space to programs on the basis of their need.

this file Management: - It manages all the operations like sharing data, naming data, storing data edc.

(in Security: It provides protect the data and information of a computer against virus.

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Input/Outquit Management: - One of the main object of only ols to hide the peculiarities of that hardware devices from the user.

Device Management: - Device mornagement · keeps tracks of all devices. It is responsible from allocation and deallocation of the devices.

4) (a) Client-Somer Architecture is a shared computer network architecture where several clients send many request and finally to obtain desired results from server.

There are 4 types of client-server Architecture

- (1) 1-tier Architecuture
- (2) 2-tier "
- (3) 3-tler "
- (4) A) Her "

Caching refers to storing information locally to speed communication blue a client as a neb-browser and a server are a web server. The cache can be located on the client older the server side, or might both.

webSockets is a continuous type connection blo chest and somer. It allows both the server and the client to push messages any time without relation to a previous request.

d) and Pullic beyon It is an enoughborn bechingue which does the took of enoughborn plane tayt into diphertexti.

Parvate lawy - It is con a decrypting technique which boolically does the task of decrypting the application to read the anersages, decrypting the application to read the anersages, which does