

UNDERSTANDING THE STRATEGY AND REQUIREMENTS FOR SUPPLY CHAIN MANAGEMENT OF AN ORGANIZATION.

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Abstract: Auto-Trade is not only about the making and moving of goods, but also the relationships that exist among a “chain” of firms that work together to provide a product or service. This integrated application will be used to work on various operations in a trading system. The operations include maintainability of Bank account, CRM, finance, Business Development, Sales and Transportations, These applications also maintain the retailers and wholesalers information's and dues dynamically. The super administrator will have the responsible authority to create new administrator (Distributor) and over previously mentioned users. Super administrator visits the new administrator and approaches for using the Auto Trade, collect the related information about the administrator that would be stored in database and be followed in the future. Suitable messages and emails are sent to the retailers and the wholesale dealers regarding trade etc.

Keywords: Auto Trade, Supply, purchase, Master/slave database, Retailer distributor relationship.

Introduction: The Auto-Trade Portal is completely loaded, web-based Software. It is user friendly software which is designed as a complete suite for all features of trading, process is like first admin will add the user, admin purchase the goods from the user and sells it to the retailers, generates the receipts for the sell happened between them which could be told has transaction between them is automated. This makes it most versatile software and can have for any type of organization. Auto-Trade helps in saving your money, time, where major and minor works can be done hassle-free.

In existing system it will load pages for each module or for any feature and it is not portable for

other devices. So in the project we have overcome from this by using Ajax, JQuery and bootstrap, by using Ajax no need to reload the whole page so the extra time consumed for reloading will be optimized. By using JQuery we can factorize the code. And we have used bootstrap so it will be portable to all devices. Supplier is a wholesale dealer who sells his products to the distributor, distributor will sell those products to the customer, customer will purchase the products from the distributor, and money is the constraint, which is connecting all entities. Here the user is centered to distributor, so he can purchase the products from supplier or directly from manufacturer and he will store that in warehouse and he will calculate all the expense like transportation, labor etc. And sells it to the retailer.

1. The tools use in Auto Trade

- **Bootstrap**

Bootstrap is a free and open source Collection of tools for creating websites and web applications. It contains HTML and CSS based design templates.

- **JSON**

JSON stands for JavaScript Object Notation. It is an independent data exchange format and is the best alternative for XML.

- **Ajax**

Ajax, which stands for Asynchronous JavaScript and XML, is a set of techniques for creating highly interactive web sites and web applications.

2. Drawbacks in existing system

- In existing system it will load pages for each module or for any feature and it is not portable for other devices.
- They have not used Ajax and JQuery. So reloading of the page occurs for every feature.
- They have used html and CSS for designing so it cannot be portable for other devices.

Proposed Advantages: In proposed system trading is completely automated, and this reduce the manual work and we have used AJAX where it will not reload the whole page, it will reload part of it which is needed and in early systems data was sent from one module to another module through normal array and here we will send through Java Script Object Notation (JSON) so data passing will more efficient. For front-end designing, bootstraps have been used and it will be more flexible and portable to other device.

3. Implementation: Auto Trade implementation involves the database called MYSQL, where a new concept is used to handle database i.e. Master/Slave concept. There are two separate database for the project, Master database would contain the login related data for the super administrator, administrator and user. Slave database contains the dynamic data related to the software i.e. data that is used for making the trade in the s/w and generate the report. **Benefits for using Master/Slave concept:**

- By using this concept that a new slave database is created every time when ever the super administrator adds a new administrator.
- By which we need not re-host the same website for every new client.
- By using this Master/Slave concept we can maintain the traffic.

Auto Trade is implemented using several tools such as AJAX, JQUERY, and JSON. It uses PHP language to write the business logic. Auto Trade is

implemented using the own developed Model View Controller (MVC).

Model View Controller (MVC) is a name or a methodology or a design pattern used for successfully developing interface. MVC is useful pattern used for reuse of code and a pattern that allows them to significantly reduce the time it takes to develop applications with user interfaces.

