Requirements Specification

# Purpose

This project will create a database to hold information about BMC Trainers customers, stock, suppliers, orders and payment types. It will also allow users to produce reports to provide easily digestible information.

# Scope

This system will allow for the addition, modification and deletion of products and payment types. The addition and deletion of sales records. The production of stock and sales reports. This will all need to be complete within a timespan of two months.

# Aim

The aim of this project is to deliver a database suitable for BMC Trainers to allow the recording of order, customer, payment type, stock and supplier information.

# Objectives

## Specific: I will build a database for BMC Trainers to improve overall efficiently

**Measurable:** I will work on the database for 1 hour each day and the goal is to have it complete in 2-3 weeks

**Achievable:** I will finish building the tables within one week

**Relevant:** I want to help the people at BMC Trainers be able to work more efficiently

**Timely:** I will have the database completed before May 12th

# Definitions

* Customer – A person that has made or will be making an order
* Order – When made by a customer it records the order date, payment type ID, customer ID and any notes
* Payment Type – A recorded payment type a customer can use
* Product – An item held in the database able to be purchased
* Supplier – The company that supplies BMC Trainers with stock

# Functional Requirements

### The system will allow the user to:

Must have (**M**)/Should have (**S**)/Could have (**C**)/Won’t Have (**W**)

|  |  |  |
| --- | --- | --- |
| Item | Description | Rating |
| 1 | Store new customer information | M |
| 2 | Store new order details | M |
| 3 | Store new payment details | M |
| 4 | Store new supplier details | M |
| 5 | Store new product details | M |
| 6 | Views for reports created | S |
| 7 | Delete order | S |
| 8 | Delete Payment type | S |
| 9 | Reports displayed in excel spreadsheet | S |
| 10 | Delete product | S |
| 11 | Excel spreadsheet has dynamic navigation | C |
| 12 | Doesn’t allow orders to be created in the past | C |
| 13 | Allow editing of payment details | S |
| 14 | Inclusion of modification log | C |
| 15 | Allow editing of product details | S |
| 16 | Integration with external database | W |

## Entity Descriptions

## Customer

|  |  |
| --- | --- |
| Attribute | Description |
| CustomerID | This will be a unique key identifier for each customer so the database can distinguish each customer. |
| Title | The preferred title a customer goes by. |
| Forename | A customer’s forename. |
| Surname | A customer’s surname. |
| D.O.B | A Customer’s date of birth. Store in the database as a date. |
| Address1 | The first line of a customer’s address. |
| Address2 | The second line of a customer’s address. |
| Town/City | The town or city the customer’s address is located in. |
| Postcode | A customer’s postcode. |
| TelNo | A customer’s telephone number. |
| Email | A customer’s email address. |

## Order

|  |  |
| --- | --- |
| Attribute | Description |
| OrderID | This will be a unique key identifier for each order so the database can distinguish each order. |
| OrderDate | The date an order is placed |
| PaymentID | The unique key identifier for the chosen payment method. |
| CustomerID | The unique key identifier for the customer that has made the order. |
| Notes | Any notes requested by the customer or staff member in charge of the order. |

## Payment Type

|  |  |
| --- | --- |
| Attribute | Description |
| PaymentID | This will be a unique key identifier for each payment type so the database can distinguish each payment type. |
| PaymentName | The name of the payment type. |
| Description | A description of the payment method. |

## Order Item

|  |  |
| --- | --- |
| Attribute | Description |
| OrderID | The unique key identifier for the related order. |
| ProductID | The unique key identifier for the ordered product. |
| Quantity | The quantity of the ordered product that is needed for the order. |

## Product

|  |  |
| --- | --- |
| Attribute | Description |
| ProductID | This will be a unique key identifier for each product so the database can distinguish each product. |
| ProductName | The name of the product. |
| Brand | The brand of the product. |
| Make | The specific make of the product |
| Price | The price as the product. |
| Stock | The number of said product that is currently in stock. |
| SupplierID | The unique key identifier for the supplier of the product. |
| Discontinued | In case the product is discontinued this can be set to true. |

## Supplier

|  |  |
| --- | --- |
| Attribute | Description |
| SupplierID | This will be a unique key identifier for each supplier so the database can distinguish each supplier. |
| SupplierName | The name of the supplier. |
| TelNo | The telephone number for the supplier. |
| Email | The email address of the supplier. |

# System Constraints

* The project must be completed within 8 weeks
* The database must be accessible from several different users simultaneously.
* The database must be able to store information about customers, orders, payment types, products and suppliers
* The database must be able to produce sales reports

# Stakeholders

|  |  |  |
| --- | --- | --- |
| Name | Organisation | Role |
| James Steffan | BMC Trainers | Main Client Contact |
| Ethan Russell | Project Team | Developer |

# Data Flow Diagram(s)

# Diagram Description automatically generated

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# Project Schedule and Milestones

