

# **CONSTRUCTION TRANSPORT MANEGMENT SYSTEM**

**DEVELOPED BY**  
**MILIND SANJAY PATHARE**  
**PRN :-2018420675**

T.Y.B.SC (Computer Science)

**VPM'S B.N. BANDODKAR COLLEGE OF SCIENCE,THANE.**

THANE (W) - 400 601 MAHARASHTRA  
YEAR: 2020-21

**GUAIDENCE BY**  
**MR.TEJAS JADHAV**

**CERTIFICATE OF**  
**NARAYAN CONSTRUCTION TRANSPORT**



Respected Sir,

I hereby certify that "**Mr. MILIND SANJAY PATHARE**" student of **B.N.BANDODAKAR College of Science, Thane** has worked under the requirements for "**NARAYAN CONSTRUCATION TRANSPORT MANEGMENT SYSTEM**" and has successfully completed the project of TYBSC (Computer Science) Course as prescribed by UNIVERSITY OF MUMBAI.

The format and all entire details have been designed by suitable to the project.

Regards,

(Client signature)

## **ACKNOWLEDGEMENT**

Primarily I would thank god for being able to complete this project with success. Then I would thank my guide.

All that I have done is only due to the such direction and support and I am utilizing to thank all the people who have been concerned with this project. In the accomplishment of this project successfully it required a lot of guidance from experienced people and also their heart pledged support.

I express my sincere thanks to the college project guide, my project guidance teacher Mr. Tejas Jadhav, whose valuable guidance has been the ones that helped me patch this project and make it full proof of success. His suggestions and his instructions have served as the major contributor towards the completion of the project.

I would also like thanks to my parents who helped me out at the time of designing of the project.

Finally I apologize all other unnamed who helped me in various ways to complete my project successfully.

## **DECLARATION**

I am Mr. MILIND SANJAY PATHARE the student of VPM's B.N. Bandodar College of Science Thane, T.Y.B.SC (Computer Science), hereby declare that ,I have Completed Project on "NARAYAN CONSTRUCTION TRANSPORT MANEGMENT SYSTEM"

And the information submitted is true.

A handwritten signature in blue ink, appearing to read "Milind Pathare".

**MILIND PATHARE**

**Name and signature of the Student**

# **SYNOPSIS**

Name :- MILIND SANJAY PATHARE

CLASS :- T.Y.B.SC. (Computer Science)

PRN :- 2018420675

**❖ TITLE OF THE PROJECT :-**

## **TRANSPORT MANAGEMENT SYSTEM**

**Company Name :-NARAYAN CONSTRUCTION TRANSPORT**

**❖ ABOUT THE PROBLEM :-**

In the current system ,client is used the long book registered to keeping the records. The client has no any backlog or database of the customers. There are many difficulties face for maintaining the all records of the vehicle and managing the records.

All management done by anybody, there is no security level in this system and also customers did not get the transparency about the bill.

Maintaining the all details of the client and Making the daily and monthly bills.

**❖ PRIMARY REASON TO CHOOSE THE TOPIC :-**

- 1) The transportation company is near to my area.
- 2) keeping the security level.
- 3) Maintain the all facilities to the customers.

**❖ OBJECTIVE :-**

- 1) The privacy and security is more important in this project.
- 2) User friendly desktop application.
- 3) Very easy to maintain the all records.
- 4) Single user mode application.

**❖ SCOP OF THE PROJECT :-**

- 1) It will take the daily and monthly report of the different customers.
- 2) It will be the user friendly application.
- 3) It stores the many of the data and records.
- 4) Maintain the all functionalities for making bills of the customers.
- 5) Keeping the all records of vehicle.
- 6) Keeping the transparency between the client and customers.

**❖ WORKING METHODOLOGY :-**

- 1) Client must be login to the login page.
- 2) There will be the all content of the application shows in the home page. Like Bill, details of vehicles, maintain data of the customers.
- 3) Taking the monthly records of the customers and reports.
- 4) Save, update ,Delete and manage the records.
- 5) Calculating the fees and providing the receipt.

**❖ HARDWARE REQUIREMENT :-**

- 1) Hard Disk :- Minimum 5GB required.
- 2) RAM :- Minimum 4GB required.
- 3) Processor :- Minimum i3 required.

**❖ SOFTWARE REQUIREMENT :-**

- 1) Windows 10 Operating System -(64-Bits).
- 2) NetBeans version-8.2
- 3) Mysql Database.

