

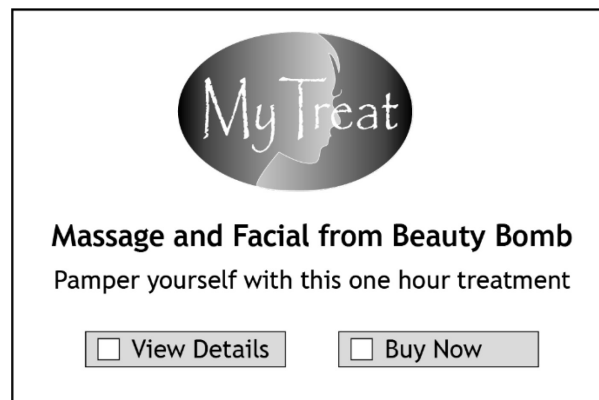
Task 2: database design and development (part A)

MyTreat is a company that is developing a database of voucher offers from a range of suppliers.

Suppliers will offer vouchers in the following categories: Food, Beauty, Adventure and Family. A supplier may have more than one active offer in the database at a time and can sell many vouchers for each offer.

Customers registered with MyTreat will be able to purchase multiple voucher offers. Vouchers will be sent to the customer's email address.

Vouchers will be promoted on the MyTreat website. An example is shown below.



The database development team at MyTreat asked the staff how they would like to use the database. Some of the comments are shown below.

We want to offer bonuses to customers who spend the most money. I need to know how much money customers are spending.

I need to give suppliers regular updates on how many of their voucher offers have been sold.

Customers often ask us to recommend offers. I would like to be able to look for specific categories of offer to send to the customer.

It's my job to analyse the voucher offers to see which are most popular. I want to be able to see our best and worst sellers.

I'm responsible for GDPR so I need to be able to keep all the customer and supplier data accurate and up to date.

- 2a Using the information gathered from the staff comments, create two functional requirements of the database.

(2 marks)

Functional requirement 1

Functional requirement 2

Candidate name_____ Candidate number_____

2b The following tables have sample data showing:

- ♦ vouchers included in each customer order
- ♦ customers who made orders
- ♦ supplier of each voucher

Voucher	CustomerOrder
Voucher2	Order1
Voucher4	Order2
Voucher5	Order3
Voucher4	Order4
Voucher1	Order5
Voucher3	Order6

Customer	CustomerOrder
Customer1	Order1
Customer3	Order2
Customer1	Order3
Customer2	Order4
Customer1	Order5
Customer2	Order6

Voucher	Supplier
Voucher1	Supplier3
Voucher2	Supplier1
Voucher3	Supplier3
Voucher4	Supplier2
Voucher5	Supplier2

Using the information from the sample data, complete the blank entity-occurrence diagram on the following page by:

- ♦ naming the entities
- ♦ completing the sample instances provided for each entity
- ♦ showing the association between those instances

(3 marks)

Entity-occurrence diagram

Entity Names			

- ♦ Check your answers carefully, as you cannot return part A after you hand it in.
- ♦ When you are ready, hand part A to your teacher or lecturer and collect part B.

Candidate name _____ Candidate number _____