StayClean Initiative

Introduction

A local NGO, Stayclean, together with a young entrepreneur in Muyenga community have sought a computerized solution to help in the management of communal sanitation endeavors.

The NGO has 5 sewage trucks and always receive calls from communal members whose latrines or septic tanks needs to emptied. 4 garbage trucks that regularly visits home steads to collect Garbage at all this at a fee.

Software Solution

A registered user with a valid username and password is eligible to use the system.

Register each truck drivers;

Names, gender, date of birth (only >30 years), NIN, residence, driving license number, past incidence (accidents, fights, fuel thefts etc),

For conductors; name date of birth, NIN, residence

Record all customer request calls for the services;

Customer names, location, service requested for (can be one or more), national id number, number of trucks needed, time requested, phone number, type of request. (subscription or one time)

Assign the trucks to customer calls;

- Name of the driver (must be already registered in the system), number of truck conductors, their current area location (it can be non-meaning the truck is at the office or not at service), date, Next Destination (it can be non), truck Registration Number, truck code number which is unique to each truck, Date

Report all earning from the services;

Displays all earnings recorded;

- Each home collection is worthy 25000shs for garbage collection and 175000shs for sewage weekly
- To get the truck daily earning we get the service X number of routes per day.
- Customers can subscribe to the services which earns him/her a discount of 20000 and 160000shs for garbage and sewage respectively for 6 months. In this scenario the money is allocated to the truck assigned

Keep truck of trucker operator's wages;

- A driver gets 350,000shs monthly, plus 5000 daily payable weekly.
- Trucker conductors, each 10,000 per two days payable weekly

Validations:

- All names must be real names in strings, started with capital letters, maximum of 50 characters, not less than2.
- Phone numbers should start with +256,
- Shillings is the currency of choice.
- All workers must be 18 and above, trucker drivers should be 30 and above years old.
- All NIN should be in the real format.
- Truck code is alphanumeric 6 characters with the first 3 characters in capital letter, the rest are numbers.
- All recordings should not be empty
- All services are pre-defined in the system with their respective amounts
- All user names are starting with 'STC', the rest are numbers, choose a meaningful length.

As a refactored student, you are required to build and present a web software solution to achieve the above requirements.

Use Html, Javascript, Nodejs, Mongodb, and all other non-tech skills to achieve the above project

GOOD LUCK.