**❖ LISTING OF TESTING TECHNOLOGY :-**

- 1) System Testing.
- 2) Unit Testing.
- 3) Integration testing.
- 4) User acceptance testing.

**❖ LIMITATIONS OF THE PROPOSED SYSTEM :-**

The System cannot handle the online Payment of the particular Customers Bill.

**❖ DURATION OF THE PROJECT :- 3 Months.**

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## **1.INTRODUCTION**

**THE NARAYAN CONSTRUCTION TRANSPORT** is private vehicle transport company which is located at the B-8,Sainiketan,Co-op. Hsg. Society Near Omega English High School, Khindipada, Bhandup(w),Mumbai-400 082.

The main aim of the project is to manage the staff of the Company, Making the Bill and Give the Client better transparency and accuracy.

Also having the report of the vehicle which are present.

### **Introduction to the Project :**

#### **❖ Objective and Scope of the Project**

- The main objective of the Construction Transport Management System is to build the transparency among the Developer's and clients.
- Making the Records of the staff and manage the system very simply way with using this system.
- Make the simple and very clear formatted Bill or Estimates which is clearly defines the all details of the service which are we having.

#### **❖ Existing System :-**

- In the Existing System, Company Dose not making the any records of the staff members. So as that reasons company dose not have any record of particular member. Such like as Address ,mobile No. ,Alternate No. ,Email Address etc.

- Also ,While making the Bill for the client there is no transparency between them. It also make the Book Kind of system in which there are many chances to misplaced it. And after making the book receipt it can not be update or there is no chance to making corrections.
- For storing the records ,They have to place the different books for different jobs to store the data.

#### ❖ PROPOSED SYSTEM :-

- In this System, We Can Store all kind of records related to company . such as the all existing staff records, Making the Bill , report of the vehicle.
- Staff Management.
- For the security reason LOGIN System is very important for it.
- It is single user Mode desktop Application which is used by the Authorized person of the company.
- We can manage the all data at a single application.

## **2.FEASIBILITY STUDY**

Preliminary investigation examines project feasibility, the likelihood the system will be useful to the proprietor. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

- ❖ Technical Feasibility
- ❖ Operational Feasibility
- ❖ Economic Feasibility

### **➤ TECHNICAL FEASIBILITY**

It is essential that the process of analysis and definition be conducted in parallel with an assessment to technical feasibility. The current system developed is technically feasible. It is an application-based user interface. Thus, it provides an easy access to the company manager. The database's purpose is to create, establish and maintain a workflow among various entities. Therefore, it provides the technical guarantee of accuracy, reliability and security. The work for the project is done with the current equipment and existing software technology.

