ABSTRACT

TOPIC : TYRE WAREHOUSE

Project Nature : Mini Project Extension

Completion Level : Completion 60% of Mini Project

Tyre Warehouse is real time warehouse database fit for handling large inventories of an association. The system records the product sales and restocking information and also provide notification for low stock at any area at a predetermined interval. All major tyre brands available by the consumers needs. Distributors distributes product to the overall wanted tyreshops. Also suppliers will give new stock to the warehouse. Tyre warehouse also provide discount tires,mounting and balancing. Its main activities are the importation, distribution and retailing of **tyres**, batteries, rims and automotive products.Regular wheel alignment is important for the safety and longevity of your vehicle and it makes your car smoother and easier to drive.

Tyre warehouse system contains three modules administrator manages all the activities of seller and buyers. Admin panel is the overall managing panel .They can update new products and checkupon the stocks . Transaction in and out details are also directed by the admin panel.

Warehouse manager and sales manager check upon the transaction done under warehouse. and proceed upon the datas. Several Suppliers such as tire manufactures import stock to the warehouse . and eexportation are also provided by their own labels. The system is also capable of tracking in and out transaction of single or multiple stores as well as alson generate bill details. The system generate monthly reports of sales from which a manager of respective store would be able to know the monthly transactions done. Also raw material providers such as suppliers provide raw materials as synthetic rubber , carbon black , antoxidants to the warehouse from several manufactures. Workers recives , unpacks , and stores tires and their automative parts and ships products to detinations.

PROPOSED SYSTEM

The proposed system is defined to meets all the disadvantages of the existing system. It is necessary to have a system that is more user friendly and user attractive for business growth; on such consideration the system is proposed. In our proposed system there is admin who can view and add all products and control monthly reports.Users of this proposed system are admin, warehouse manager and sales manager. The aim of proposed system is to develop a system of improved facilities. The system provides proper security and reduces the manual work. Online shopping advancements have been so drastic that it has evolved to be a part of our life. Today customers and small shopes are confused they have face high risk during the pandemic year .

They can't collect bundle of products from warehouses by the transformation problem and lockdown. So the system provide online ordering and trucking to import products by the distributors to the shops.

ADVANTAGES OF PROPOSED SYSTEM

The system is very simple in design and to implement. The system requires very low system resources and the system will work in almost all configurations. It has got following features:

Freedom of Consumers : They can access their order via online. Warehouse provides distributors for import and export products easily . Suppliers can supply the accessories from manufacturing factories. All transactions are done by the system.bills are generated and monthly reports are being stored.

Better security : For data to remain secure measures must be taken to prevent unauthorized access. Security means that data are protected from various forms of destruction. The system security problem can be divided into four related issues: security, integrity, privacy and confidentiality. Username and password requirement to sign in ensures security. It will also provide data security as we are using the secured databases for maintaining the documents.

Flexibility : With such freedom over clients and workload, freelancers have the flexibility that most people dream of. If you want to work full-time most of the year and only part-time during the

summer, you have the flexibility and control to make that decision. The proposed system eliminates the manual errors while entering the details of the users during the registration.

Better service : The product will avoid the burden of hard copy storage. We can also conserve the time and human resources for doing the same task. The data can be maintained for longer period with no loss of data.

Existing System

Existing system is not a fully automated system. users can register and they can place their order. The site keep tracking the in and out transaction of single and multiple store and provide bill details. The proposed system rectify the drawbacks of the present system.It is necessary to modify the existing system in order to include additional information and make the system efficient, flexible and secure. Using the new system users can add and buy products by viewing the profile details, achievements etc.

Drawbacks of Existing System:

- Human effort is needed
- One way and face-to-face marketing.
- Customers do not get a chance of know the person who done these works.
- Chance of unequal composition
- Isolation

Modules

1. Admin Module

Admin must have a login into this system. He has the overall control of the system. Admin can Authorize the warehouse manager, sales manager and stock manager. Admin can approve/disapprove registered distributers.Then the administrator can view transaction details and monthly report history and notification management. Admin can add warehouse and sales manager also admin can view all the registered users, also update products . can able to approve or reject the orders placed.

2.Warehouse Manager Module.

Warehouse manger .can view products in the warehouse and also check the stocks. Restocking of products also be performed by warehouse manager. They can check the stocks upon the order placed and they can notify the admin if their any low stock.

3. Stock Manager

They has responsibility for managing products(add,update,view,delete)**.**

4.Sales Manager module

Sales manager can access the order details placed and also check the stock and transaction details . if they are correct they connect the distributors to proceed the Trucking and shipping. They can connect with the suppliers that they are restocking the products to warehouse .

5. Distributers

They can check the product and place their order . Registration are always provided. They can login after admin approval. Many tireshops are customers they can collect bundle of product from the tirewarehouse and distributers can view their oders. Distributors collect and import products to the tireshops(customers)**.**

6. Customers Module

Customers can login after registration.They can check the product and place their order . They can communicate with distributers.Payment of placed order**.**

RESEARCH PAPER CONCEPT

Data can be secured using Fernet System .

Cryptography is the practice of securing useful information while transmitting from one computer to another or storing data on a computer. Cryptography deals with the encryption of plaintext into ciphertext and decryption of ciphertext into plaintext. Python supports a cryptography package that helps us encrypt and decrypt data. The fernet module of the cryptography package has inbuilt functions for the generation of the key, encryption of plaintext into ciphertext, and decryption of ciphertext into plaintext using the encrypt and decrypt methods respectively. The fernet module guarantees that data encrypted using it cannot be further manipulated or read without the key.

Methods Used:

