# Strategy of software design

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Made by- Ankit Rawat
Roll no- 17

# Strategy of Software design

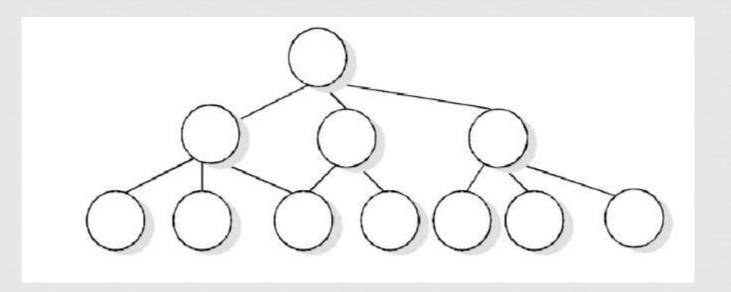
- A good system design strategy is to organize the program modules in such a way that are easy to develop and later to, change.
- 1-Top-Down
- 2-Bottom-Up
- 3-Hybrid

# Top Down Design

 Top-down design starts with a generalized model of system and keeps on defining the more specific part of it. When all components are composed the whole system comes into existence.

## Top-down structure:-





### **When to use:-**

When the Problem is well understood.

### CF

### **Q**Used mostly in:-

Data processing applications, scientific applications, and utility programs (compilers, editors, etc.)

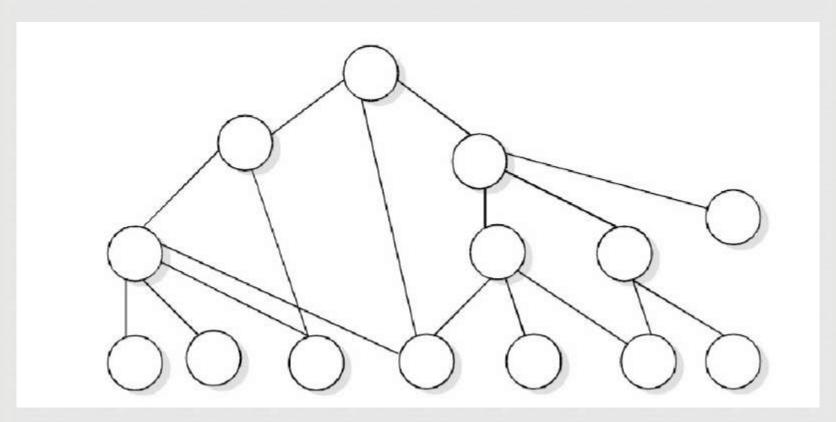
## Bottom-up Design

03

The bottom up design model starts with most specific and basic components. It proceeds with composing higher level of components by using basic or lower level components. It keeps creating higher level components until the desired system is not evolved as one single component. With each higher level, the amount of abstraction is increased.

# Bottom-up tree structure:-





### When to use:-

Requirement in product are not specified.

A system is to built from an existing system.

## **Q**Used mostly in:-

Real-time systems, operating systems, distributed systems, multimedia information systems.

## Hybrid

### 03

#### 03

## Thank You