

INTRODUCTION TO SYSTEM

The project on **Automobile Management System** involves various tasks such as keeping records of vendors and customers. This software system is made for the automobile manufacturer (Eg:Suzuki,Honda,etc). The system is developed in such a way that the manufacturer can keep an eye on both purchases and sales. The system can be categorised into three sections as follows:

- 1) PURCHASES SECTION :- The vendor-side processes involve purchasing raw material and spare parts. This step involves generating indent, enquiry, quotation and finally placing a purchase order. The supplier information is also stored in this phase.
- 2) CORE SECTION :- This section involves core within-the-company processes. It includes linking of purchase-side and sales-side tasks. This phase contains maintaining stock details.
- 3) SALES SECTION :- The customer-side processes involves selling the finished product in bulk to the stockist. Finished goods are sent to the automobile showroom. The customer details are maintained and billing history is saved. This system can keep the record of the stock, place orders and generate bills. It also does interlinked processes. These processes are as follows:
 - 1) INDENT :- From Production Department to Purchase Department(Within the manufacturing company).
 - 2) ENQUIRY :- From Purchase Department to Vendors.
 - 3) QUOTATION :- From Vendors to Purchase Department.
 - 4) PURCHASE ORDER :- From Purchase Department to Vendor.
 - 5) DELIVERY CHALLAN :- Adds delivered goods to stock and keeps record of remaining quantity.

SCOPE OF THE SYSTEM

The system will be for Automobile management.

This system will be designed to minimise the manual work in maintaining records of car sold to dealer and record of spare parts purchased from vendor.

It aims to maximise the productivity and provide improved managed System. This System will be easy to understand and use.

More specifically, this system is designed to allow an admin to manage the records of Customers ,Vendors , Inventory of the company .The main objective for taking this work is to simplify the entire system.

PROPOSED SYSTEM

The proposed system provides user friendly interface and also provides powerful and efficient database management system. The aim of proposed system is to develop a system of improved facilities. The existing system work is done manually thus hampering its accuracy and effectiveness. The proposed system can overcome the limitations of the existing system.

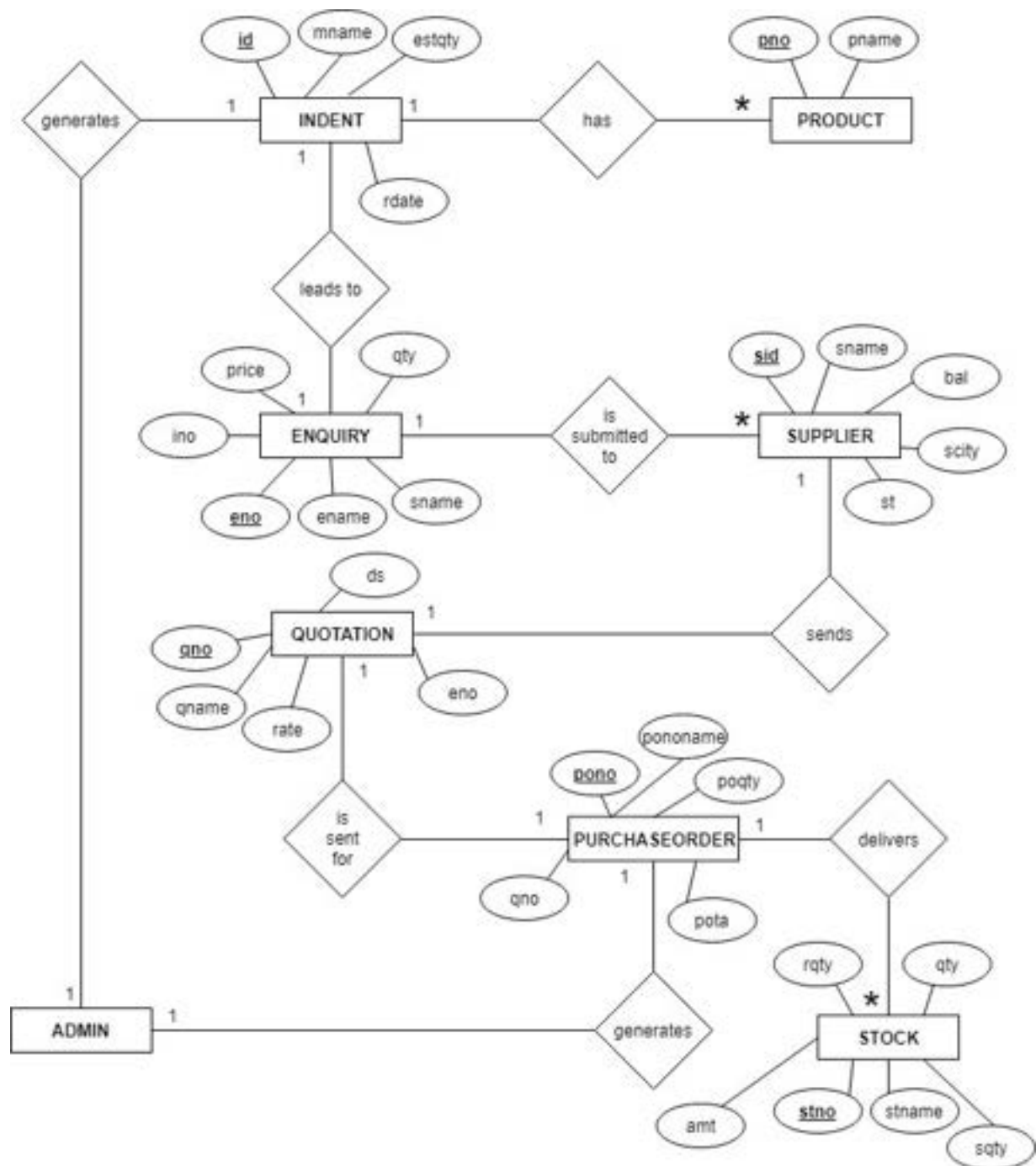
The system provides proper security and reduces the manual work. The existing system has several disadvantages and many more difficulties to work. The proposed system tries to eliminate or reduce these difficulties up to some extent.