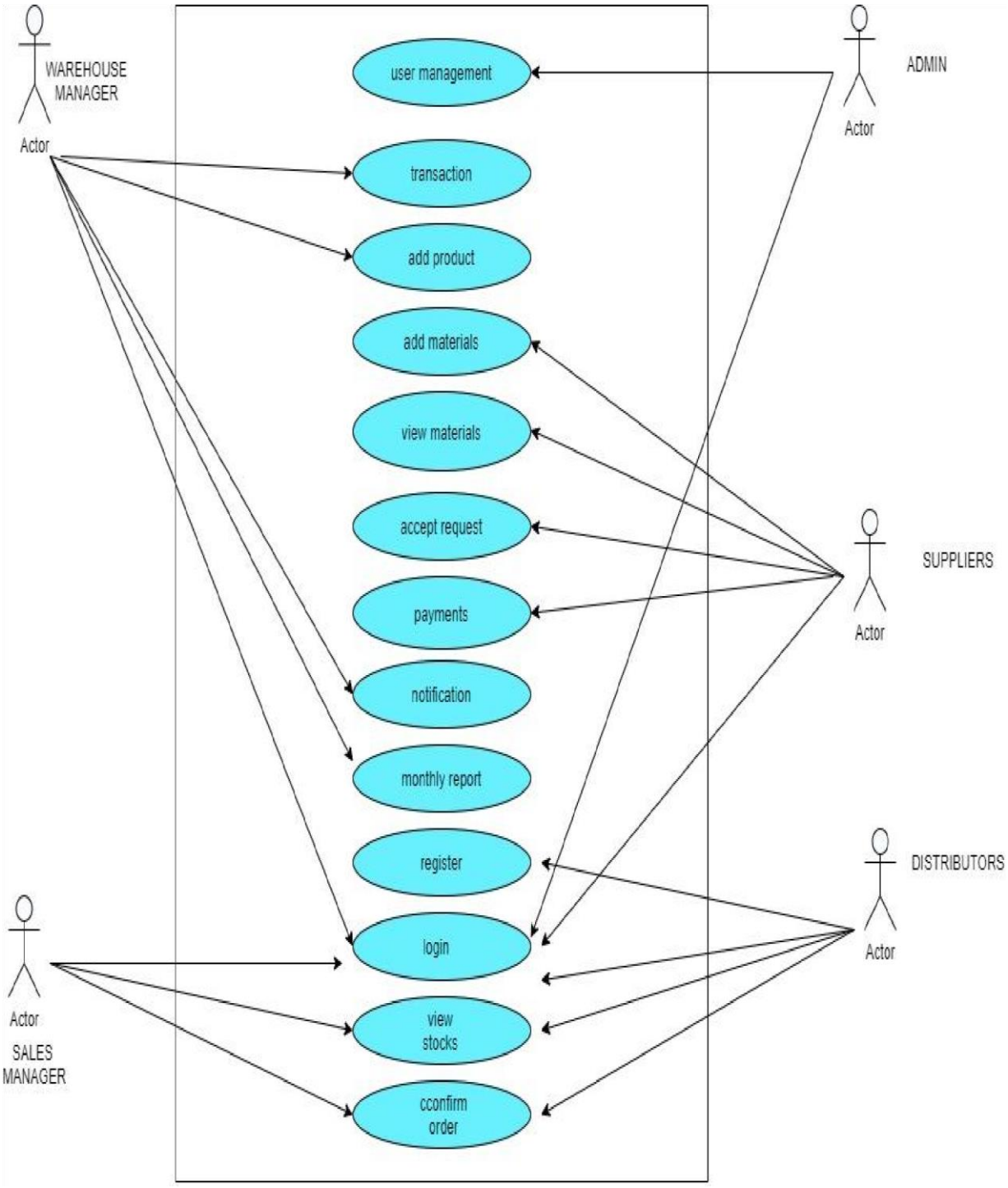
To Secure Tyrewarehouse Management

- generate_key() : This method generates a new fernet key. The key must be kept safe as it is the most important component to decrypt the ciphertext. If the key is lost then the user can no longer decrypt the message. Also if an intruder or hacker gets access to the key they can not only read the data but also forge the data.

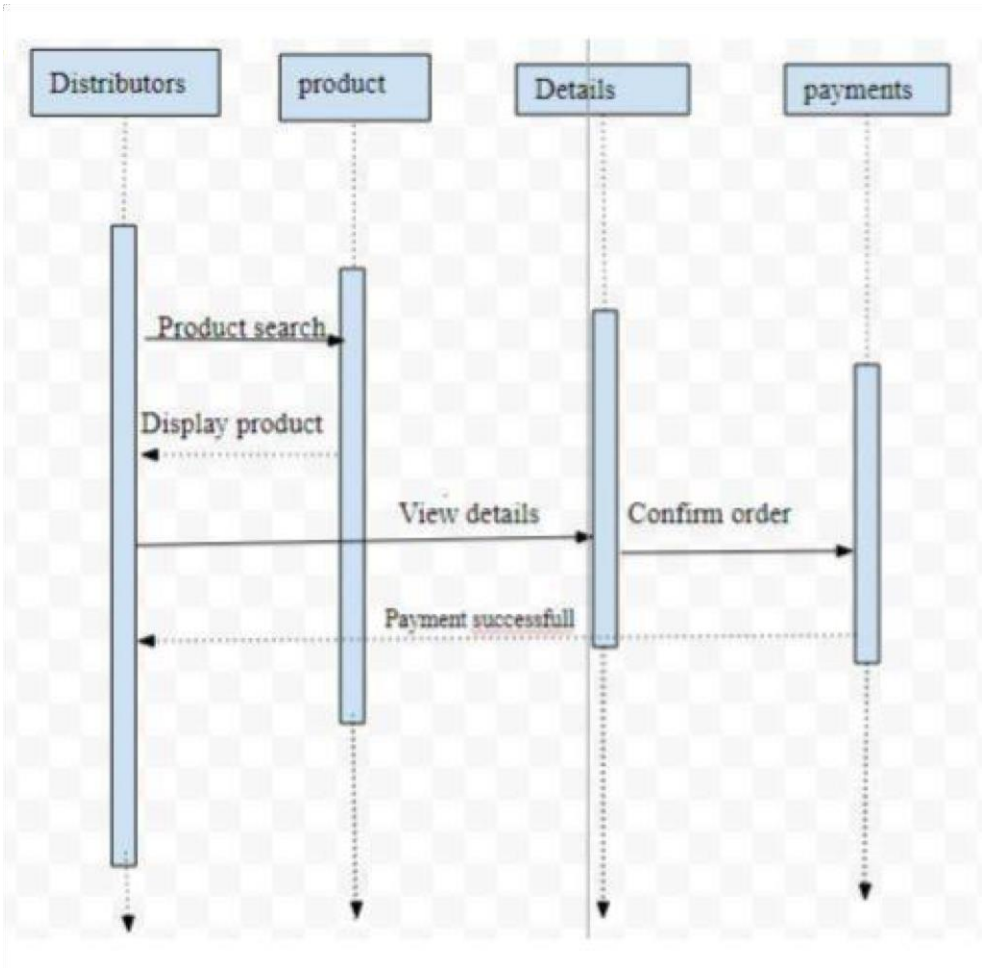
- encrypt(data) : It encrypts data passed as a parameter to the method. The outcome of this encryption is known as a “Fernet token” which is basically the ciphertext. The encrypted token also contains the current timestamp when it was generated in plaintext. The encrypt method throws an exception if the data is not in bytes.

