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**INTRODUCTION**

Stock manager portal is a faster, secure and easier online web application design to fast track the process of carrying out time consuming stock operation compared to the manual process which is time consuming, inefficient and not transparent.

However the purpose of Stock manger portal is to computerized the process and accessibility of the features on the **GO** both web and mobile anytime anywhere.

**PURPOSE OF THE PROPOSAL**

The main purpose of this proposal is to design and implement an online stock control system which will assist the organization and the stake holders to manage their day to day trading activities efficiently.

**STATEMENT OF THE PROBLEM**

The manual process of accessing the stock is very tedious and time consuming which in turns is not efficient when an urgent request for an operation is submited from a client, it goes through a manual process to the administrator which might take days, weeks or even months before the operation can be carried.

The issue of efficiency should be put in place first any system, but the current system does not catered for that.

This introduces us to the proposed solution called **STOCK CONTROL MANAGER**.

**PROPOSED SOLUTION**

The new system will be implemented in two sections

i. The Client/Customer section

ii. The Administrator section

**THE CUSTOMER / CLIENT SECTION**

This section provide one way authentication login after the customer successfully registered his / her basic biodata on the portal, authorized and authenticated customer can now login and access their personal pages to perform operation within their finger tips everywhere and anywhere without any hassle.

Features of the client side are as follows.

**Wallet**

This is a reserved money paid in or transferred into the customer wallet account to performed operations like.

* Payment of alert / notification if configured by the admin.
* Stock can be bought using fund from there wallet.
* Any money realized from the sales of stock will be credited to the wallet.
* A customer may decide to fund another customer wallet from his / her own wallet. This is called transfer.

**Transaction History**

This shows log of how wallet is been credited and debited according to date and time, and can also be filtered based on categories i.e.

* Incoming transaction history.

Transfer from another customer.

Savings

Sales of stock

* Outgoing transaction history.

Platform charges

Transfer to other customer

**Buy Stock**

* + Stock can be purchased from the portal while the money will be deducted from the wallet balance if there is sufficient fund, else the stock purchase operation will not be successful.
  + **Payment gateway(optional) (Interswitch or GTPay)** is another medium for stock purchase.
  + Customer can pay to bank and submit the teller details to the admininistrator via the portal which in turns can be used to purchase the stock on behalf of the customer after the teller is being confirmed.

**Sell Stock**

A Customer may decided to put up his / her stock up for sale on the platform which will be posted on every customer's dashboard along with an SMS and Email notifications, and he or she will receive instant buyer negotiating about the product for sale on the platform

**Transfer Stock.**

A stock transfer request can be submitted via the portal which when confirmed and cleared by the administrator, the stock will be transfer to another registered customer and all the details associated with the stock will be change to the new customer name, when the news customer logged in, a flash message will popped out, notifying the customer of a transferred stock in the account

**Stock log / balance**

All stocks associated with a customer name will be shown as a report to the user, these reports will be broken down into pieces where the customer can view all activities going on or activities beign perform independently or all at once on a stock via their personal pages.

**View current stock price**

New Stock prices will be posted to the dashboard and also be sent as a notifications via an SMS and E-mail in other to keep the stock market open and transparent to the customer, as this may help those that are interested to buy having the knowledge of the market value.

**Build your profile**

Customer will have to build their profile which can be accessed by another client for any upcoming transaction so as to know who he / she is trading with.

Pretty url will be available to each customer whereby a customer can be accessed by typing the customer name after the url, e.g [***http://mariot.com/myName***](http://mariot.com/myName)as this will enable a faster way of accessing information.

Customer may decide to set his / her profile public for everyone to see or private.

**Dashboard**

Latest stock trending news, RSS feed, Stock price, Stock auction will be posted to the customer dashboard by the administrator.

**Notifications (email & sms)**

Notification services **(Email and SMS)** will be received if configured by the administrator.

Notification ranges from latest stock price, stock news, wallet alert, messaging alert and other useful and urgent information that the customer needs to be aware of as these will help the customer be aware of whats happening in the stock market.

**Customer care support.**

Customer care support functionality will be provided so that the customer can logged any complain to the administrator and also receive solution via the same channels on the platform.

**Messaging**

Internal messaging functionality will be created in order to enhance communication between customer - to - customer and Administrator - to customer, this functionality will run like a semi Mail service system like Yahoo & Gmail mail services.

**The Administrator Section**

**Manage customers**

This tools is designed for the administrator to manage customer information, customer care support, buying of stock on behalf of the customer and other operations.

**Control customer operation**

This comprises of the operation the client can have access to having being configured from this channel by the administrator.

**Dashboard Management**

The administrator job is to post Stock news, Stock prices and other urgent news to the customer dashboard.

**Reports**

Reporting services will be implemented for the administrator to cover activities likes

* customer data
* Transaction history
* Wallet history
* Stock

**Messaging**

This service will be created to send either a single or mass messages to customer(s) in order to pass information between the administrator and the customer.

**ADVANCE SOLUTION (Optional)**

**Mobile Application**

Mobile applications ranging from **iOS, Android, Blackberry** & **windows Mobile** applications will be developed for easy access of the system.

The mobile application will be able to work online and offline i.e with or without internet connection, as these is a step up to the portal version of the system.

If the device is connected to the internet, the application will synchronized for the recently available data update and serve it to the customer if there is no internet as this will still also customer performed operations which will be queued or stacked and will be executed when the device is connected to the internet

**Payment Gateway**

This a service that will be bought from either interswith or other company and will be integrated to the platform in order to accept master card, visa card and other debit card payment.

**SMS Notification**

Bulk SMS will be bought if you choose to send an SMS notifications to client, Bulk SMS are sold in units; while email notification is free so far the customer supply a valid Email address when registering his / her details on the platform.

**WHY THE NEED**

The new system will eliminate inefficiency, time consuming and embrace transparency and faster way of performing operation which when done manually will take days to achieve.

Customers will be happy to perform and execute their operations on the **GO** anytime, anywhere without any delay, hassle, queue, time wasting and other mitigation affecting the manual system.

**PROJECT TIMELINE**

1. Web portal : 8 weeks

2. Payment gateway integration : 2 weeks

3. Mobile application : 8weeks

**COSTING**

Web portal : N000.000.00

SMS (per units) : N000.000.00

Mobile application : N000.000.00

Payment gateway : N000.000.00

**CONCLUSION**

The proposed platform is design to tackle and solve the problem of the old / manual system which the customer faces when performing operation.

It is no gain saying that the proposed solution will be built around the study and research works of the problems facing the manual system.