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ASSGNMENT 1

Software Engineering

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**Abstract of cylinder booking management System**

To ensure a simple and secure environment for the consumer and the agencies we are making the ‘Online Gas Booking System’. Through this system, we are solving the customers’ problems in a lot of way like to book their gas cylinder from home without travelling to the agency and stand in a queue to just book the gas.

On the other hand, it also makes easier for the agency to check the number as a person has booked in a specific amount of time and the person who is booking the gas is authenticated or not whether he/she has brought the bottle within the time period, to get his gas booked.

It also prevents any error while registering the gas as if it’s done manually there is always a chance of omission and oversight. It also helps the agency to move from a manual system of registering the data to storing it online which digitized the agency and reduces their overall carbon footprint.

It will avoid the agency from spending a huge amount of their budget in maintaining the manual records and updating them from time to time. As the customer moves from another city its records can be easily transferred or deleted from the record.

All the operation will become easier as all information that is provided from the system is very reliable and high amount data space is used.

It also influences the user registration for the booking and the transaction process as it has the simple interface for booking the system through which customer can easily book the gas cylinder after that a payment process is also secured.

The determination of system is to provide the user with simple and secure software which is understandable, easier to store and search the information.

**EXISTING SYSTEM OF CYLINDER BOOKING MANAGEMENT SYSTEM**

We can say that Existing system of Gas Booking System works computerized in a building or manually with pen-paper.

This creates a very hectic procedure to manage as everything is on spreadsheets, file and binders, the same situation will occur in offline computerize method though everything is on the one system which is not globally present.

Whenever a customer requires the gas he/she have to travel to the agency and make a demand for gas which is recorded in a separately in a registration file, then the previous delivery made to the customer is searched and the number of days from that date till now is calculated.

If the number of days is expired only then the order is accepted, if not the order placed will be rejected. Then the valid order request is taken in and a billing is done manually.

The order is for two purposes as domestic and commercial. The billing is done based on the above two categories and the rate is charged. Then the stock of cylinders is also maintained in manual records.

So, while billing this also has to be taken into account and billed. This involves a great processing and the time is also wasted. Following this kind of system does not only require a lot of human resources but also budget for maintaining them and stationery required.

Whereas in our system whenever a customer makes a demand or places an order through a phone call or by travelling personal to that place, it is received and immediately checked by billing.

The customer’s name, address, last date of delivery is all maintained in the database. So, when the customer order is received and billed, the system automatically calculates the number of days from the previous delivery, if valid the billing can be done, if not the billing cannot be done and the customer can be informed about it.

So, the manual process of recording and billing is done easily without any paper work. The stock of gas that is recorded and maintained manually is made computerized.

So, while billing based on the stock the billing charge and capacity is made. When the stock goes below the limit, it can be easily identified.

So, by this project, the process of ordering, billing and stock maintenance for a gas agency can be processed easily. In the manual system if a customer leaves the town then the staff has to find the record in the binders or spreadsheet which will consume a lot of time and resources.

It also makes the compulsory to do mundane work of daily update the stock register.This shows us various drawback in this system which are:

All the process is time-consuming.

Every process requires proper arrangements which will need a human resource.

Managing the staff entails to spending the money increasing the budget.

Booking process increments the level of complexity as the number of customer coming to book gas increases.

Information is not available globally to both customer and agencies.

Staff manually evaluating the validity of customer is susceptible to faults and mistakes.

## PROPOSED SYSTEM OF CYLINDER BOOKING MANAGEMENT SYSTEM

Once the planning and analysis of the project are completed, the design phase begins. The goal of system design is to transform the information collected about the project into the blueprint structure which will serve as a base while constructing the system.

It is considered to be an unwieldy process as most of the errors are introduced in this phase. However, if an error gets unnoticed in the later process it may become difficult to track them down.

In our system, we are developing a system which helps in customer book a gas. The new system will maintain and store all the record without any overhead cost. All the process of booking will be web based online which makes it robust and globally available.

It will have transaction details which will store all the information regarding the payment of the booking as well as the total transaction record will be maintained which holds the record of a number of commercial and domestic cylinders have been sold on a particular day.

The billing record is stored separately so the agency can check the last bill of the customer just by matching his/her id without any hectic work of looking in the file manually. It will minimize the problems faces by both customers and the agency in the duration.