UML DIAGRAMS

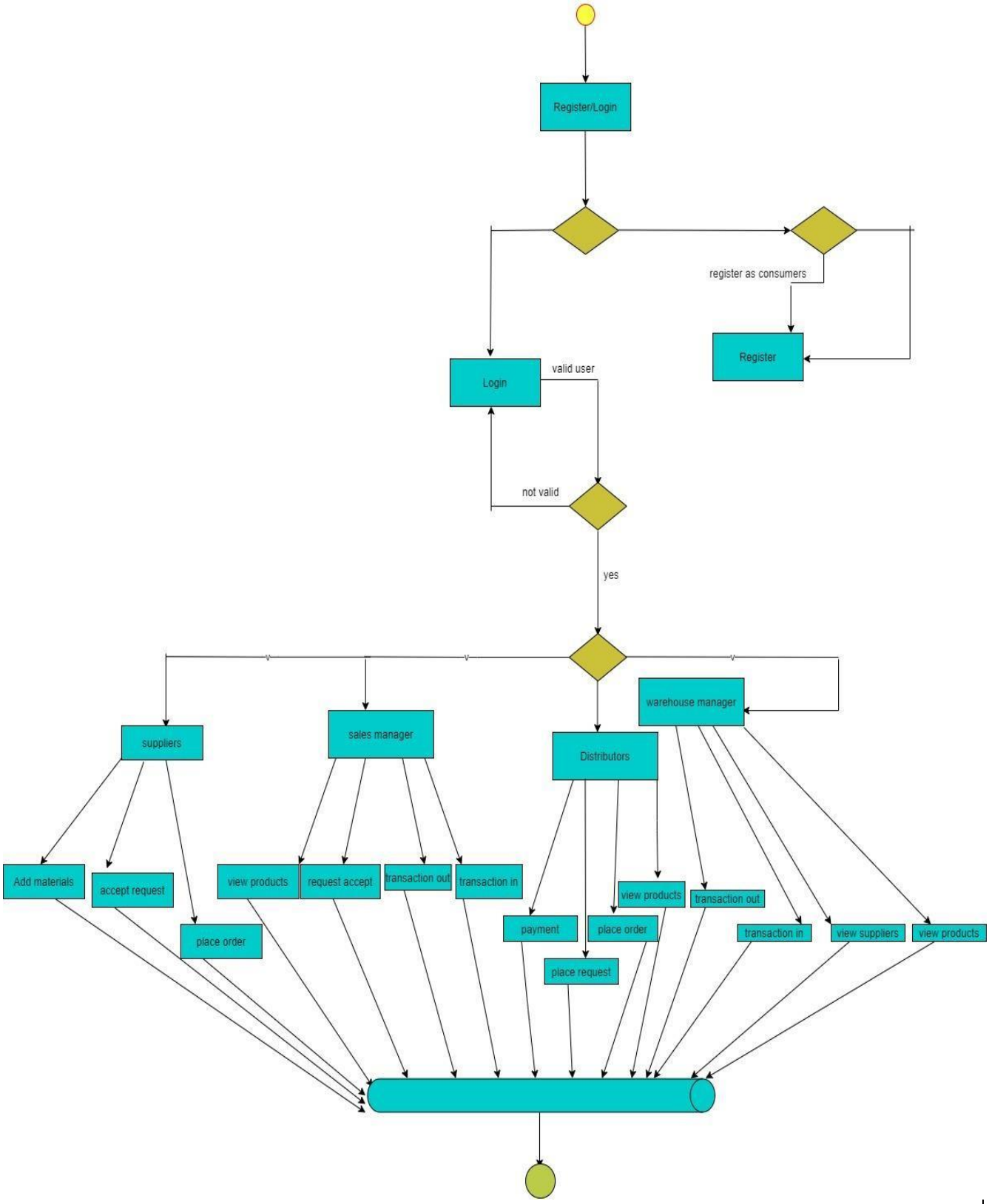
USE CASE DIAGRAM



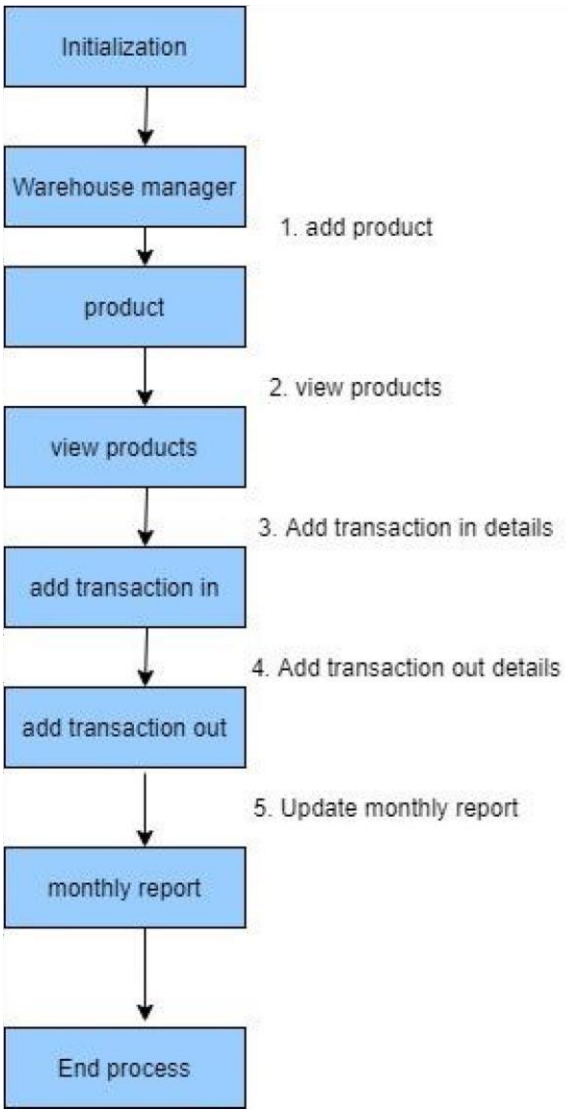
SEQUENCE DIAGRAM



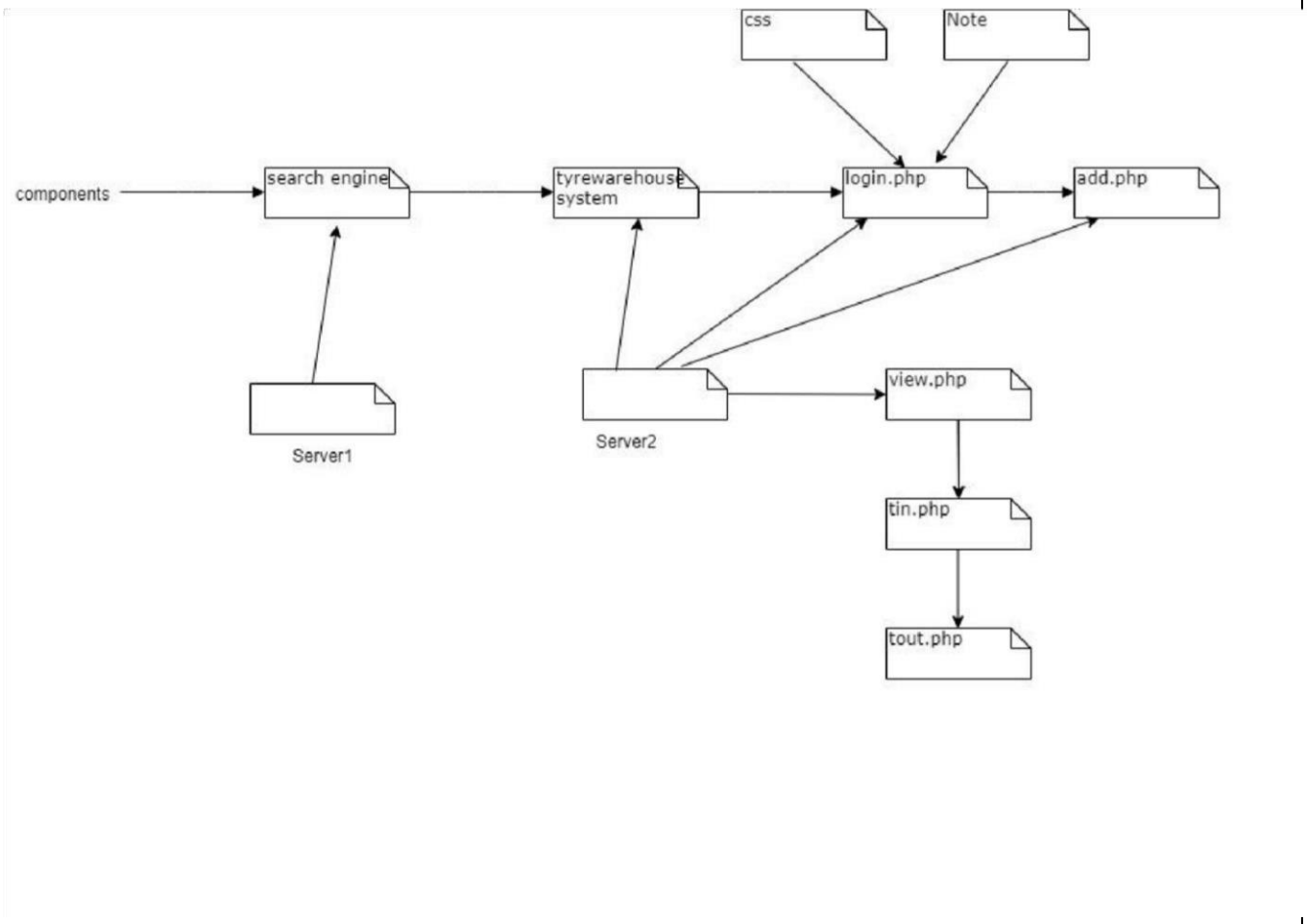
ACTIVITY DIAGRAM


Register/Login
register as consumers
Register
Login
valid user
not valid
yes
warehouse manager
suppliers
sales manager
Distributors
Add materials
accept request
place order
view products
request accept
transaction out
transaction in
payment
place order
place request
view products
transaction out
transaction in
view suppliers
view products

