# Project Task

Decorating Company

John, a local decorator in your community, has approached you to keep track and cost of his jobs. He lays carpets for customers. He has to give his customers accurate quotes, after he has taken measurements. You are required to develop a computer system that will help him to do this.

**Carpets**

When a room measurement is taken, the length and the width are taken to find the area of carpet needed in square metres. He also supplies underlay to go under the carpet and gripper to run along the edge to hold the carpet in place. The underlay required is the same as the amount of carpet required. As the gripper goes around the edge of the carpet, the length of gripper required is the perimeter of the carpet.

Some rooms have bay windows, fireplaces and other obstacles; therefore John has to cut the carpet before laying. This does not reduce the price of the carpet. The table below shows the price structure.

|  |  |
| --- | --- |
| Item | Price |
| Carpets | £22.50 per square metre |
| Underlay – First Step | £5.99 per square metre |
| Underlay – Monarch | £7.99 per square metre |
| Underlay – Royal | £60 per square metre |
| Gripper | £1.10 per metre |

In addition to the raw material, John charges £65 for each hour worked as a minimum for all jobs. He estimates that it requires an hour for each 16 square metres; this is therefore calculated once the amount goes above 16 square metres.

**The system should allow the user to:**

1. Enter the customer’s details
2. List all customers in the system – from this list you should have the ability to add new, delete a customer or view a quote linked to a certain customer
3. Add a new quote
4. List all quotations – with an itemised list of the material and labour costs for each job
5. Save customers and quotation details to an external file

**For each customer the system should save:**

* First name and surname
* Town
* Telephone number

**Each quote consists of:**

* A customer – the system should be able to add a new customer or select an existing customer when creating a quote
* The dimensions of the room (length, width)
* Select the type of underlay
* Calculate the overall cost

You should develop the part of the system that allows the user to save a quotation for later use.