

Designing Effective Input and Output Method

Example-1:

Testy Food is a fast-food restaurant offering all kinds of potatoes. The manager has a 30-second rule for serving customers. Servers at the counter say they could achieve that rule if the form they must fill out and give to the kitchen crew were simplified. The information from the completed form is entered into the computer system at the end of the day, when the data entry person needs to enter the kind of potato purchased, additional purchased, the quantity, and the price charged. The current form is difficult for servers to scan and fill out quickly.

- a. Design and draw a input form (you choose the size, but be sensible) that lists possible potatoes and toppings in a manner that is easy for counter servers and kitchen crew to scan, and can also be used as input for the inventory/reorder system that is on the extranet connecting Speedy Spuds and Idaho potato growers. (*Hint: Remember to observe all the guidelines for good form design.*)
- b. Design and draw an output form to display screen that can be used by the servers and clerks to fill in the information captured on the form.

Example-2:

Daffodil International College needs to keep better track of students and others who use the many computers available in the Daffodil Library.

- a. Design and draw a representation of a display screen for students to use in signing into the computers in the library. Label the three sections of a display that you included.
- b. Design a paper form to be left alongside each computer daily that users who are part of the community (but are not students) are required to fill out. The form should ask for name, date and time of visit, general purpose for computer use and the time they have logged off. Label the seven sections of a form that you included.

Example-3:

Assume your group will serve as a systems analysis and design team for a project designed to computerize or enhance the computerization of all business aspects of a 15-year-old, trucking firm called Maverick Transport. Maverick is a less-than-a-truckload carrier. The people in management work from the philosophy of just in time, in which they have created a partnership that includes the shipper, the receiver, and the carrier (Maverick Transport) for the purpose of transporting and delivering the materials required just in time for their use on the production line. Maverick maintains 626 tractors for hauling freight, and has 45,000 square feet of warehouse space and 21,000 square feet of office space.

- a) Along with your group members, develop a list of sources of archival data that should be checked when analyzing the information requirements of Maverick.
- b) When this list is complete, develop a sample structure that would permit your group to get a clear picture of the company without having to read each document generated in its 15-year history.

Example-4:

Z Fry is a very popular food shop in the Dhaka. They want to develop an automated system for themselves so that their customers can place orders in the company's website. For this they give appointment to Jubilee and Tuni as a system analyst and programmer to develop a customer order processing system. In the proposed system, after submission of an order the system will check whether the items are in stock, if found then it will issue a status message to the customer, and will generate a shipping order to the warehouse, which will fill the order. When the order is shipped, the customer will pay the bill. The system will also produce various reports. On the other hand, to confirm the order customer should have to select the food name, quantity, spice level, phone number and email address.

An invoice will be created against the accepted order and will be sent both to customer and accounts section. A promotional package offered by the company will be considered during the invoice preparation. Any regular customer will get 2% discount. If the customer is a regular customer and order more than 1000BDT he will get 15% discount. If the customer is not regular but order more than 1000BDT he will also get 10% discount. For both types of customer, if they order two platters which cost is more than 500 then get 5%. In other cases no discount will be given. Customers are allowed to make offline or online payment using selective banks for Z Fry.

- a) Propose input forms for ordering products.
- b) Draw an invoice form generated by the system.

Example-5:

“Smart Technologies” receives order from distributors, resellers, and individuals for computers and accessories at a discount, which depends on the size of the order and type of customer. The clerk in charge stores and verifies the order and determines shipment cost. He also identified the type of customer for each order and sends related information to accounting department. An invoice is generated and accounts receivable are processed through the accounting department. Smart Technologies has following discount policy to generate invoice.

Distributor get a trade discount of 25% on orders of 500 computers or more, otherwise get 15% discount. For orders from resellers, 5% allowed on orders of 6-19 computers; 10% on orders for 20-49 computers; 15% on orders for 50-99 computers; 20% on order for 100 computers or more. For order individuals 5% discount is allowed on order of 3 computers or more; otherwise get no discount.

- a) Propose an online input forms for ordering products.
- b) Draw an invoice form generated by the system.