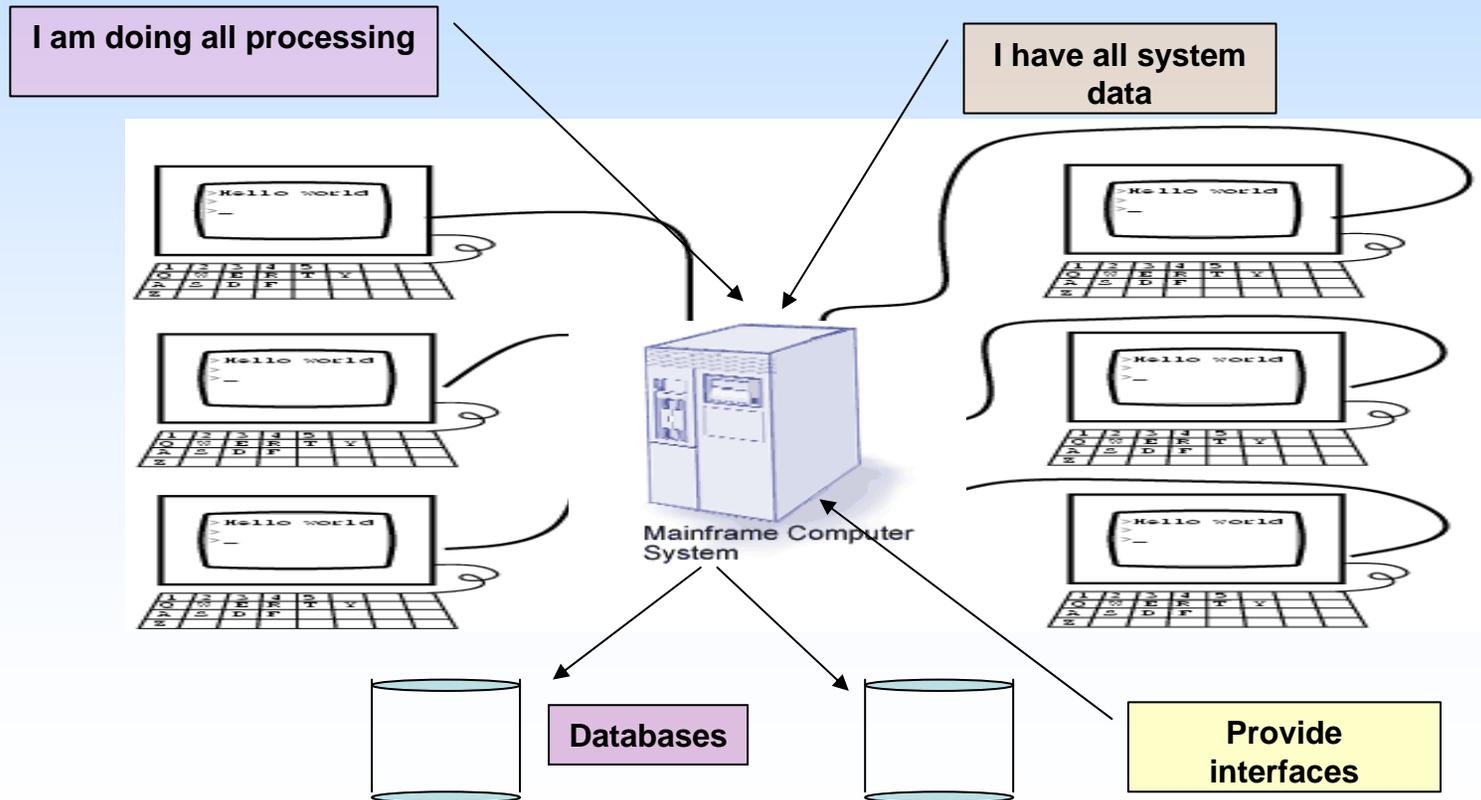


# Information technology Features

## ➡ Centralized Systems

- All the components are hosted by a central, multi user system
- User interact with the host computer via terminals
- Virtually all of the actual processing and work is done on the host computer.



# Information technology features

## ➡ Distributed Systems

- Components are distributed across multiple locations and computer networks
- Processing work load required to support these components are distributed across multiple computers on the net work.