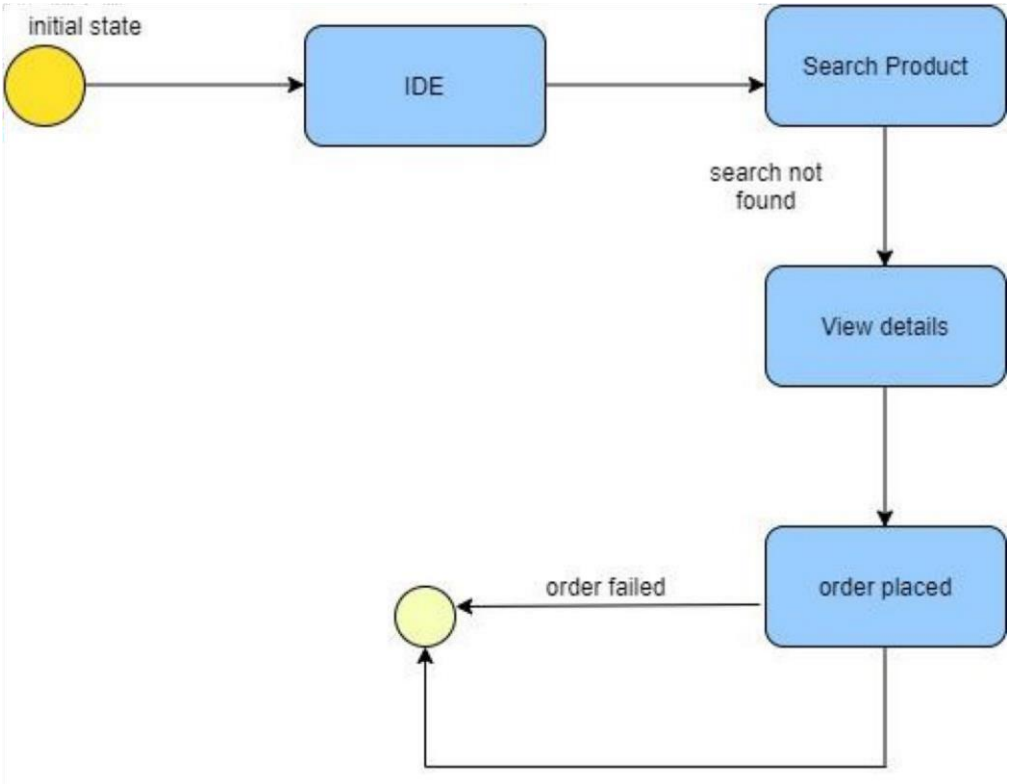
COLLABORATION DIAGRAM



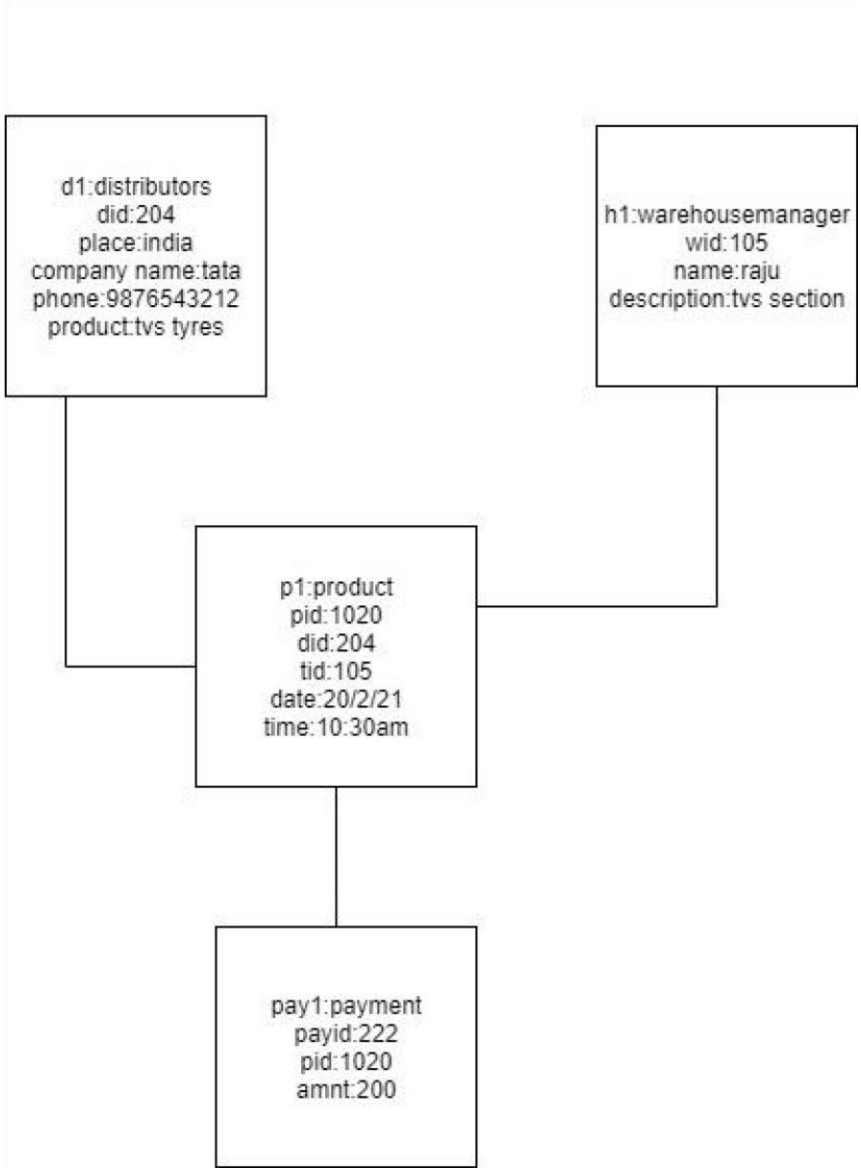
STATE CHART DIAGRAM



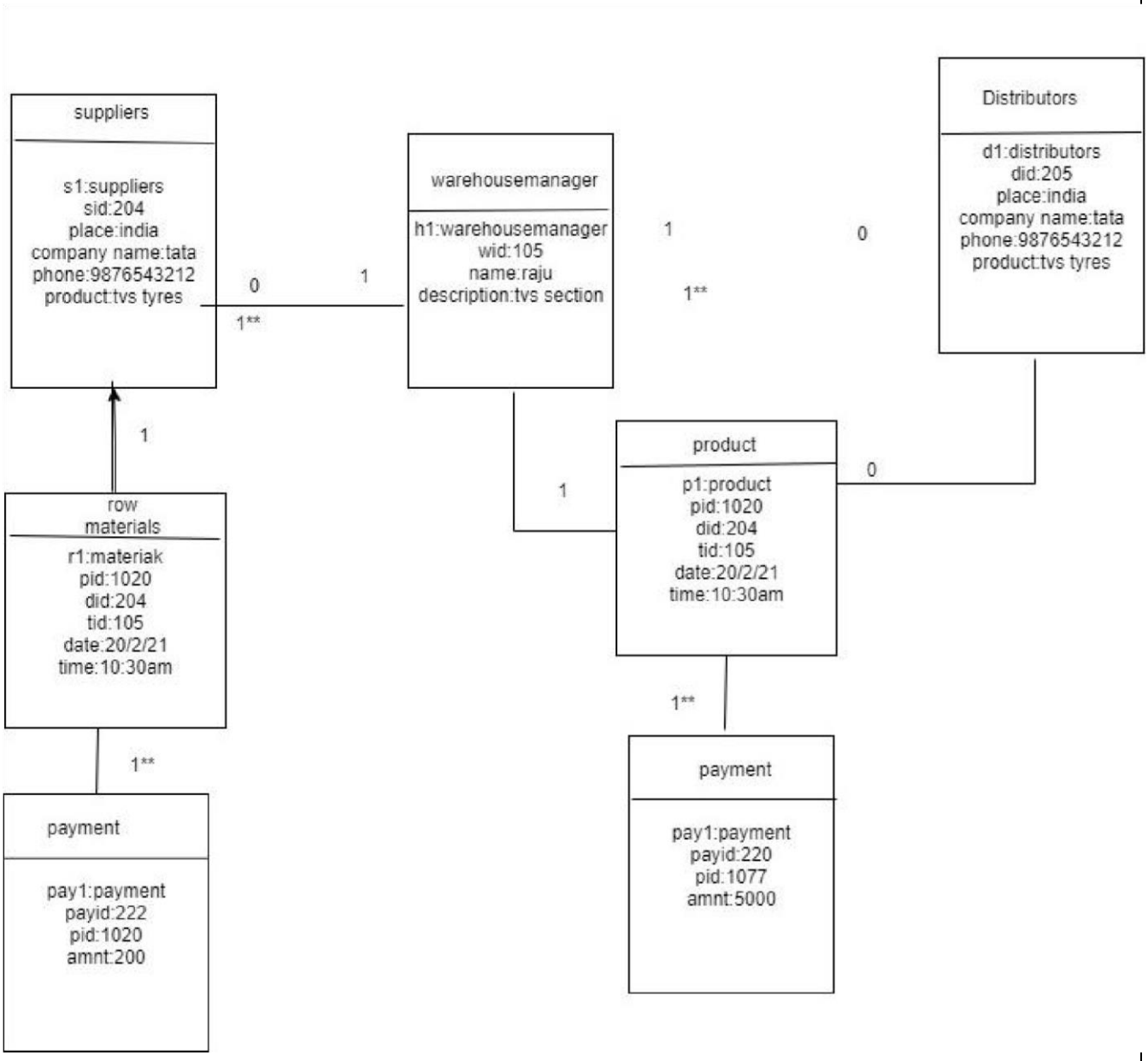
COMPONENT DIAGRAM



Object Diagram

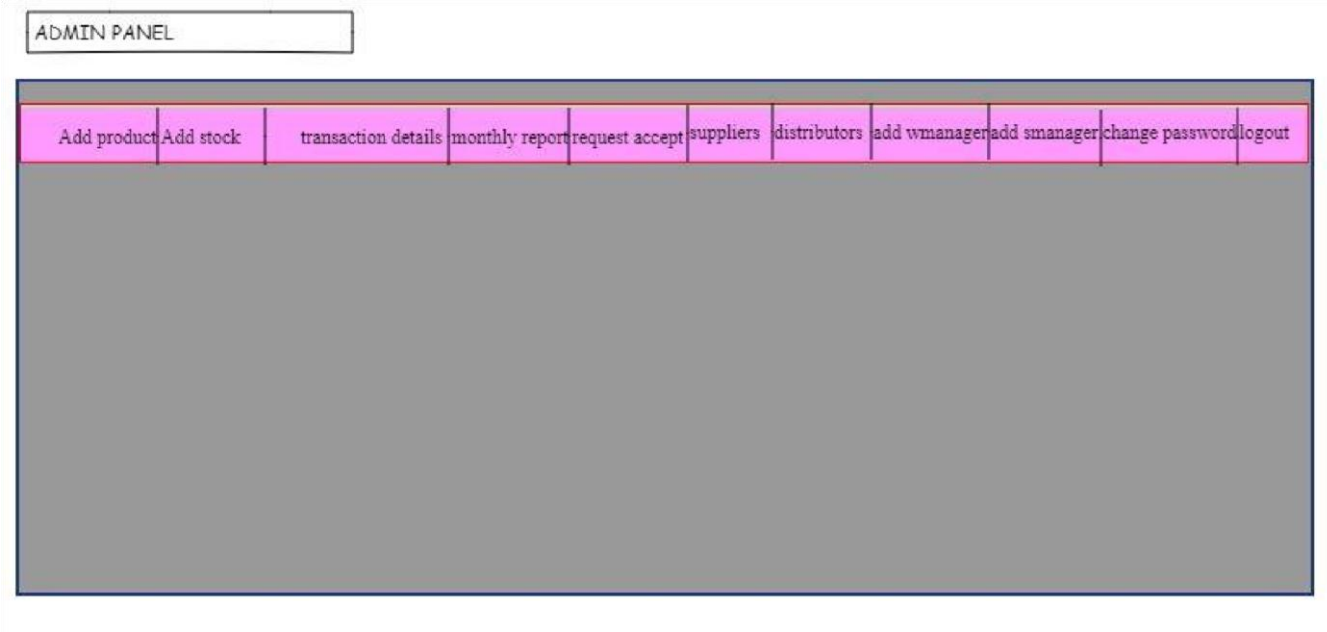


