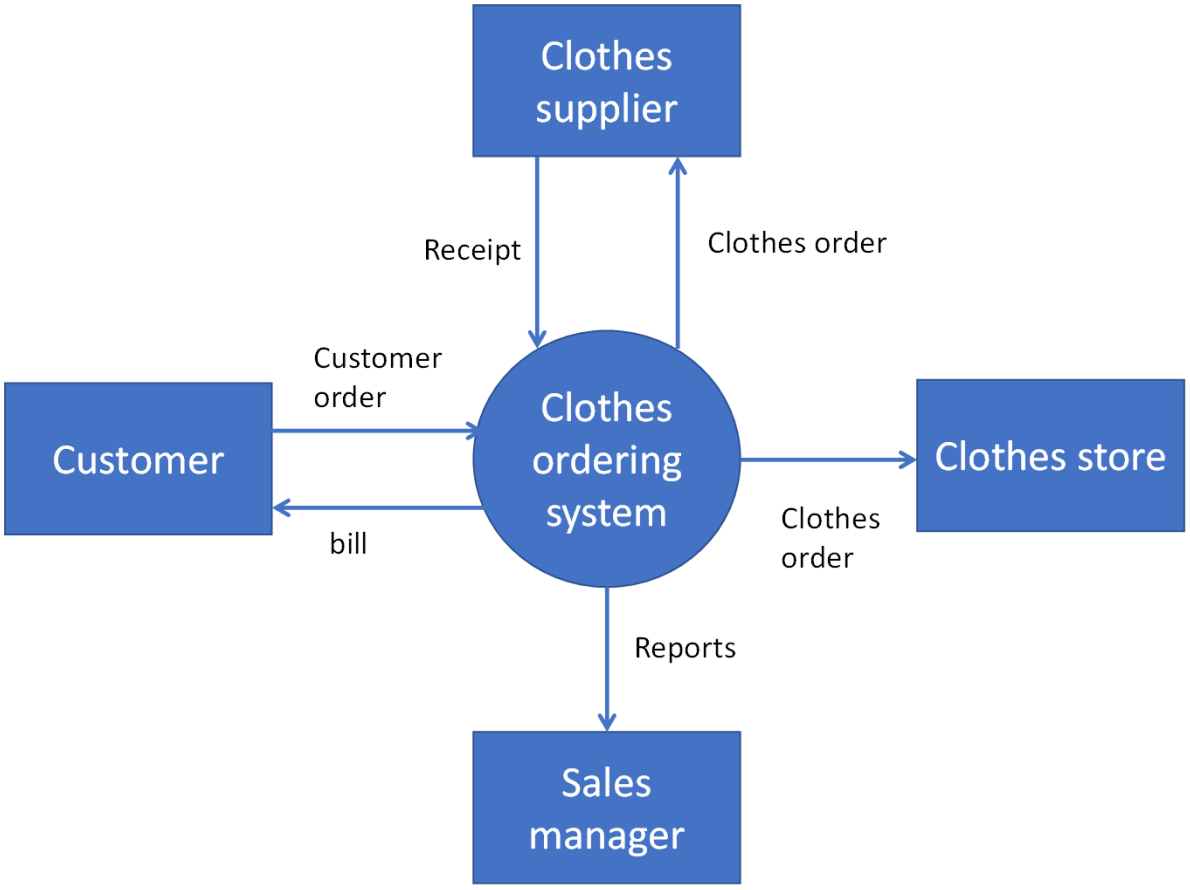
DFD

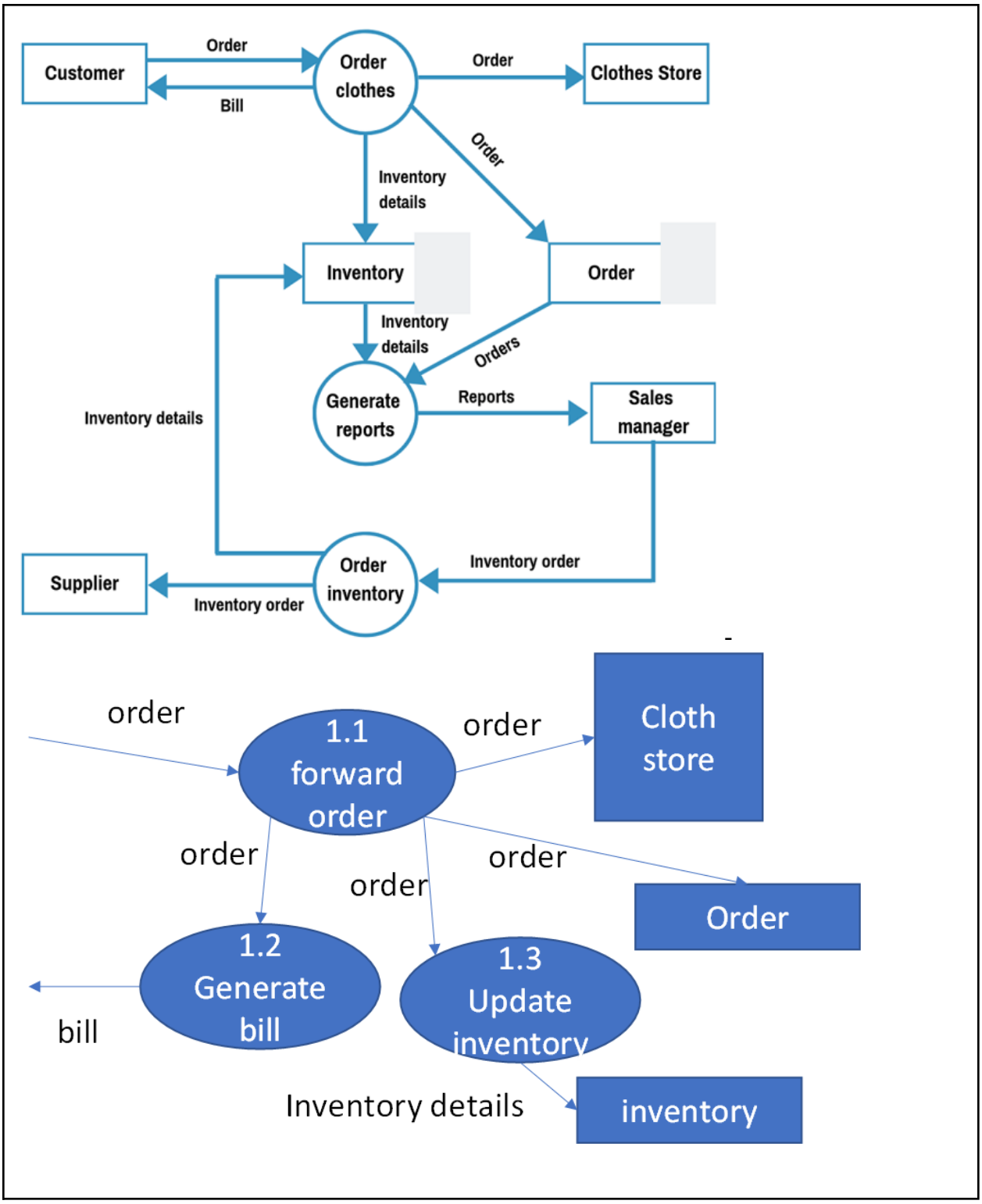


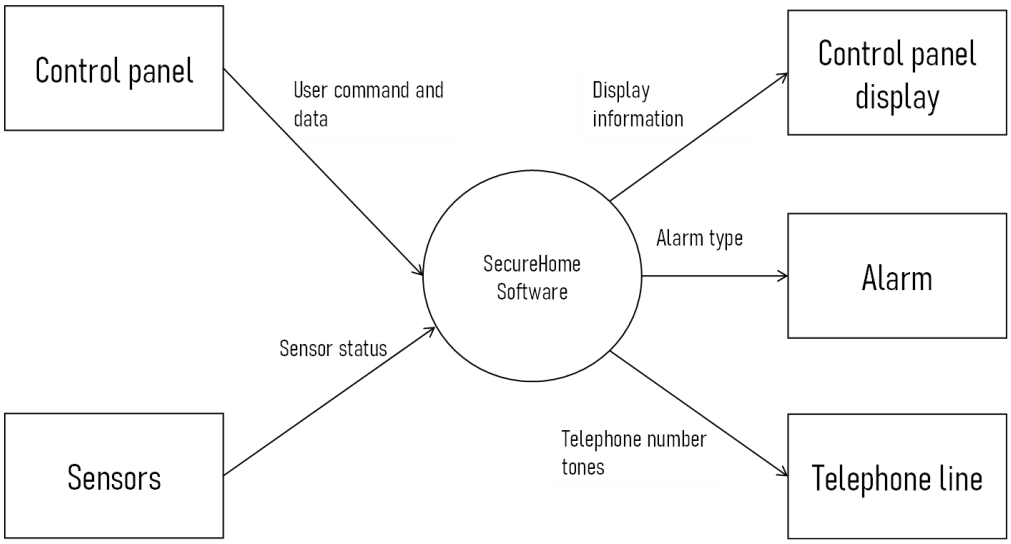
1. The above diagram in the context diagram of a cloth ordering system. Read the following scenario carefully.

   a. Clothes ordering system is decomposed into order cloths, generate reports and order inventory processes. Order clothes process, take customer order and send it to clothes store and order datastore. This process also sends a bill to the customer and updates the inventory datastore. Generate reports receive orders and inventory details and send the report to the sales manager. Sales managers place inventory orders into the inventory process and forward the inventory order to the supplier and update the inventory. **Design level-1 DFD based on above scenario.**

   b. Now you need to decompose the Order clothes process only. Forward order takes orders from the customer and sends that information to generate bills and update inventory process. Generate bill process generates bill based on the order and Inventory is updated by update inventory process. **Design level-2 DFD for order cloth process and make sure it is Balanced.** Also mention if you find any error in the scenario.

Solution:


Customer
Order
Bill
Order clothes
Order
Clothes Store
Order
Inventory details
Inventory
Order
Inventory details
Orders
Generate reports
Reports
Sales manager
Inventory details
Supplier
Order inventory
Inventory order
Inventory order
order
1.1 forward order
order
Cloth store
order
order
order
Order
1.2 Generate bill
1.3 Update inventory
bill
Inventory details
inventory

