VICTORIAN
INFORMATION TECHNOLOGY

VITTA

TEACHERS ASSOCIATION

webworkforce
Building the Internet Workforce

DATA FLOW DIAGRAM - EXERCISE

Gifts Online

Gifts Online provides online purchasing facilities so guests who have been invited to an occasion can select gifts from lists that have been prepared by the host(s) of the occasions.

This will include ordering, provision of purchasing facilities, provision of secure e-commerce transactional facilities through to wrapping and delivery.

After guest has entered their username and password, the user can select the name of the person(s) for whom the occasion is being held from a keyword search facility. The system provides the user with the gifts that the host would like guests to look at. The user can view and select one or more gifts by looking at the Price, category, and details.

After the user has placed the gift(s) in the shopping trolley the user confirms the order. At this point a Secure Payment Gateway connection is established and the user is required to enter credit card details. After finally submitting the order, the company's inventory and payments databases are updated and the user is sent an email with order confirmation and delivery details.

For the educator

This system can form the basis of discussion about similar systems that the students have interacted with or have heard of.
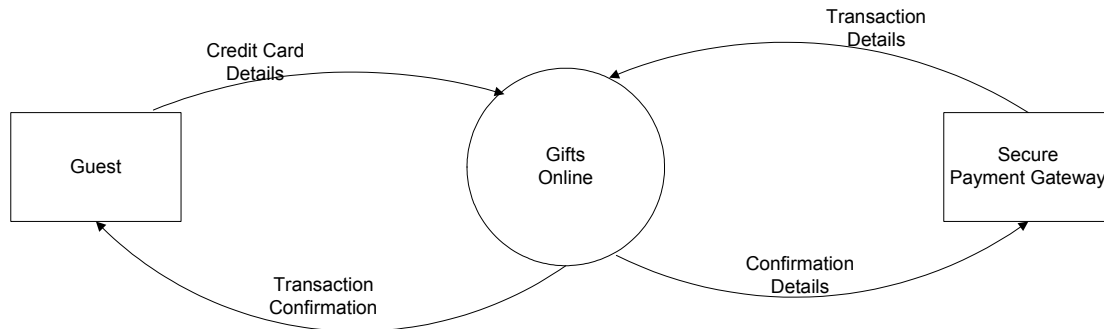
Typically, a business system analyst gets fragmented views of any system and user further analysis to complete the picture as it were. Students should become aware that the system supports a number of functions that are not available to general users and the processing for which is not described here (eg. Management of: users, inventory, suppliers, pricing and so on. For example, students need to be aware that Guests and the event to which they are invited must have already been created prior to their visiting the web site.

This example can be levelled to a 3rd level because the Level 1 process Confirm Payment has 5 flows and is too complex to show all the processing that will be required by the system.
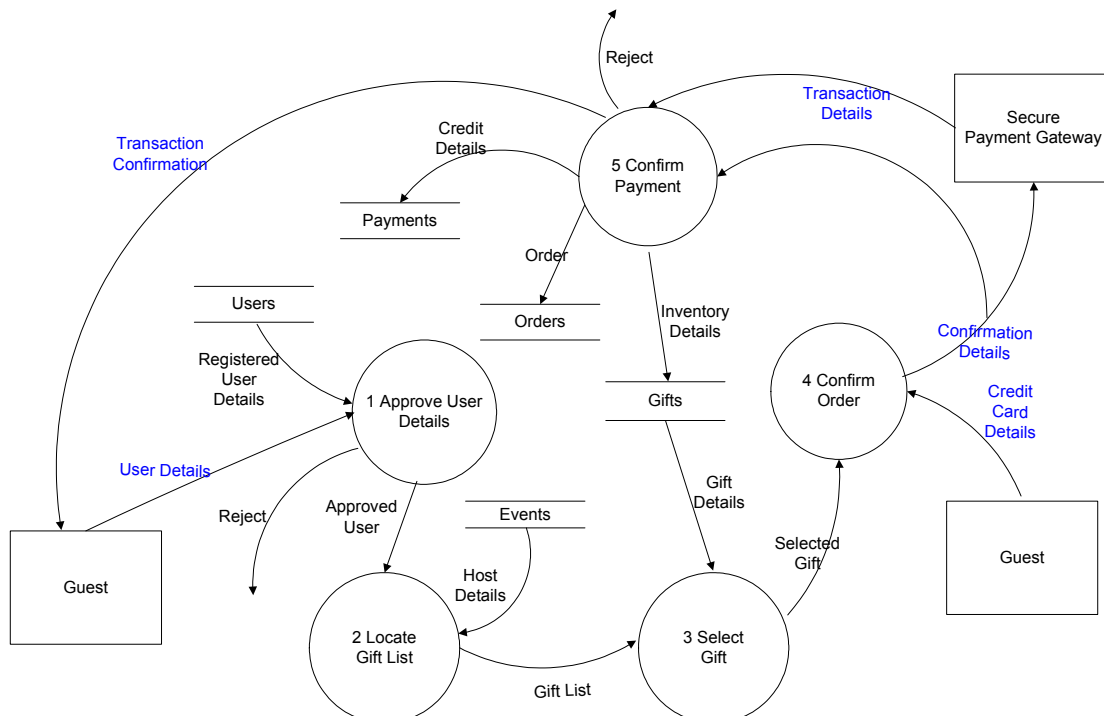
DataStores do not provide a normalised view of data at rest. For example, for simplification, the Gifts datastore contains master-record details of all gifts and gift types as well as gift inventory details (eg Quantity on hand, quantity ordered).

SUGGESTED SOLUTION

Level 0 DFD (Context Diagram) – Gifts Online System

Level 1 DFD – Gifts Online System

Level 2 DFD – Gifts Online (Confirm Payment)