

AS91879 Develop a digital outcome to manage data

Brief

You are required to design a database table according to specifications issued by a client. The table is meant to keep record of stock that is being held by a supermarket. The details about the stock that need to be recorded are as follows:

Barcode number: This consists of 13 numeric digits. The digits, however, will not be mathematically manipulated.

Description: This is a simple description of the item that would appear on the item's package or label. "Williamson's Baked Beans" would be an example.

Manufacturer: The official name of the manufacturer of the product. "Williamson" would be an example. You must select 3 – 5 manufacturer names and ensure that only those you have selected will appear in the table. For copyright reasons don't use names of real manufacturers.

Department: This would be the different departments within a supermarket. Examples would be "Dairy", "Tinned Foods", "Confectionery". To make the project realistic you will need 3 – 5 different department names. Again ensure that the user enters only one of those names as a department for each item.

Wholesale Price: What the supermarket paid for the product.

Retail price: What the customer is charged for the product. This must be a value between 0.8 and 25.

Amount in stock:

Reorder level:

Reorder amount:

Amount sold:

(The four data items directly above are meant to be integer values.)

Facilities must be provided for adding, browsing, modifying and deleting data.

Table Design

A table must be designed according to the above specifications. Names must be compatible with database standards as well as for user-friendly display.

Forms

Data entry and other processing must be done using a form or separate forms. Form(s) must be designed to provide positive user experience and must be compatible with Human-Computer Interaction guidelines.

Marking scheme

Table created according to specifications	A	
Testing procedure applied to barcode and retail price	A	
Integrity procedures applied to both manufacturer and department	A	
All processing of data possible through a form	A	
Field names compatible with database standards	A	
Copyright issues addressed	A	
Short report on facilities provided and suggestions for further enhancement	A	
Invalid data rejected for barcode, manufacturer, department and retail price	M	
Separate forms for adding modifying, browsing and removing data	M	
Form labels compatible with HCI standards i.e. proper English	M	
Invalid data for manufacturer or department rejected	M	
Short report on how the above criteria have been met	M	
Form design optimised for:		
keyboard only users	E	
ease of label-data association	E	
Logical separation of functionality	E	
Prevention of accidental corruption of data	E	
Nature and purpose of each form clearly indicated	E	
Short report on how the above criteria have been met		