-- Components of an information system  
-- Processing workload required to support the components

Distributed  
to multiple  
locations

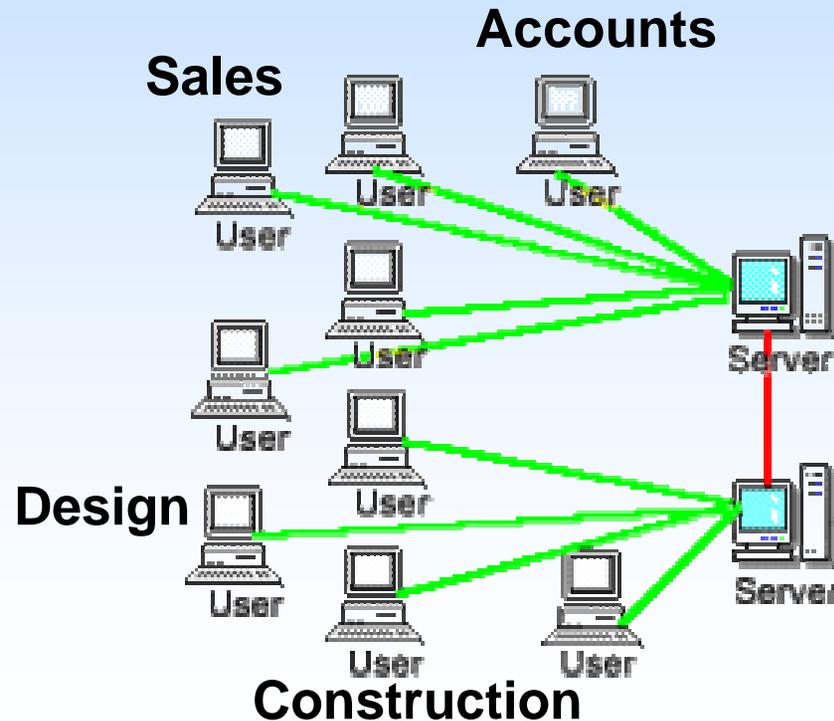
# Distributed Systems

## 1. Client Server Systems

The presentation, presentation logic, application logic, data manipulation and data layers are distributed between client PC's and one or more servers.

### Client Computers :

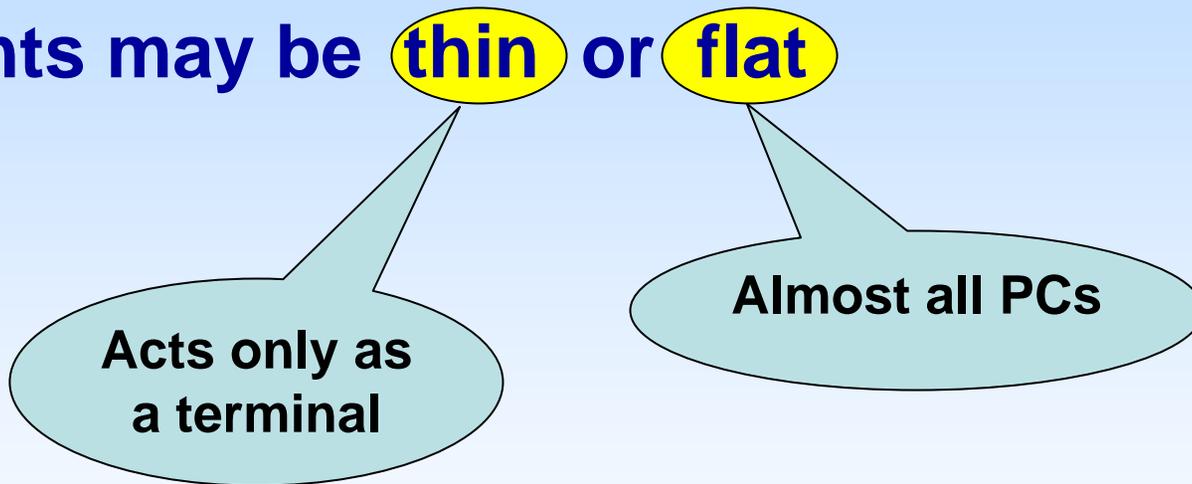
Any combination of personal Computers or Workstations, "sometimes connected"



# Distributed Systems

## Client Server Systems cont..

Clients may be **thin** or **flat**



e.g. Windows terminal

# Distributed Systems

## 2. File server Architecture

- A LAN (Local area network) based solution
- A server computer hosts only the data layer
- All other layers are implemented on the client PC.
- Practical only for small database applications shared by relatively few users

# Distributed Systems

## 3. Network Computing Systems

- Presentation and presentation logic layers are implemented in a client side web browser
- The presentation logic layer then connects to the application logic layer that run on an application server,
- Subsequently connects to the database server/s



# Processing Types

## 1. Batch Processing

- Data about many transactions is collected as a single file which is then processed
- The data entered is collected into files called batches.
- Each file is processed as a batch of many transactions.



Super market-Batch processing

# Processing Types

## 2. Online Processing

The data about a single transaction is processed immediately.



**ATM-Real time processing**