The proposed system will help the user to reduce the workload and mental conflict. Through this system it is possible to print various reports for the organisation.

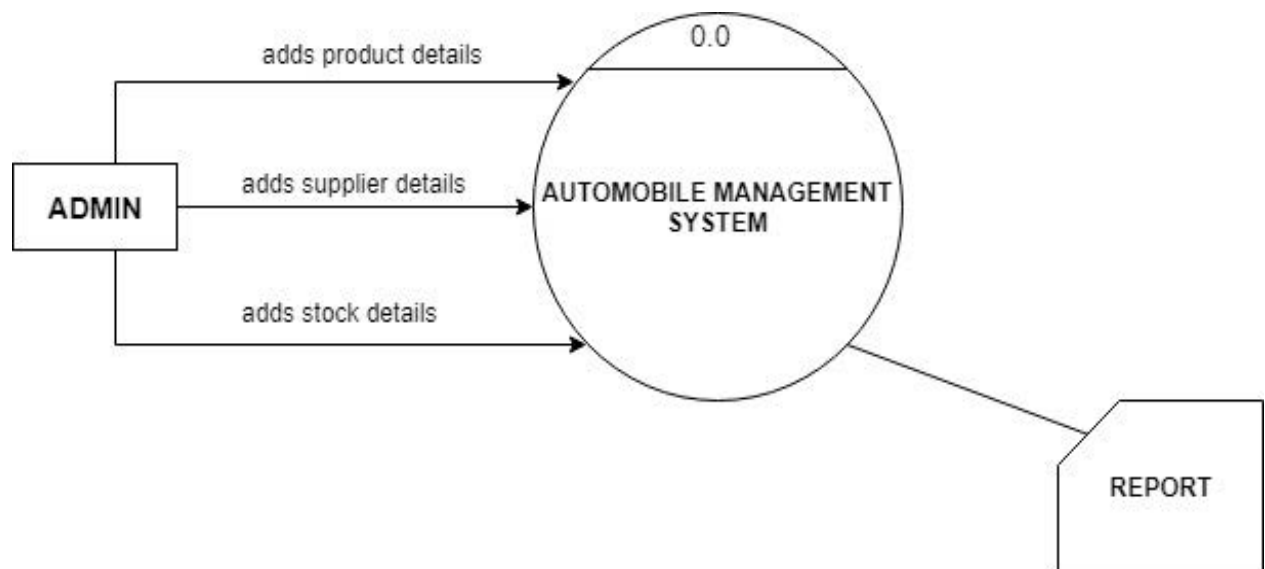
The aim of the proposed system is to develop a system of improved facilities.

- Security of data.
- Ensure data accuracy.
- Proposed control of the Higher Authority.
- Minimum time needed for the various processing.
- Greater efficiency.
- Better services.
- User friendliness and interactive.
- Minimum time required.