Class diagram



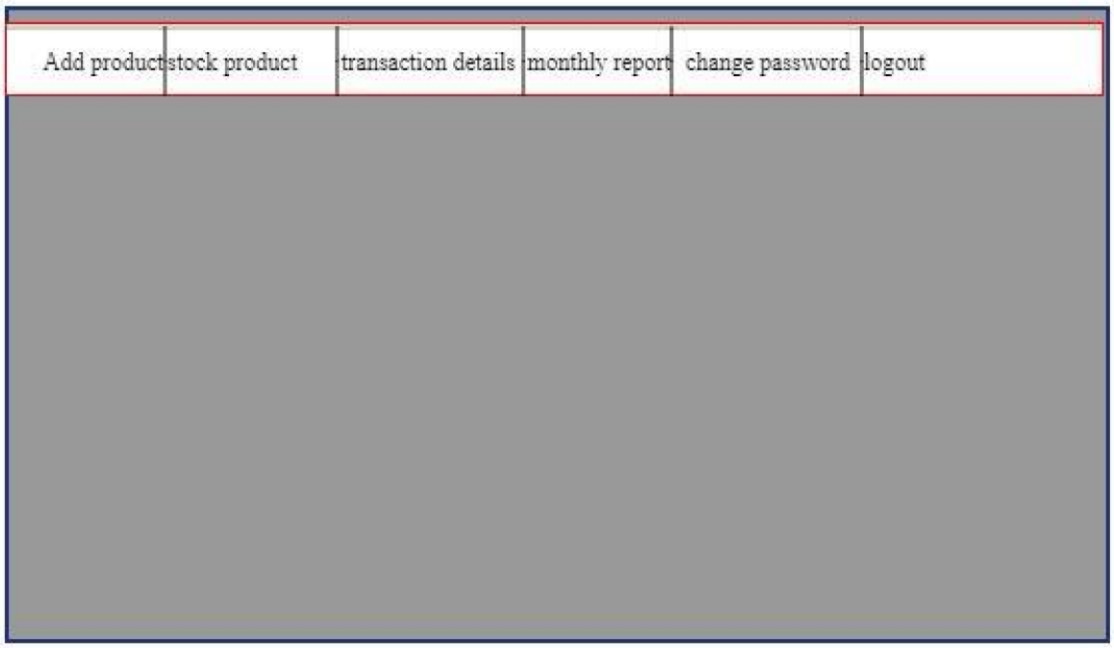
FORMS


REGISTRATION
name
username
password
vehicle brand
tyre brand
tyre model
vehicle type
SUBMIT
LOGIN
Username
Password
LOGIN

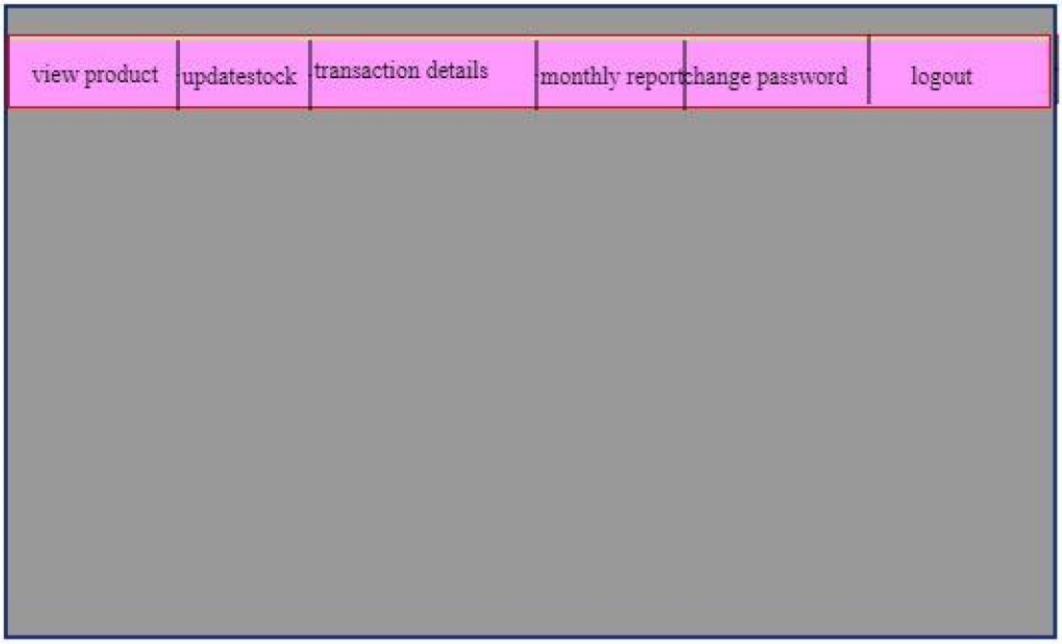

ADMIN PANEL
Add product
Add stock
transaction details
monthly report
request accept
suppliers
distributors
add wmanager
add smanager
change password
logout


ADD PRODUCT
product id
tyre brand
tyre model
material
rim diameter
maximum load
weight
cost
SUBMIT