### **➤ ECONOMIC FEASIBILITY**

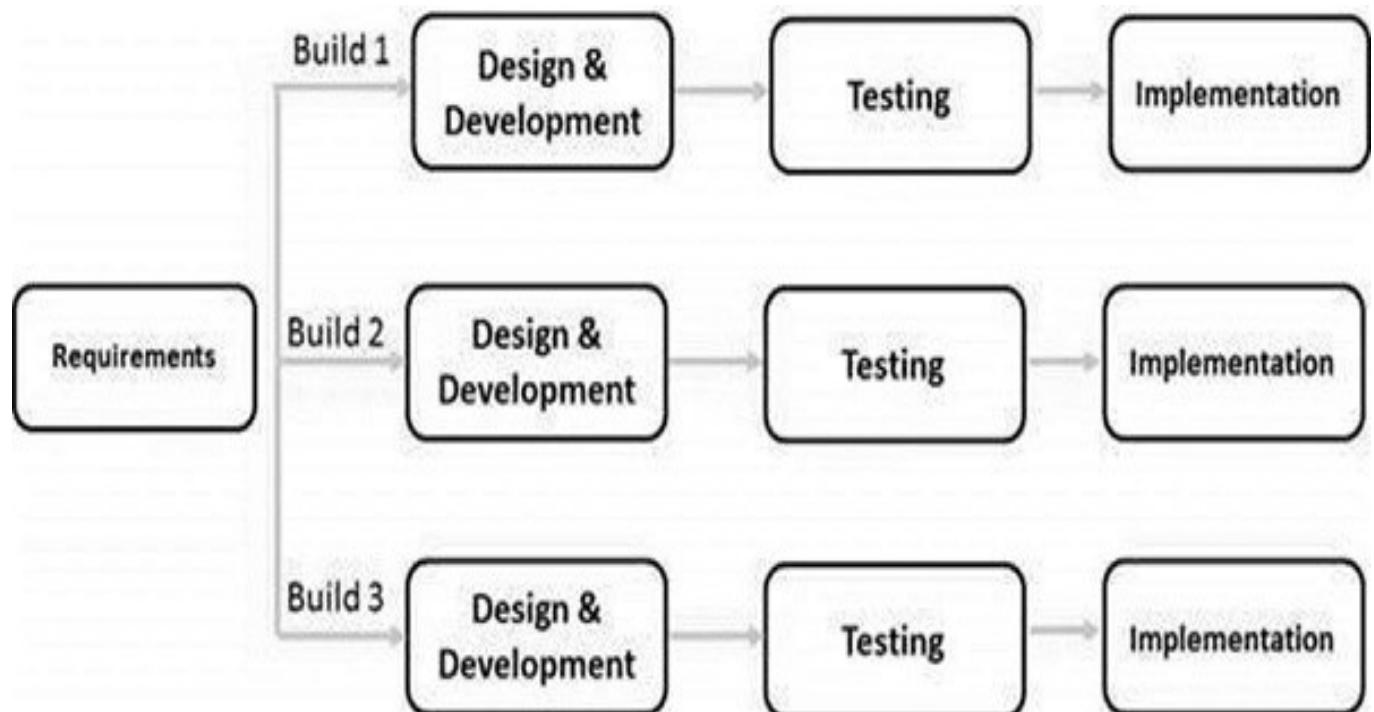
Economic feasibility is determined by the means of cost benefit analysis. The proposed system is economically feasible as the cost involved in purchasing the hardware and software falls within the budget. It is worth to invest within the proposed system as it offers many such functionalities that falls under the budget and would make the tangled work, flow in a smooth manner. The recovery of the cost incurred in the project would consume a minimal span of time. The proposed system will give the minute

information, as a result the performance is improved which in turn may be expected to provide increased profits.

## ➤ OPERATIONAL FEASIBILITY

With the proposed system, the user can login into their zone where the sorted form of information would be available for him to take into use. For the implementation of this proposed system, the user should know about the computer basics, information about working with windows platform, login, logout, profiles, sorting knowledge between the required things. These skills are required to be known by the user and if the user is unaware of such tactics, he can easily learn it which requires hardly any time to invest into it. All over the proposed system is operationally feasible as it is very easy for the end users to handle it.

## 3.ITERATIVE MODEL DIAGRAM



### **3.1 Model Implementation**

To develop this project used the Iterative Model. The most Primary reason to used this model is the all requirements of the project is clearly defined and understood. The major requirements are defined, while some functionalities and requested enhancements evolve with the process of the development process. The main scope to used this model is flexible ,less costly and very easy to used. Each phase characterized in Iterative Model has a specific deliverable.

#### **Phases of Iterative Model :-**

| <b>Phases</b>        | <b>Description</b>   |
|----------------------|--|
| Requirements Stage   | The system related information is gathered and analysed.   |
| Design Stage         | The software solution is prepared to meet the necessities for the design. The system design may be a new one or extension of previous build one. |
| Test Stage           | The system is developed by coding and building the user interface and modules which is then incorporated and tested.                             |
| Implementation Stage | This stage is same as Test Stage in which system is developed by coding and building the user interface.   |

## **4.DATABASES DESIGN WITH RECORDS**

- **CUSTOMERS :-**

| <b>Column Name</b> | <b>Data Type()</b> |
|--------------------|--------------------|
| Id                 | Varchar(10)        |
| CustomerName       | Varchar(50)        |
| contact            | Varchar(20)        |
| address            | Varchar(50)        |
| gstno              | varchar(50)        |
| date               | Varchar(20)        |
| challan            | Varchar(50)        |
| Vehiclecode        | Varchar(50)        |
| vehicleno          | Varchar(50)        |
| totaltrip          | int(20)            |
| ratepertrip        | int(20)            |
| subamount          | int(20)            |
| sgst               | int(20)            |

|             |         |
|-------------|---------|
| sgstamt     | int(20) |
| cgst        | int(20) |
| cgstamt     | int(20) |
| grandamount | int(20) |