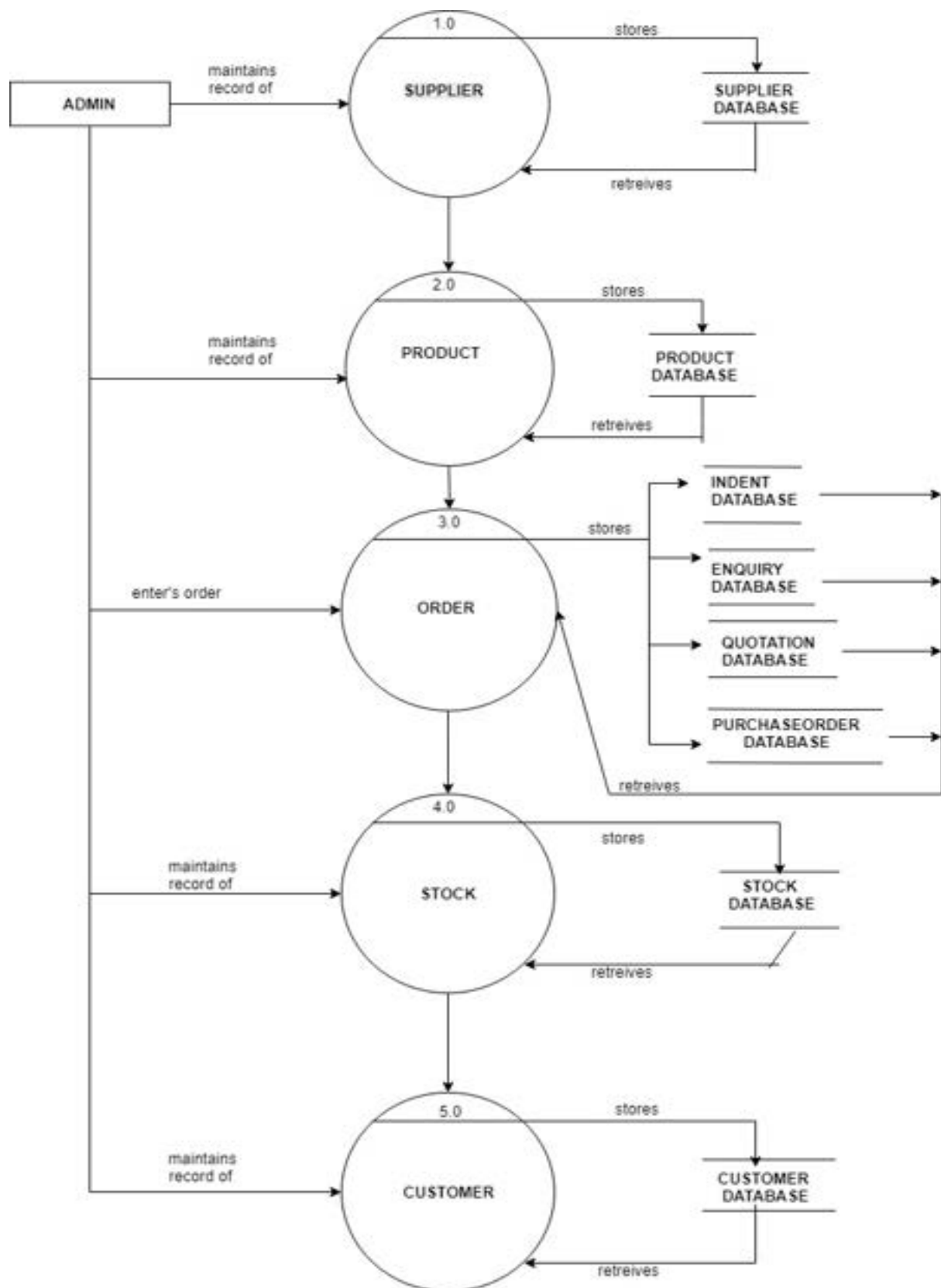
ENTITY RELATIONSHIP DIAGRAM



CONTEXT LEVEL DIAGRAM



DATA FLOW DIAGRAM



DATA DICTIONARY

TABLE: PRODUCT

| Field | Key | Data Type | Field Description |
|-------|-------------|------------|-------------------|
| pno | Primary Key | AutoNumber | Product Number |
| pname | - | Text | Product Name |
| pbool | - | Number | Boolean |

TABLE: INDENT

| Field | Key | Data Type | Field Description |
|--------|-------------|------------|--------------------|
| id | Primary Key | AutoNumber | Indent Id |
| Ino | - | Text | Indent Number |
| pno | Foreign Key | Text | Product Number |
| estqty | - | Text | Estimated Quantity |
| mname | - | Text | Material Name |
| rdate | - | Text | Required Date |
| doi | - | Text | Date of Indent |

TABLE: ENQUIRY

| Field | Key | Data Type | Field Description |
|---------|-------------|------------|--------------------|
| eno | Primary Key | AutoNumber | Enquiry Number |
| ino | - | Text | Indent Number |
| pno | Foreign Key | Text | Product Number |
| ename | - | Text | Enquiry Name |
| sname | - | Text | Supplier Name |
| eqty | - | Text | Estimated Quantity |
| epprice | - | Text | Estimated Price |
| edate | - | Text | Estimated Date |
| doe | - | Text | Date of Enquiry |
| id | Foreign Key | Text | Indent id |

TABLE: QUOTATION

| Field | Key | Data Type | Field Description |
|-------|-------------|------------|--------------------|
| qno | Primary Key | AutoNumber | Quotation Number |
| qname | - | Text | Quotation Name |
| qqty | - | Text | Quotation Quantity |
| ds | - | Text | Delivery schedule |
| rate | - | Text | Rate |
| ta | - | Text | Total Amount |
| val | - | Text | Validity |
| sname | - | Text | Supplier Name |
| eno | Foreign Key | Text | Enquiry Number |

TABLE: PURCHASEORDER

| Field | Key | Data Type | Field Description |
|---------|-------------|------------|----------------------------------|
| pono | Primary Key | AutoNumber | Purchase Order No |
| poname | - | Text | Purchase Order Name |
| poqty | - | Text | Purchase Order Quantity |
| podr | - | Text | Purchase Order Delivery Schedule |
| poprice | - | Text | Purchase Order Price |
| gr | - | Text | GST Rate |
| pota | - | Text | Total Amount |
| qno | Foreign Key | Text | Quotation Number |
| sname | - | Text | Supplier Name |

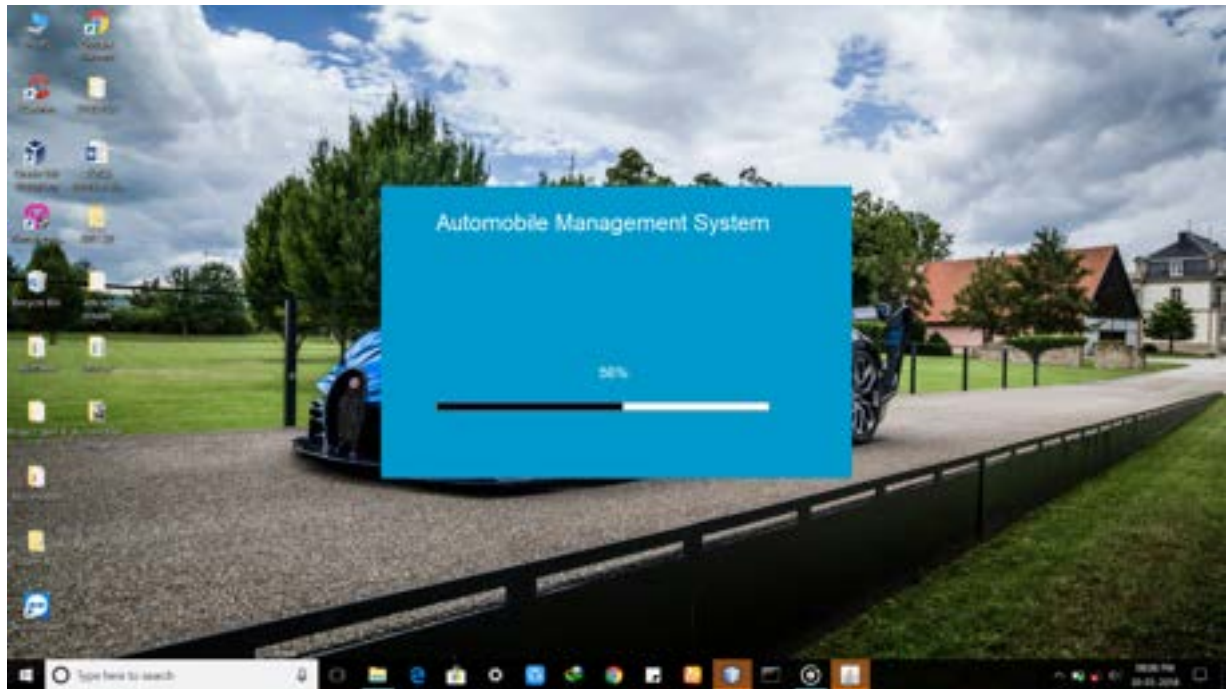
TABLE: STOCK

| Field | Key | Data Type | Field Description |
|---------|-------------|------------|-----------------------|
| stno | Primary Key | AutoNumber | Stock No |
| pono | Foreign Key | Text | Purchase Order Number |
| stname | - | Text | Stock Name |
| qty | - | Text | Quantity |
| sqty | - | Text | Shipped Quantity |
| rqty | - | Text | Remaining Quantity |
| amt | - | Text | Amount |
| sname | - | Text | Supplier Name |
| address | - | Text | Address |
| ddate | - | Text | Delivered Date |
| stbool | - | Number | Boolean |