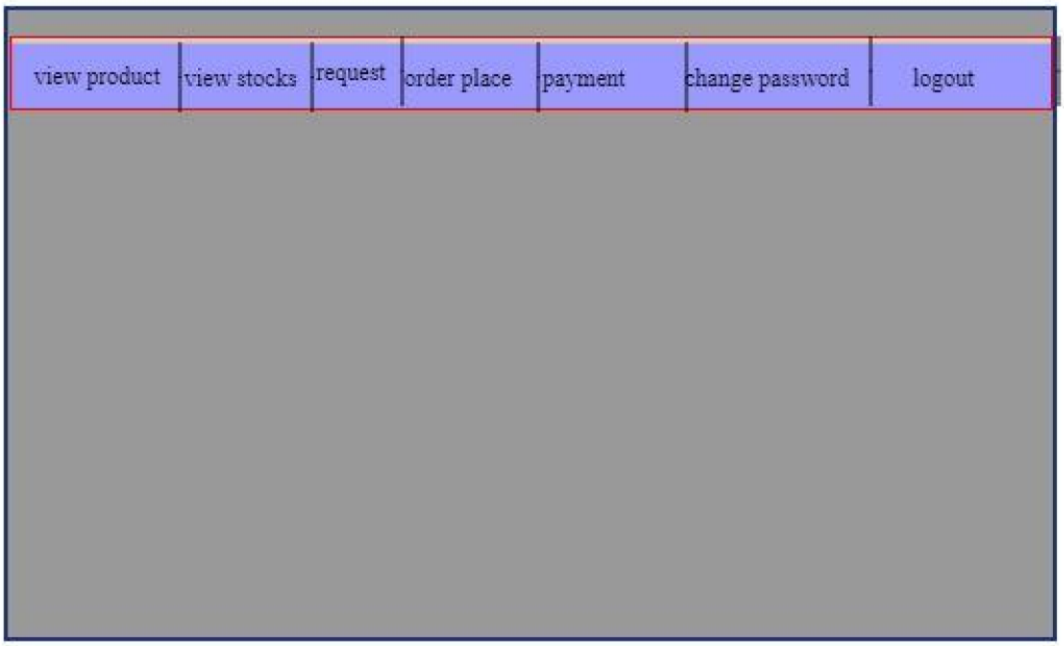
WAREHOUSE MANAGER PANEL



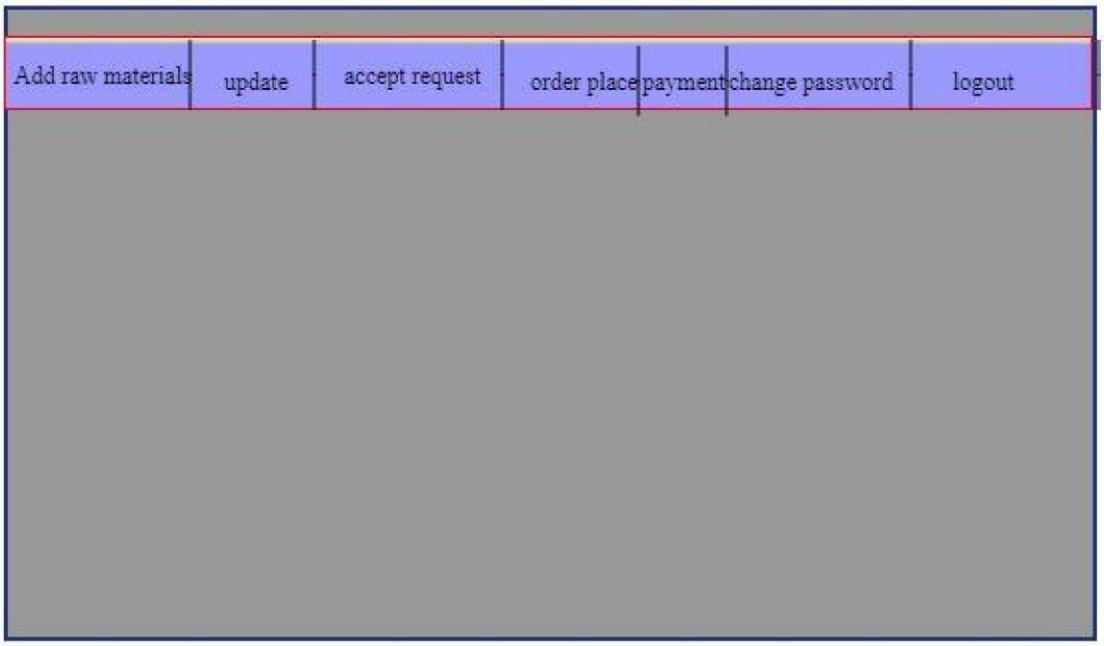
SALESMANAGER PANEL



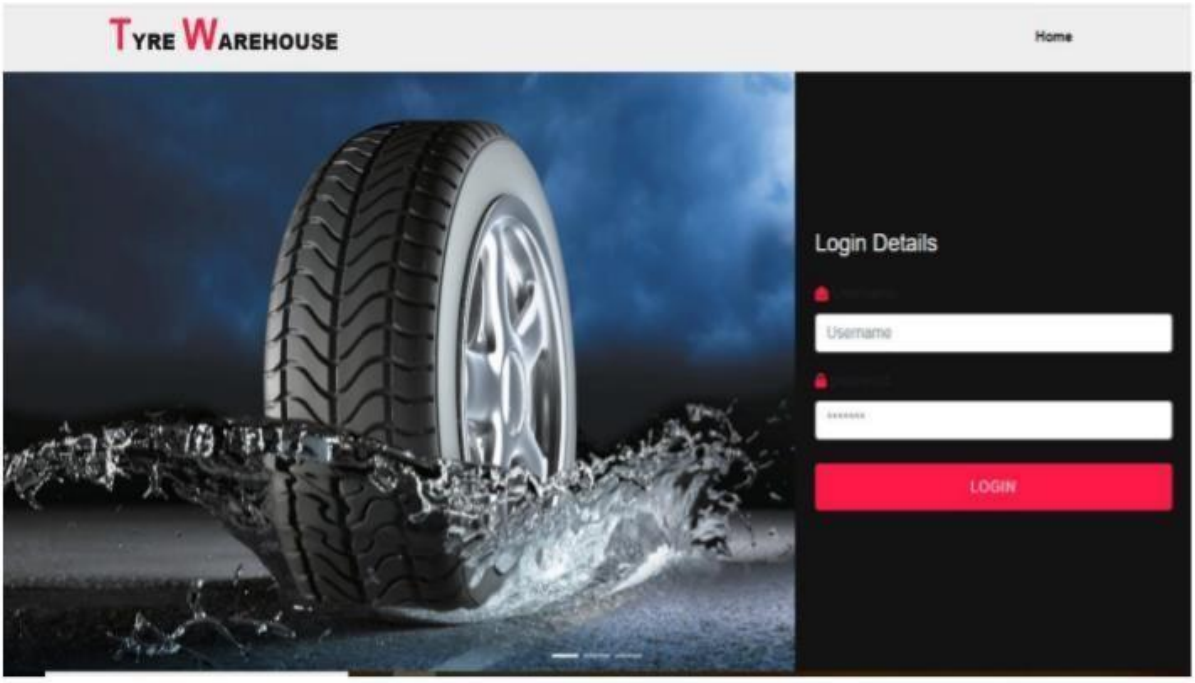
DISTRIBUTORS PANEL



SUPPLIERS PANEL



OUTPUT DESIGN



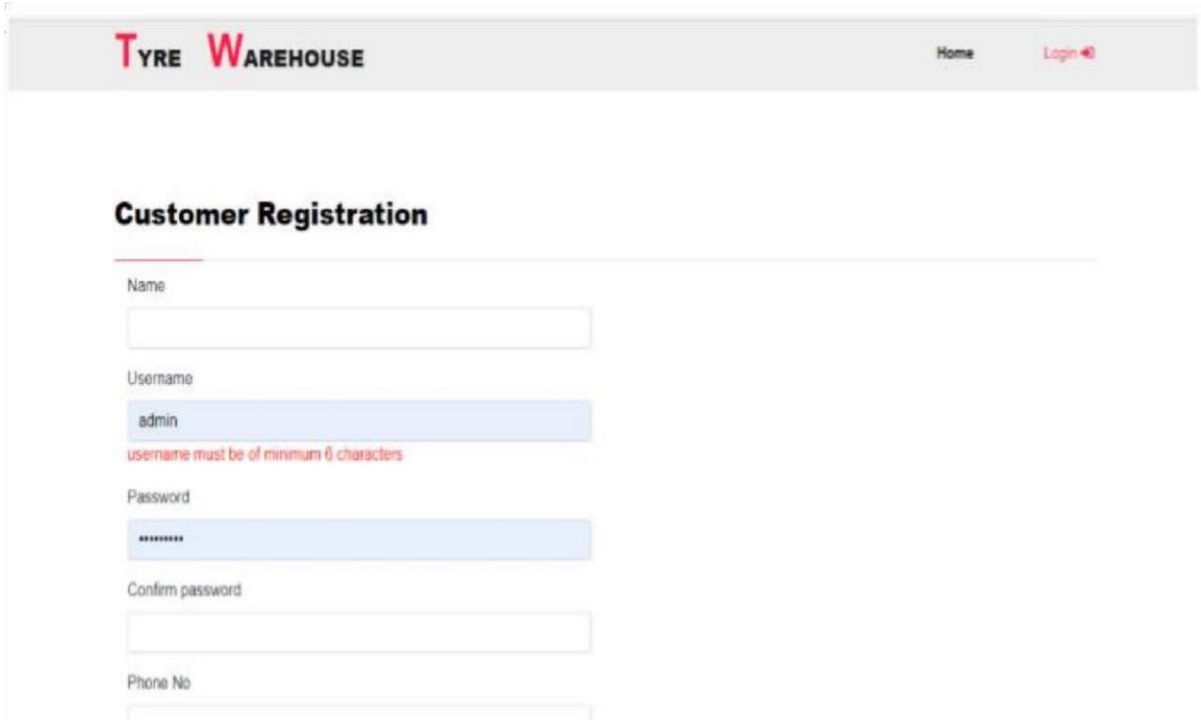

TYRE WAREHOUSE
Home
Login
Customer Registration
Name
Username
admin
username must be of minimum 6 characters
Password
Confirm password
Phone No

TABLE DESIGN

Table No **01**

Table Name : users_tbl

Primary Key :user_type_id

Table Description: To store user type information

Field Name	Type	Size	Description
Type_id	Int	5	Primary key of user_type table
type_name	Varchar	20	To store user types

Table No **03**

Table Name :customer_reg_tbl

Primary Key : cust_id

Foreign Key :vbrand

Table Description: To store customer information

Field Name	Type	Size	Description
Cust_id	Int	10	Primary key of reg_ table
Name	Varchar	30	Name of customer
Address	Varchar	30	Address
Phone no	Int	12	Phone number
Vehicle brand	Varchar	50	Foregin key of product tbl
Vehicle model	Varchar	50	Foregin key of product tbl
Tyre model	Varchar	50	Foregin key of product tbl
Tyre brand	Varchar	50	Foregin key of product tbl

Table No **04**

Table Name :product_tbl

Primary Key :tid

Table Description: To store product details

Field Name	Type	Size	Description
tid	Int	11	Primary key of product_tbl
tbrand	Varchar	50	Tyre brand
tmodel	Varchar	50	Tyre model
sindex	int	11	Speed index
material	Varchar	50	Tyre material
rimdia	int	11	Diameter of rim
maxload	Varchar	50	Maximum load
weight	Varchar	50	Tyre weight
vbrand	varchar	50	Vehicle brand