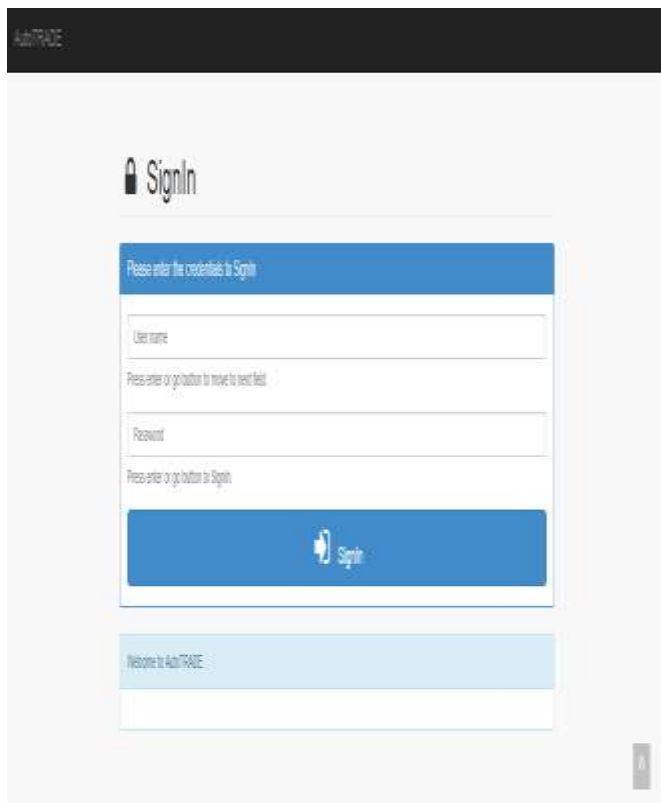
MVC pattern consist of three main components:

- Model, which contains the logical structure of data in s/w application and classes associated with it. This model does not contain any information about the user interface.
- View, which contains the HTML code that represents the user interface.
- Controller, which contains the classes connecting the model and view, used to communicate between the classes of model and view.

MVC model Diagram:



Login Page:



4. Modules

User:

User module can add new user, list user, delete, flag and unflag user and information about supplier/retailer.

Sales:

Sales module handles purchase from supplier and the selling of products to retailer. Module also handles Add/Edit/Delete of selling information and payment type. List all selling details and generating invoice.

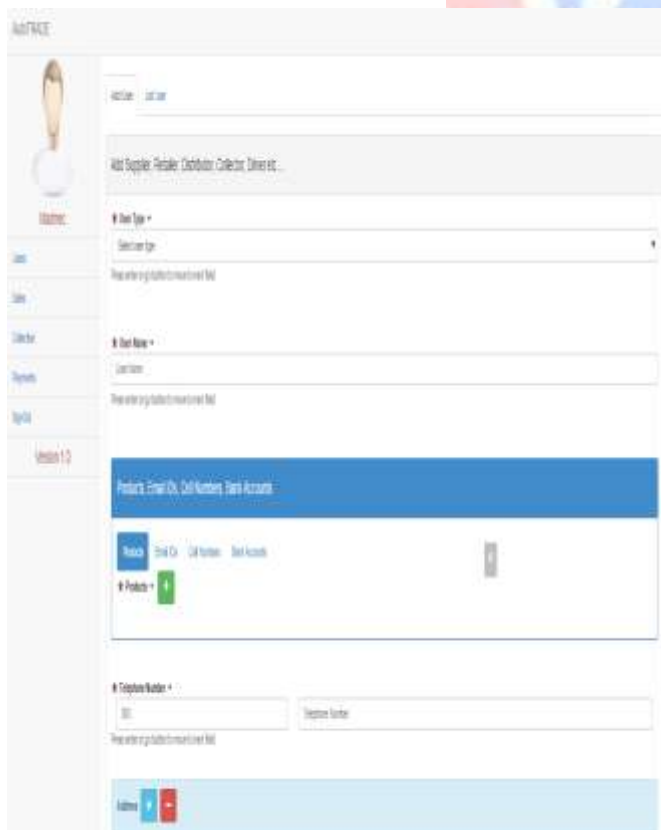
Collection:

Collection module collects the amount from the payer and deposits it into bank account.

We can also add new bank account if we want to add in the same Distributor name.

Future Work: Android Application is to be developed for Auto Trade, which would help the client to use the application for user friendly. In further also develop IOS application.

Dash Board:



5. Conclusion: The application should be able to generate suitable message such as generic emails, messages, invoice and buyer information, and seller information, due management activities, operational management such as testing of information provided by the end user.

6. References

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