TABLE: SUPPLIER

| Field | Key | Data Type | Field Description |
|--------|-------------|------------|-------------------|
| sid | Primary Key | AutoNumber | Supplier ID |
| sname | - | Text | Supplier Name |
| scity | - | Text | Supplier City |
| spin | - | Text | Supplier Pin Code |
| sph | - | Text | Supplier Phone No |
| st | - | Text | Status |
| bal | - | Text | Balance |
| subool | - | Text | Boolean |

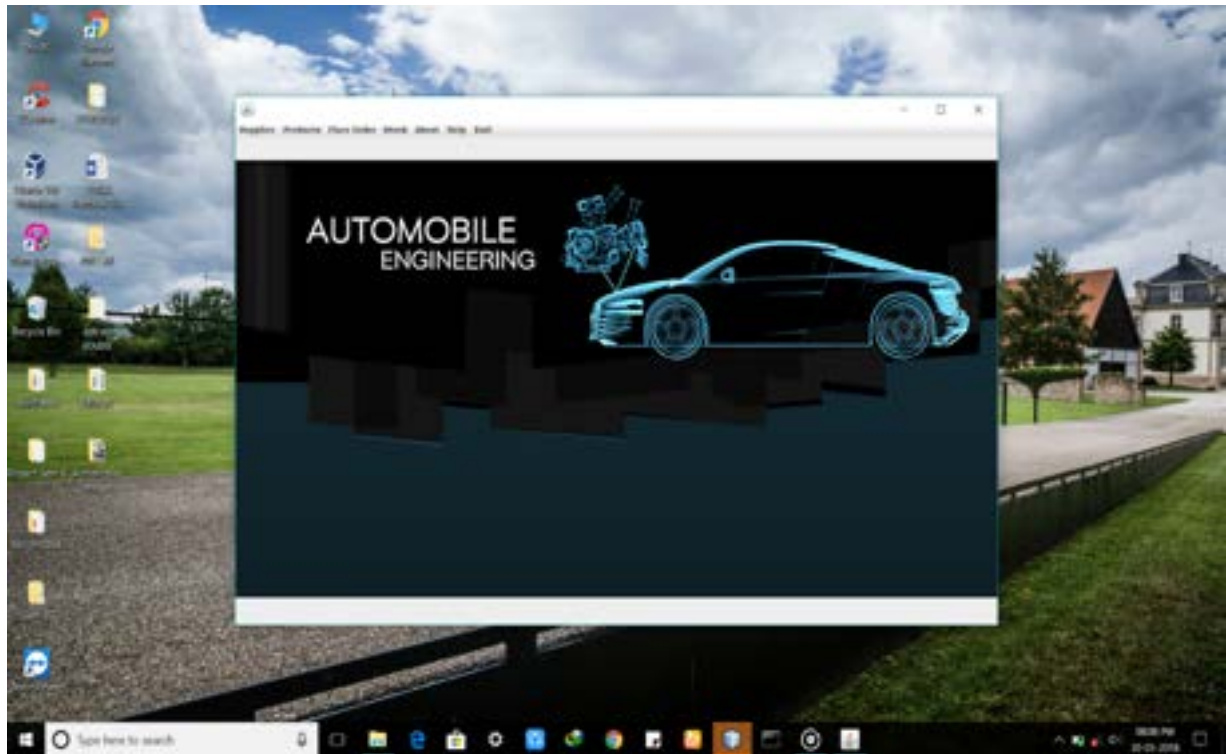
SPLASH SCREEN



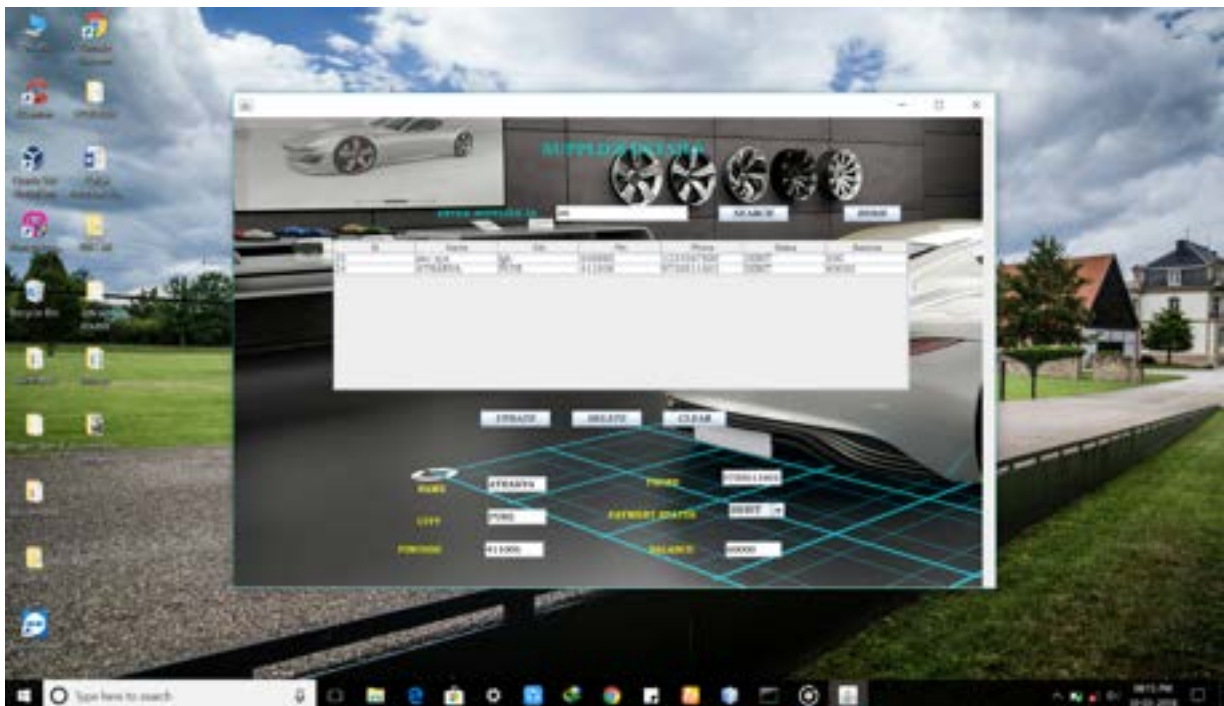
LOGIN FORM



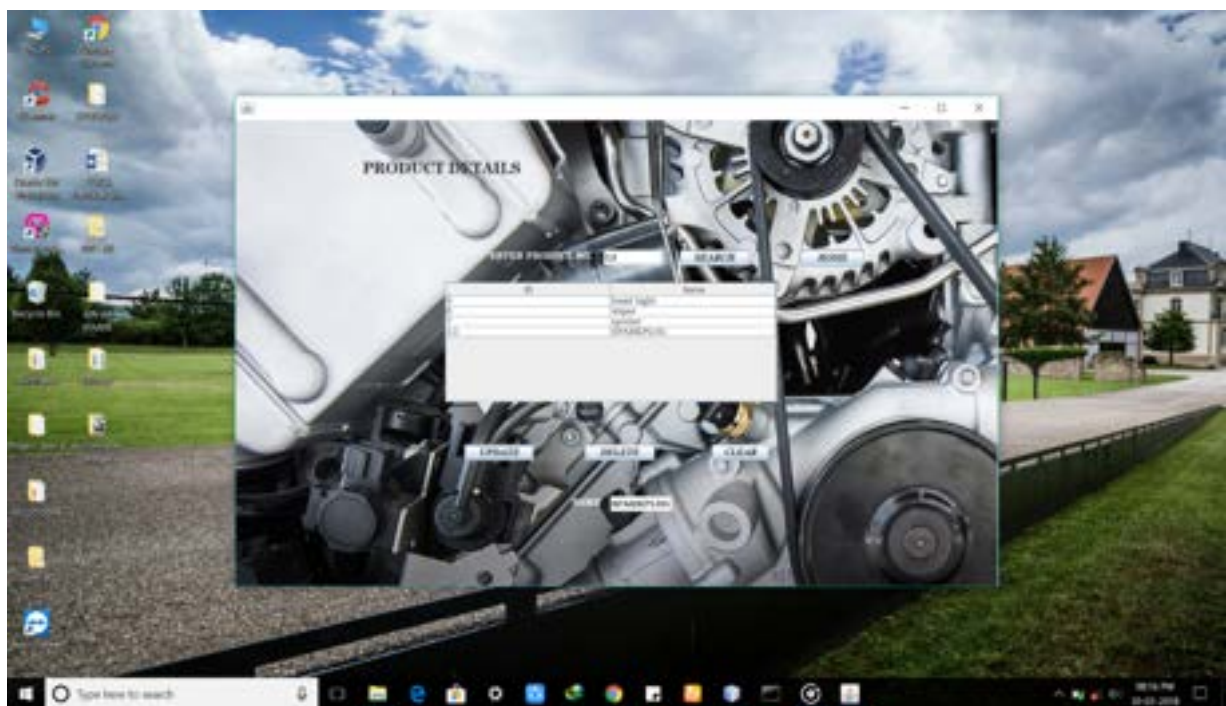
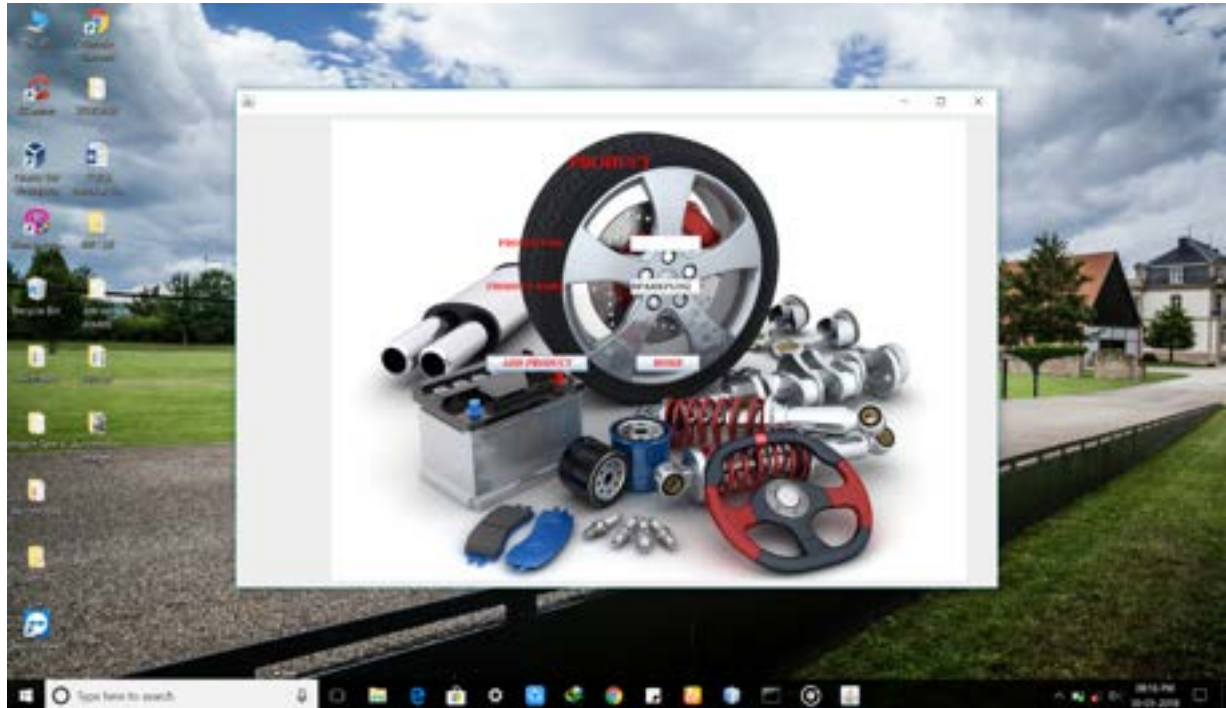
HOME SCREEN