vmodel	varchar	50	Vehicle model
vtype	varchar	50	Vehicle type
stock	varchar	50	Product stock

Table Name : tout_tbl

Primary Key : trid

Foreign Key : cuname

Table Description: To store transaction out information

Field Name	Type	Size	Description
trid	int	11	Primary key of transactionout_tbl
cuname	varchar	30	Foriegn key of reg_tbl
type	varchar	30	Type of transaction
pname	varchar	30	product name
pstock	varchar	30	product name
count	int	11	No of products
amount	int	11	Amount of product
Bill no	int	11	Transaction bill no
tax	int	11	tax
paid	int	11	Already paid
balance	int	11	Balance paid

Table Name : tin_tbl

Primary Key : trsid

Foreign Key : suname

Table Description: To store transaction in information

Field Name	Type	Size	Description
trsid	int	11	Primary key of transactionin_tbl
suname	varchar	30	Foriegn key of supplier_tbl
type	varchar	30	Type of transaction
pname	varchar	30	product name
pstock	varchar	30	product name
count	int	11	No of products
amount	int	11	Amount of product
Bill no	int	11	Transaction bill no
tax	int	11	tax
paid	int	11	Already paid
balance	int	11	Balance paid

Table :distributors table

Field Name	Type	Size	Description
disid	int	11	Distributors id
Typeid	Int	11	User type
Pid	int	5	Product id (3nf normalization)
count	Int	11	No of products

Table: Suppliers

Field Name	Type	Size	Description
Sid	Int	11	Supplier id
Typeid	Int	11	User typeid
Mname	Varchar	50	Material name
Mtype	Varchar	30	Material type
Mamount	Varchar	30	Material amount
Mcount	Varchar	50	Count available
mstock	Varchar	50	Stock of material
sname	Varchar	50	Supplier name