Project: Build a Sales System

Requirements

You are building a sales system on behalf of a furniture company. This sales system is for customer use, **not company use**. For the purposes of this project, the company only has one customer.  
The system must:

* Keep an inventory of stock items and their cost
* Allow the customer to view the current quantity and cost of each item
* Allow the customer to see their current balance
* Allow the customer to purchase an item if it is both in stock and they have enough money to do so
* Inform the customer if they do not have enough money to purchase an item
* Inform the customer if an item is out of stock
* When an item has been purchased:
* Update the inventory
* Update the customer’s balance

The furniture company’s initial stock is:

|  |  |  |
| --- | --- | --- |
| Item | Cost | Quantity |
| Armchair | £214 | 2 |
| Sofa | £899.25 | 1 |
| Kitchen Table | £329 | 4 |
| Kitchen Chair | £78.99 | 16 |
| Bed | £340.99 | 3 |
| Chest of Drawers | £249 | 7 |
| Bookcase | £199 | 6 |

The customer’s starting balance is:

£1087.65

Additional Information

Preferably, this project should be completed in C#/.net although you may use any other software development language/framework if you prefer.

The system you build must meet the requirements outlined above. Beyond that, there is no ‘correct’ way to complete this project.

During your project review you will be asked to discuss why you have built the system as you have and the process you went through when designing and building it. You will also be asked what challenges you faced and how you overcame them.