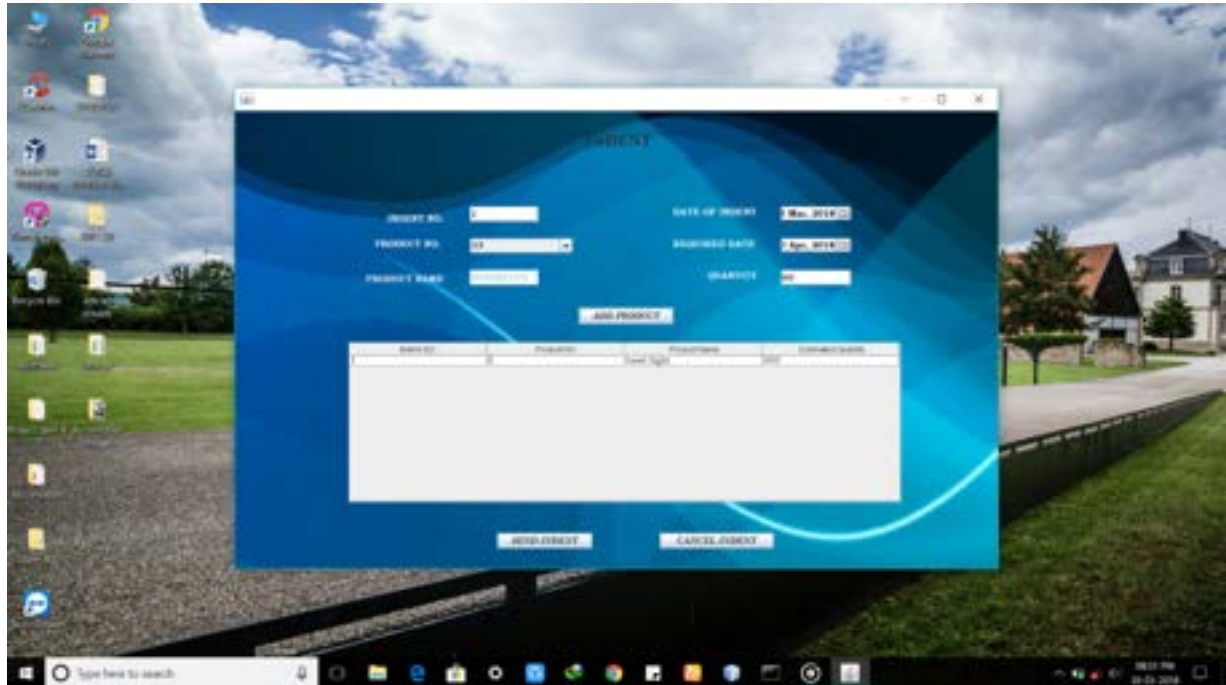
SUPPLIER ADDITION & DETAILS



PRODUCT ADDITION & DETAILS



INDENT



ENQUIRY

The screenshot shows a Windows 10 desktop with a landscape background. A web browser window is open, displaying a web application titled 'ENQUIRY'. The application has a blue header and a white body. The main form contains the following fields:

| AGENT NAME | AGENT ID | PROPERTY NAME | QUANTITY | PROPERTY NO. | AGENT NO. | EXPECTED PRICE | EXPECTED DATE | DATE OF ENQUIRY | SUPPLIER ID |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Below the form is a 'SEARCH' button. Below the button is a table with the following columns: 'AGENT NAME', 'AGENT ID', 'PROPERTY NAME', 'QUANTITY', 'PROPERTY NO.', and 'EXPECTED PRICE'. The table is currently empty. At the bottom of the form, there are three buttons: 'ADD ENQUIRY', 'EDIT ENQUIRY', and 'DELETE'.

QUOTATION

QUOTATION

Job No: Customer:

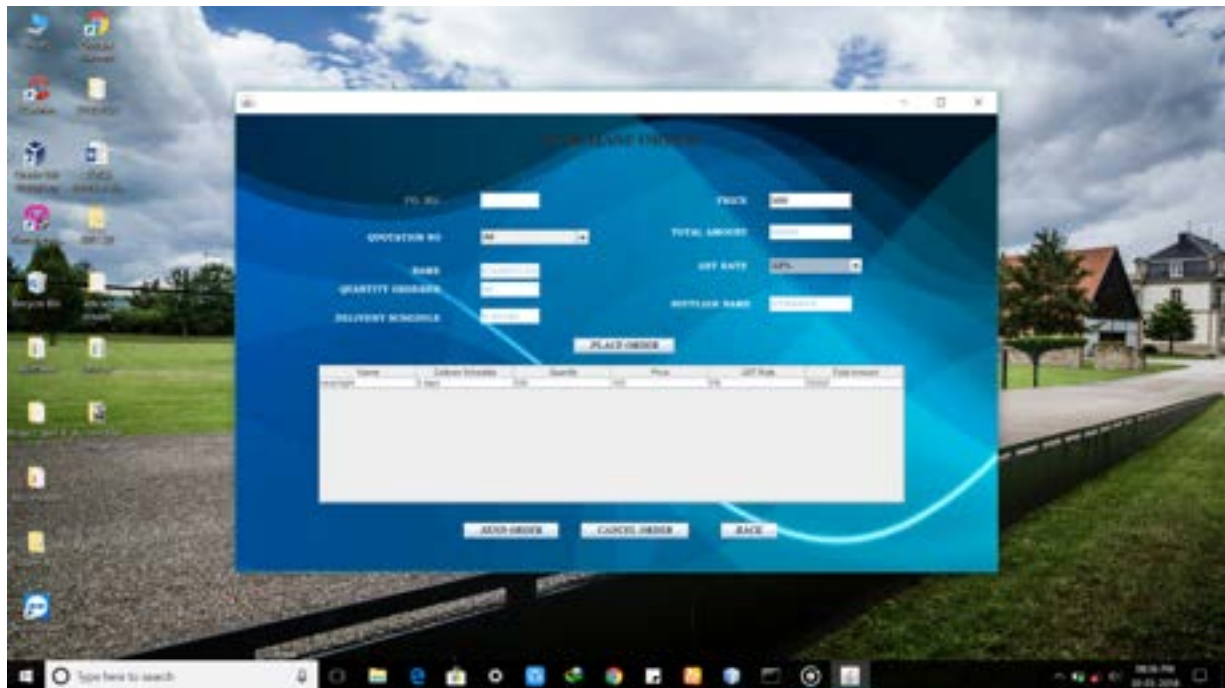
Product Name: Quantity:

Delivery Address: Total Amount:

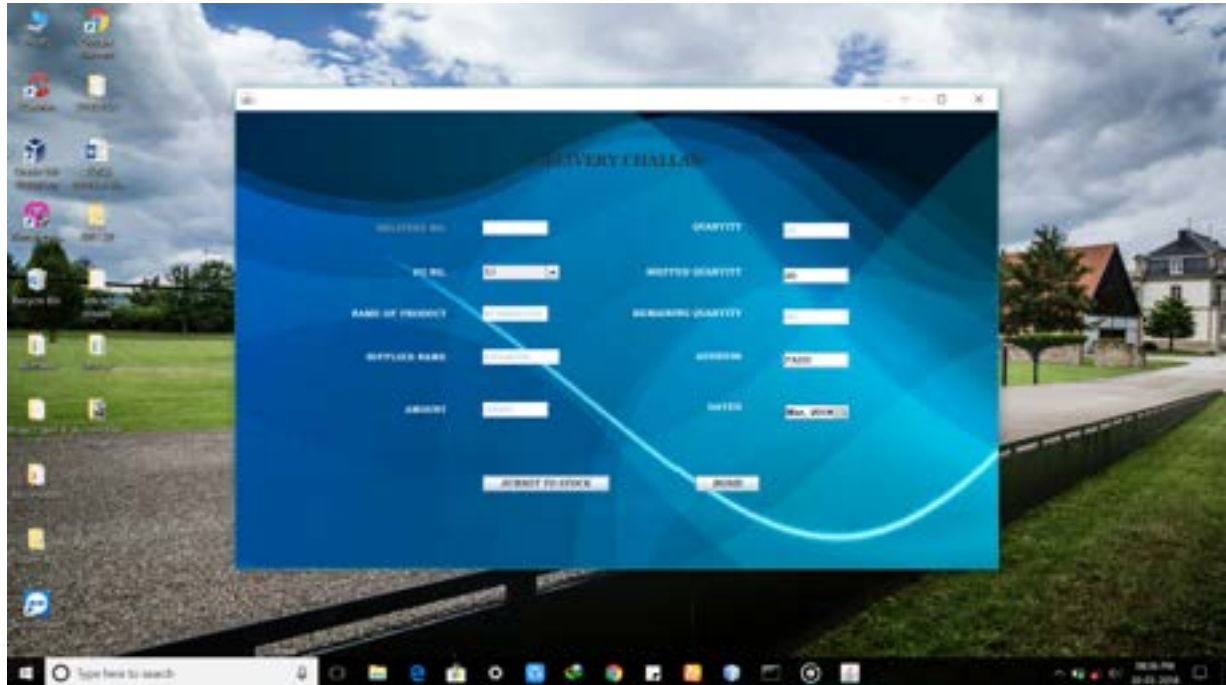
Salinity: Delivery Period:

| Product Name | Unit | Quantity | Rate | Total Amount |
|-----------------|------|----------|------|--------------|
| Sodium Chloride | kg | 100 | 1000 | 10000 |