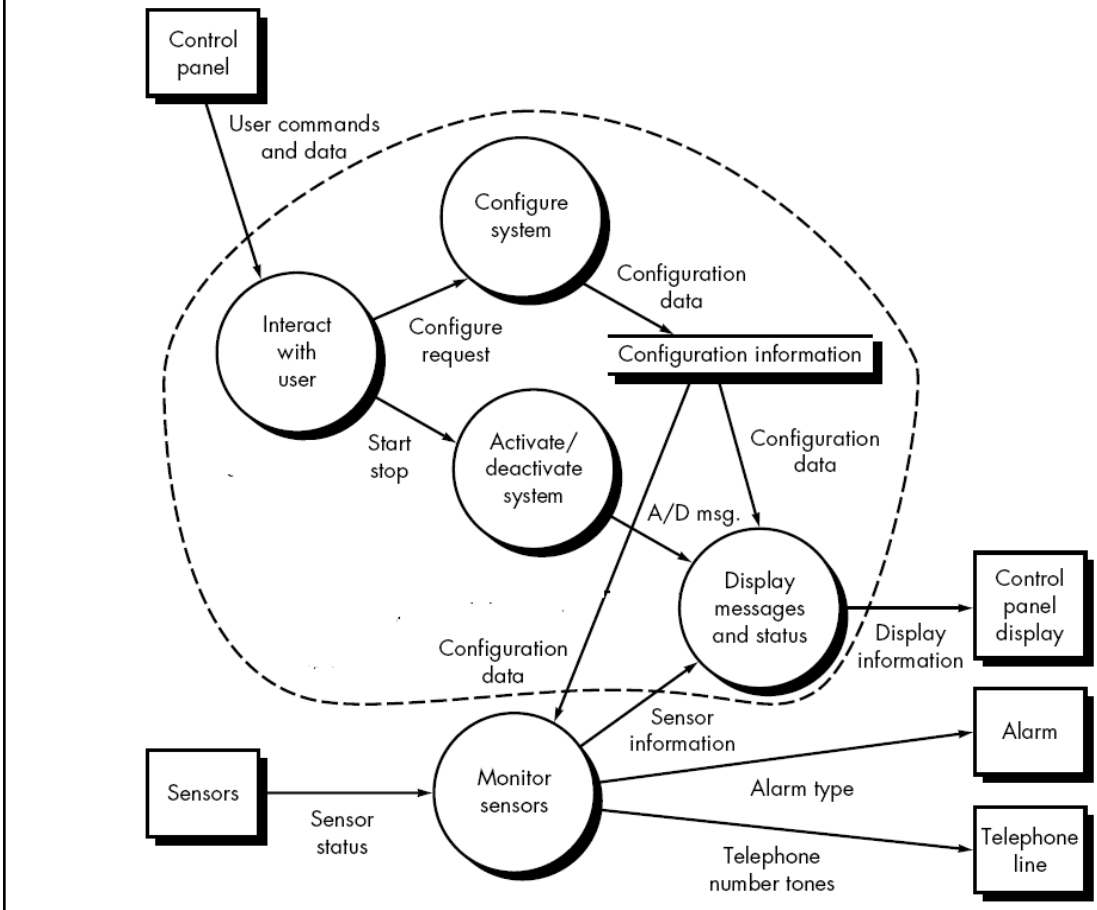


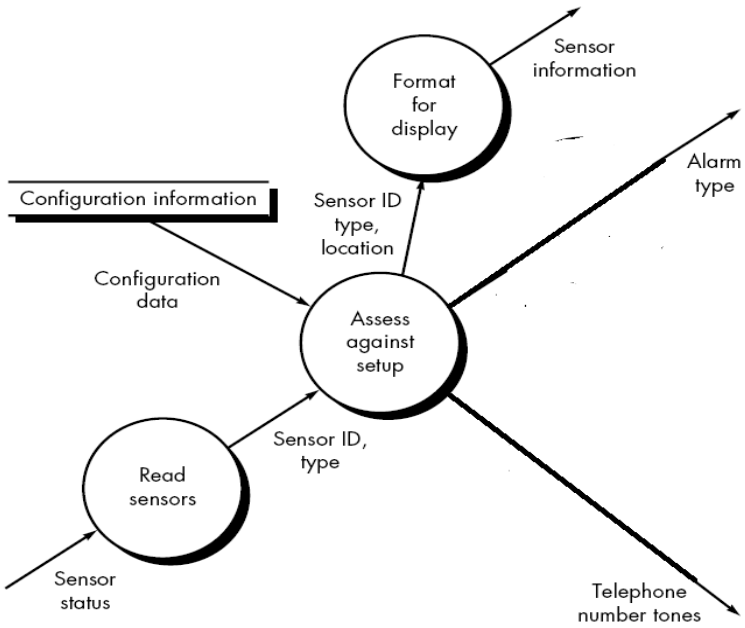
2. The SecureHome security framework is illustrative of numerous PC based items and frameworks. The item screens this present reality and responds to changes that it experiences. It additionally connects with a client through a progression of composed sources of info and alphanumeric display.

