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Software Design Section 2 Question 22

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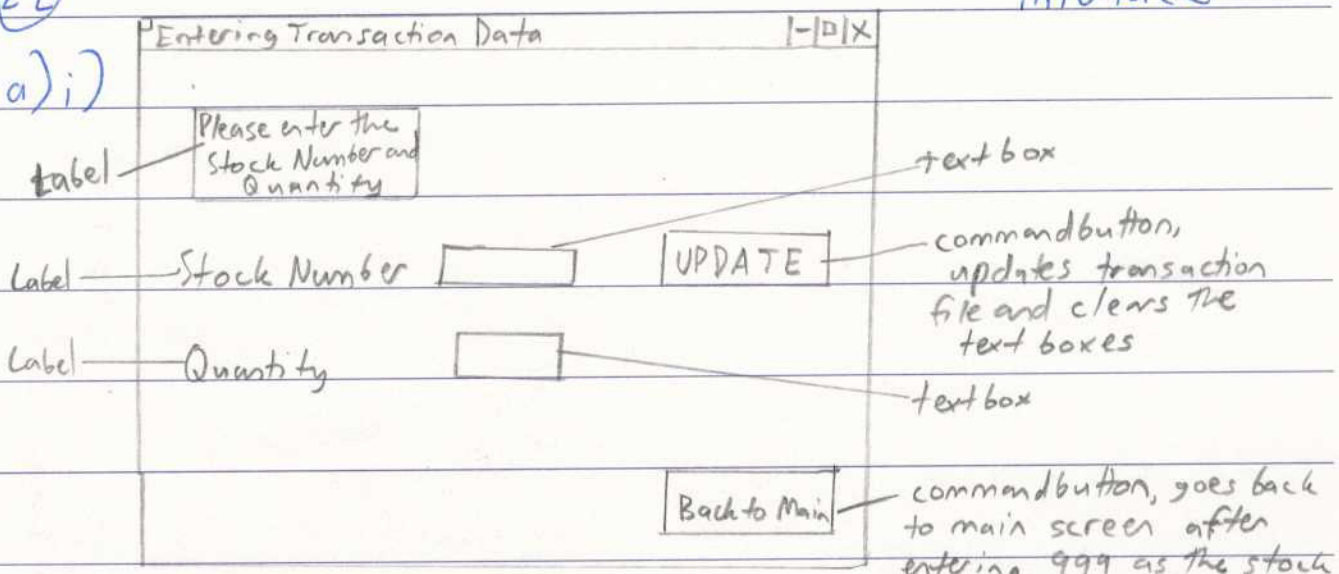
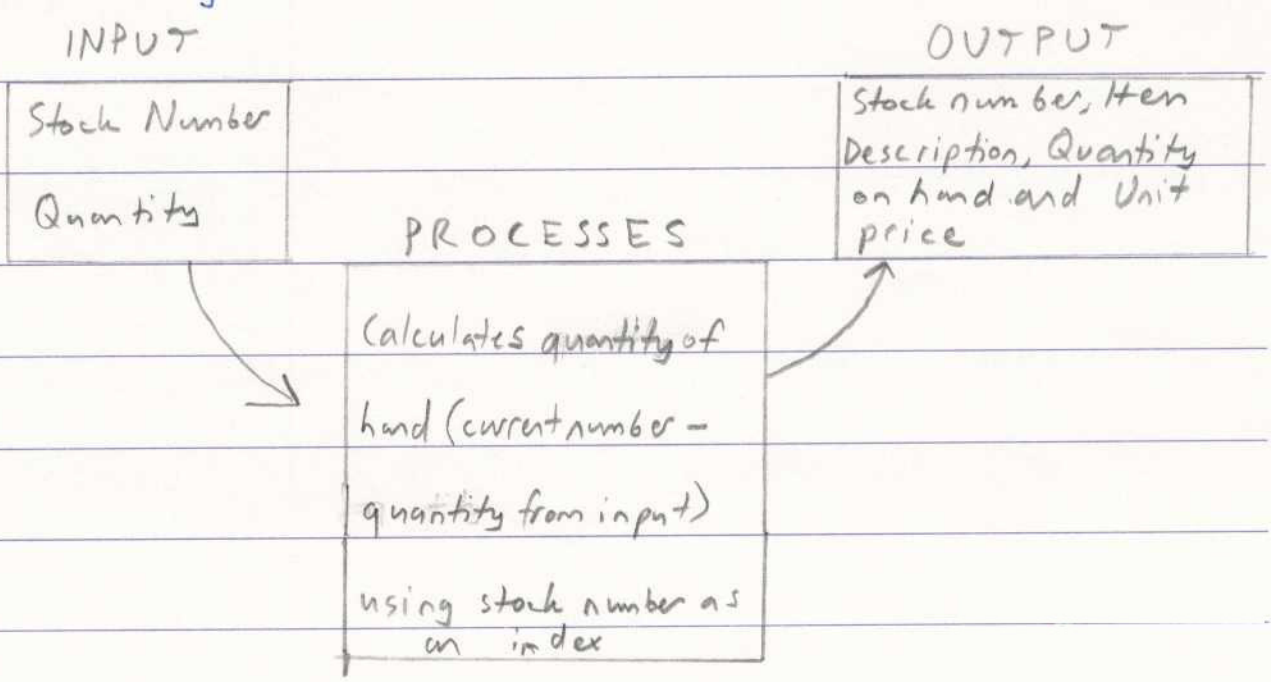
a) i)

Interface



ii) IPO Diagram



a) iii)

```
BEGIN Update Inventory.
    Open InventoryFile as random
    read stock number
    read quantity
    if stock number <> '999' then begin
        CheckStockNumber (stocknumber)
    current quantity = InventoryFile [Stock Number]
    currentquantity = currentquantity + quantity
    Update Inventory File
    CheckQuantity (current quantity)
    read stock number
    read quantity
    end if
END

BEGIN CheckStockNumber (stockno)
    found = false True
    if InventoryFile [stockno] = null then
    found = false  print "That stocknumber is not
                   valid"
```

```
    end if
END
```

```
BEGIN CheckQuantity(quantity)
    ~~if InventoryFile~~
    if quantity > 3 then
        print "There are less than 3 in stock"
    end if
END.
```

b) Two types of documentation are the Gantt Chart, which is developed during the planning stage of the development cycle and using throughout, and the technical documentation which is developed during the building and testing stages and used during the modify stage.

Gantt Charts give a time line of when each aspect of the software solution must be begun and completed. These are used throughout the development cycle but particularly using the

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building stage. These are useful as they keep programmers on track and within the desired time frame - which is especially important during coding.

Technical documentation includes data dictionaries and diagrams which may be needed after the program has been complete. These are useful during the modifying and maintainance stages of the development cycle because usually other programmers work on maintaining the program and may need to learn about the project through the technical documentation.