# Assignment requirements

**Prescription Orders Management System**

This case study is relatively straightforward, and hence can be tackled by most beginning modelers fairly effortlessly.

**Background**

A Shop wishes for us to design and develop an automated Orders Management System (OMS). The requirements are as follows:

The system is to keep track of the following information for each order, customers and list of items are bought by customers.

1) Informaiton of a Product

* Product name as a string
* Product id as a string
* Product price as a double value

2) Informaiton of an Order

* Order id as a string
* Date created as a string
* Customer name as a string
* Customer address as a string
* List of products (are chosen by customer)

The system is required to support the following queries:

1. Add a new product to the Store
2. Update price for a particular product
3. A list of all available products in the Store
4. Create a new Order
5. Print information of an Order by Order ID
6. Sort all products by product price as ascending
7. Print information of all Orders by a specific customer ID
8. Export information of a specific Order ID to text file

Important to note:

* Product ID, Order ID and customer ID should be generated by system
* Validate all entered data, make sure that a string value cannot be null or empty, a number value must be correctly format.

Some sample output

|  |
| --- |
| ...Show menu here...  Select your choice: 4  Order ID: OD1902  Order Date: 01/01/2017  Enter customer name: DuyDT  Enter customer address: Ha Noi  Add product to order by select a product from below list  Product ID Product Name Product Price  1109 Chai 0.9  1229 Cheng 3.4  Enter Product ID: 1109  Enter Quantity: 3  Add more product(y/n): n |