PURCHASEORDER



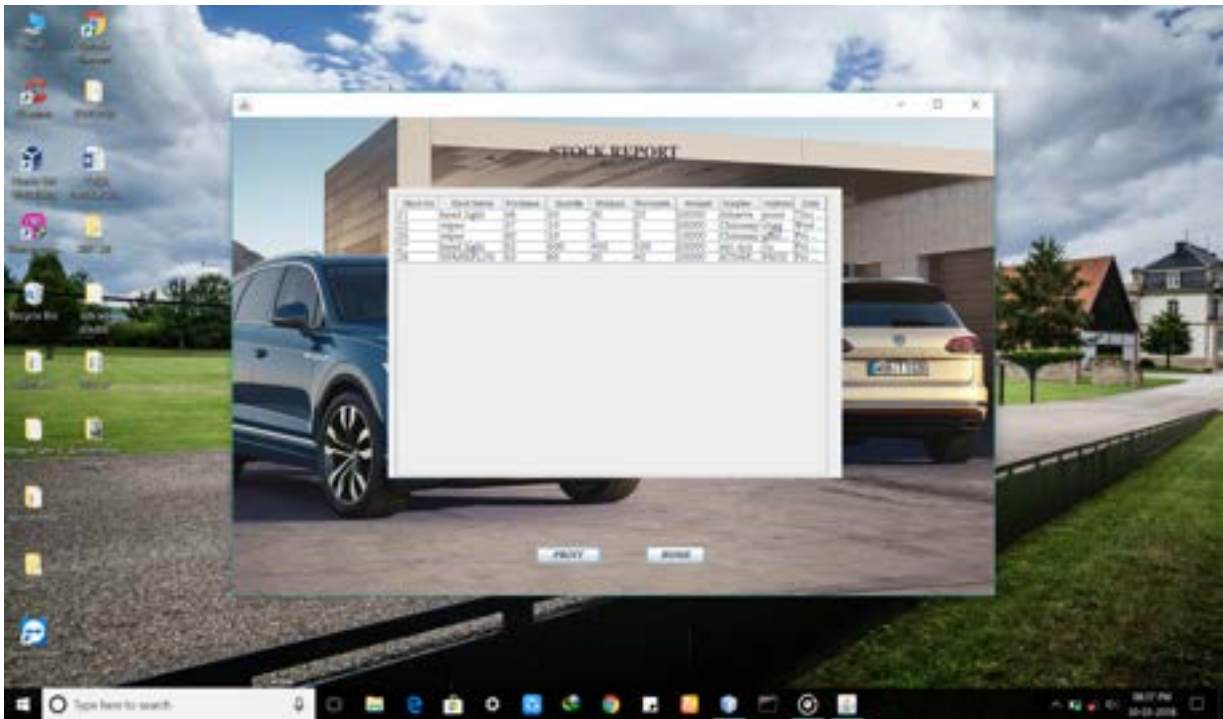
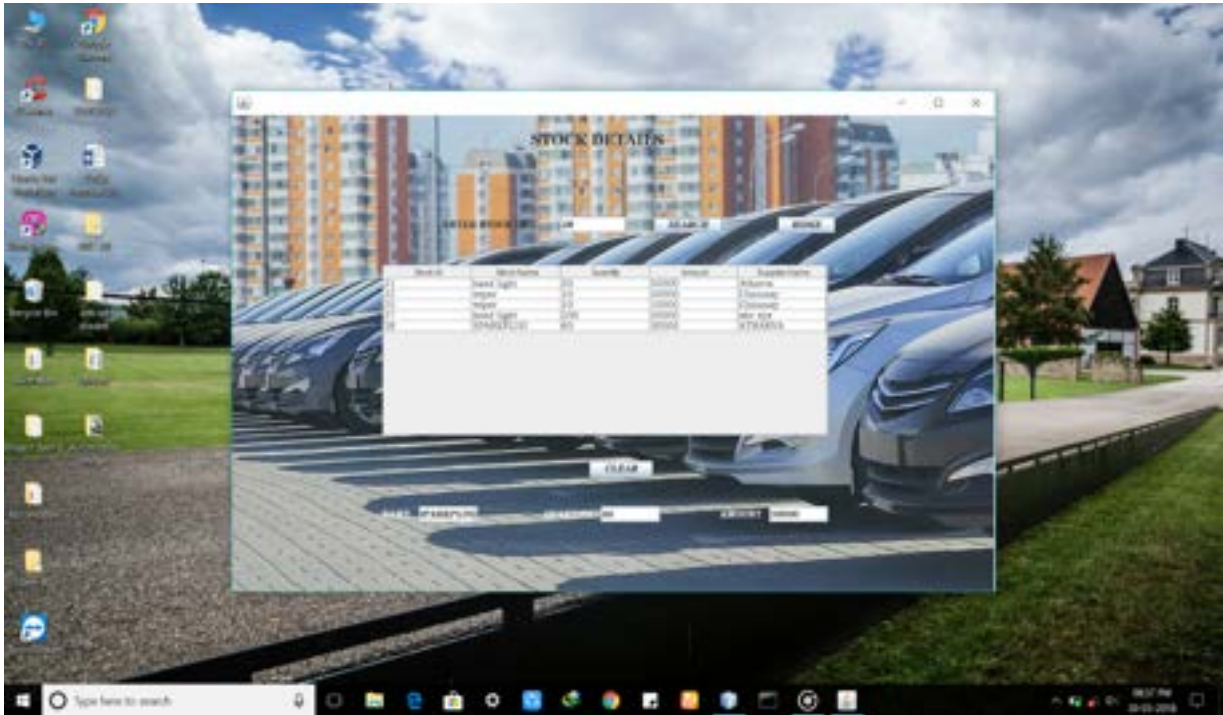
DELIVERY CHALLAN



DELIVERY CHALLAN

| | | | |
|--|----------------------|--------------------------------------|----------------------|
| DELIVER TO NO. | <input type="text"/> | QUANTITY | <input type="text"/> |
| TO NO. | <input type="text"/> | WGTED QUANTITY | <input type="text"/> |
| NAME OF PRODUCT | <input type="text"/> | REMARKS QUANTITY | <input type="text"/> |
| SUPPLIER NAME | <input type="text"/> | AMOUNT | <input type="text"/> |
| ADDRESS | <input type="text"/> | DATE | <input type="text"/> |
| <input type="button" value="SUBMIT TO STOCK"/> | | <input type="button" value="PRINT"/> | |

STOCK DETAILS & REPORT



MORE INFO



ADVANTAGES AND LIMITATIONS

❖ Advantages:

The system is very simple in design and to implement. The system requires very low system resources and will work in almost all configurations.

It has got following advantages:

- ✓ User friendly application.
- ✓ Secured database.
- ✓ Fast processing.
- ✓ Data can be updated easily.
- ✓ Database records can be maintained in computers.
- ✓ Any records can be retrieved when required.
- ✓ System reduces manual workload.
- ✓ Redundancy of data is avoided.
- ✓ Records can be searched and sorted easily.
- ✓ Less error prone and accuracy is maintained.
- ✓ Provides data reports.
- ✓ Helps to maintain accounts.
- ✓ Provides a picture gallery.

❖ Limitations:

Every system has some limitations or drawbacks. Some limitations of System are:

- It is a Stand Alone System.
- It can be used by a Single Person.
- As it is machine dependent, machine failure may result in data loss.
- Some manual data entry required.

FUTURE ENHANCEMENT

- Sales part of the system will be included in next release
- The records in the systems database can be exported in excel and pdf format
- The software will contain the record of Employee wise absentee to know exactly how many days an individual employee has remained absent

BIBLIOGRAPHY

❖ BOOKS REFERRED :

- Learn Java in 72 Hours
- Complete Reference Java
- Java Tutorials

❖ WEBSITES REFERRED :

- www.bigresource.com
- www.stackoverflow.com
- www.honda.com