Defining the Problem

My Client is Mr. Lokesh Garg, Manager at Satya International. His firm imports all kinds of wire mesh including mesh from China and Europe and then the firm sells it all over India. There is a lot of variety in the quality, metal and the size of the wire. Mr. Lokesh must make bills and calculate the final price of the product in order to sell it. The price depends on the weight, mode of transportation, quality and the size of the wire etc.

All this is managed by Mr. Lokesh himself and he is dependent on paper and sometimes on MS Word. He writes or types himself, which is very time consuming and since it is paper based, the chances of human error are very high which often leads to losses in business. Mr. Lokesh has tried many software that can generate bills, but that software cannot calculate prices as they are not specific to the firm's products. Moreover, the prices keep changing monthly and my client is unable to remember all of them and has to refer to a different software for that which is of grave difficulty.

Rationale for Solution

After discussing the problem, I decided to make price calculating software that can solve all the problems stated above.(refer to Appendix-5 for letter of authorisation)

The software will display all the prices of the product which can be modified, the client will input the quality, size, weight. Using all this data the program should search for the product, calculate the price according the size and weight and then it should display the final price. The program should be cross platform as the office uses different operating systems and should be secure, to reduce risk of breaches. It should also ask for username and password for security.

I have decided to use Java to develop my software as:

- It is secure which reduces risk of breaches
- It is platform independent and architecture neutral
- It is very simple to use
- It is very powerful tool
- It requires no licensing

I will also use MySQL for database which will allow to add, edit and delete entries in the programme. It has high-performance, data security and the flexibility of open source.

Success Criteria

1. All the prices of products are displayed.

2. Price of a specific product can be searched.

3. Inputs for size, weight and transportation can be given

4. The product price can be calculated without any error

5. Final amount is displayed at the end of the bill

6. The amount can be displayed according to customers

7. Provide a user-friendly interface that allows the user to use the program easily

8. It is secure and asks for username and password reducing breaches

9. It can be updated for any customer detail changes

10. the admin can edit and remove other users

11. the user can sign out or exit the program safely and easily

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