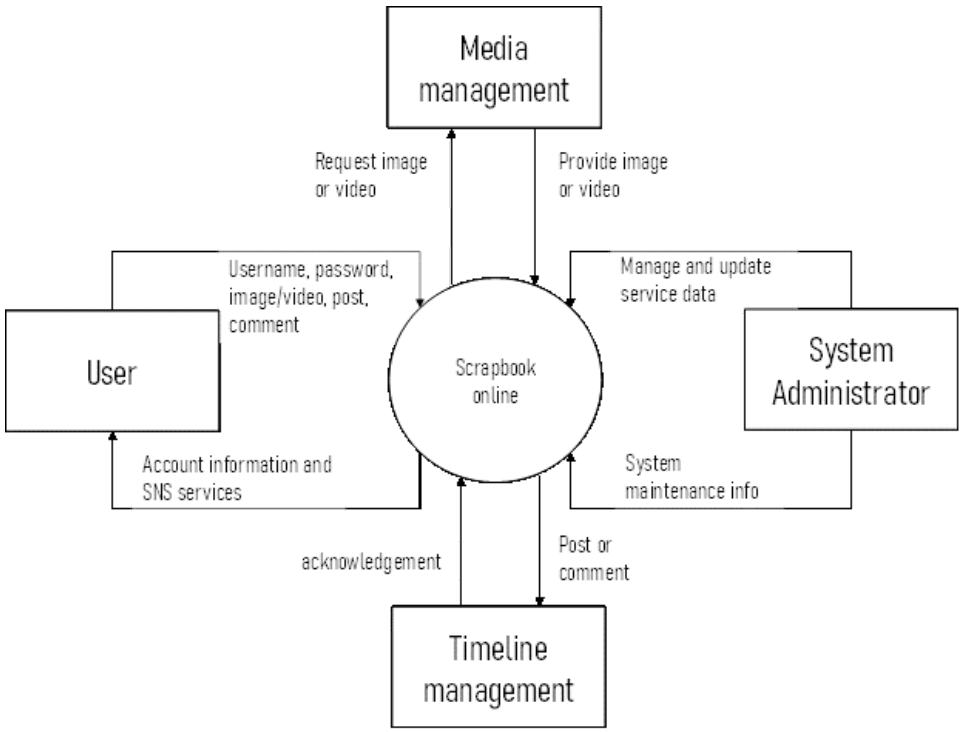
a. Now draw a level 1 diagram using the following scenario.
   Control panel send user command and data to Interact User process. This process sends a configure request to configure management process and start/stop signal to Activate/Deactivate system process. Configuration information datastore receives configuration data and sends it to the Display messages and status process. Display messages and status process also receive A/D messages and send display information to control panel display. On the other hand Monitor sensor process receives sensor status from sensor and configuration data from Configuration information datastore. It also sends alarm type information to Alarm, sensor information to display messages and status and telephone number tones to telephone lines.

b. Now design a level 2 diagram for the Monitor sensor process based on the following scenario.
   Read sensor subprocess receive sensor status and select sensor ID, type to setup assessment process. This process also receives configuration data and generates alarm type and telephone number tones. Finally it sends sensor ID, type, location to Format for display process which ultimately creates sensor information.

   Solution:


Control panel
User commands and data
Configure system
Configuration data
Interact with user
Configure request
Configuration information
Start stop
Activate/ deactivate system
Configuration data
A/D msg.
Display messages and status
Control panel display
Display information
Configuration data
Sensor information
Alarm
Sensors
Monitor sensors
Alarm type
Sensor status
Telephone line
Telephone number tones


Format for display
Sensor information
Alarm type
Configuration information
Sensor ID type, location
Configuration data
Assess against setup
Read sensors
Sensor ID, type
Sensor status
Telephone number tones



3. Suppose Scrapbook is a new social networking site. From the initial requirement a context diagram is drawn above. Now you need to design a level 1 diagram based on following information.

a. User provides a username and password to the system. login/registration process receives it and sends it to the user info datastore for checking purposes. The datastore returns account information and finally users can see their account information. Now user can upload any image or video to their account. Requested data sent to media management. Media management then provides image or video to the media processing process. User can also post or add comment which are handled by the post/comment management process. This process for the post/comment to timeline management and it stores it in post/comment datastore. On the other hand, the system maintenance process retrieves updated system data and sends it to system administrator. System administrator then sends updated service data to manage the service data process and it sends SNS service to the user.