- **Vehicle :-**

| Column Name | Data Type() |
|-------------|-------------|
| Id          | Varchar(10) |
| Code        | Varchar(50) |
| number      | Varchar(50) |
| type        | Varchar(50) |
| model       | Varchar(50) |
| chessis     | Varchar(50) |
| engine      | Varchar(50) |

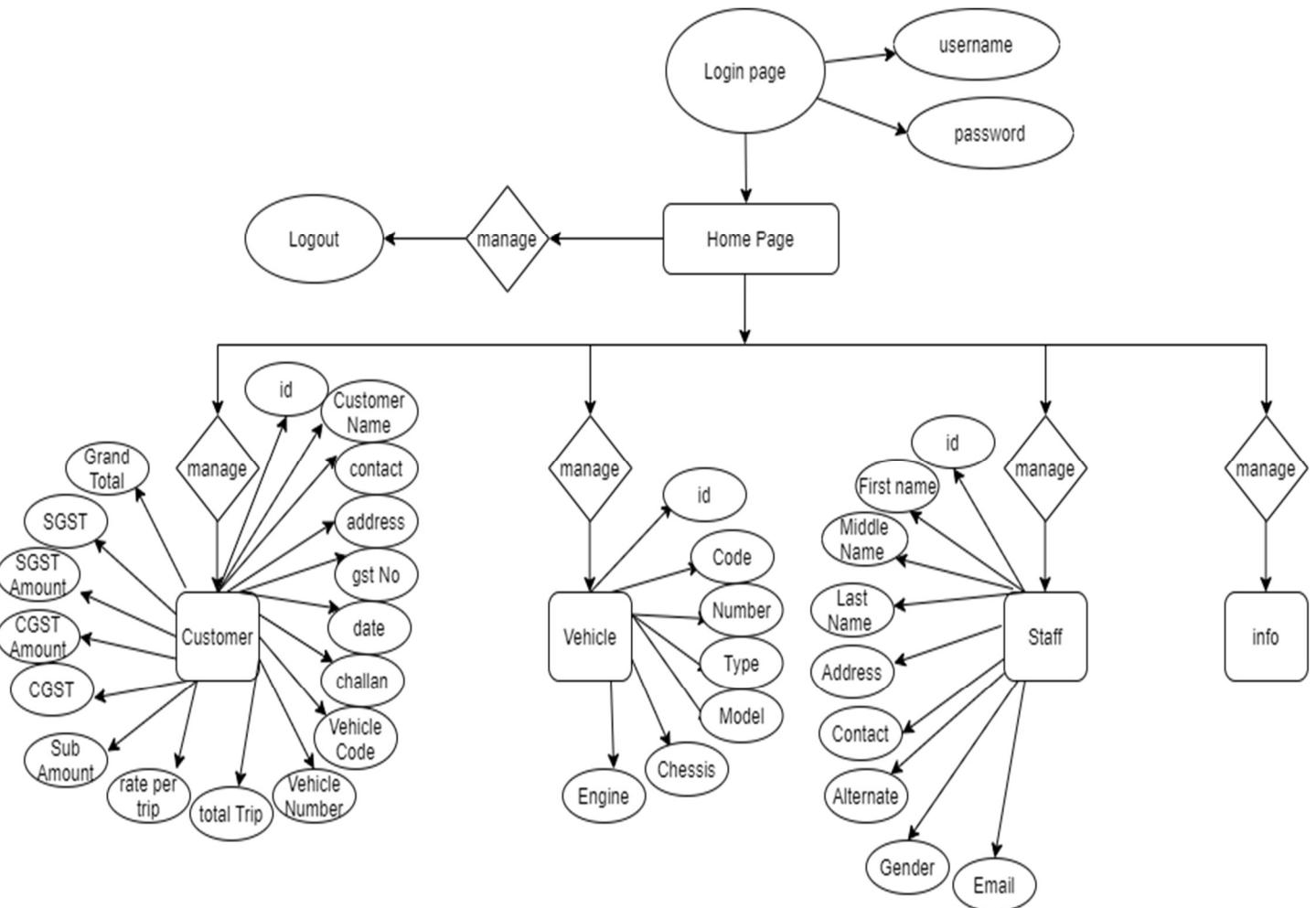
- **Staff :-**

| Column Name | Data Type() |
|-------------|-------------|
| Id          | Varchar(10) |
| fname       | Varchar(50) |

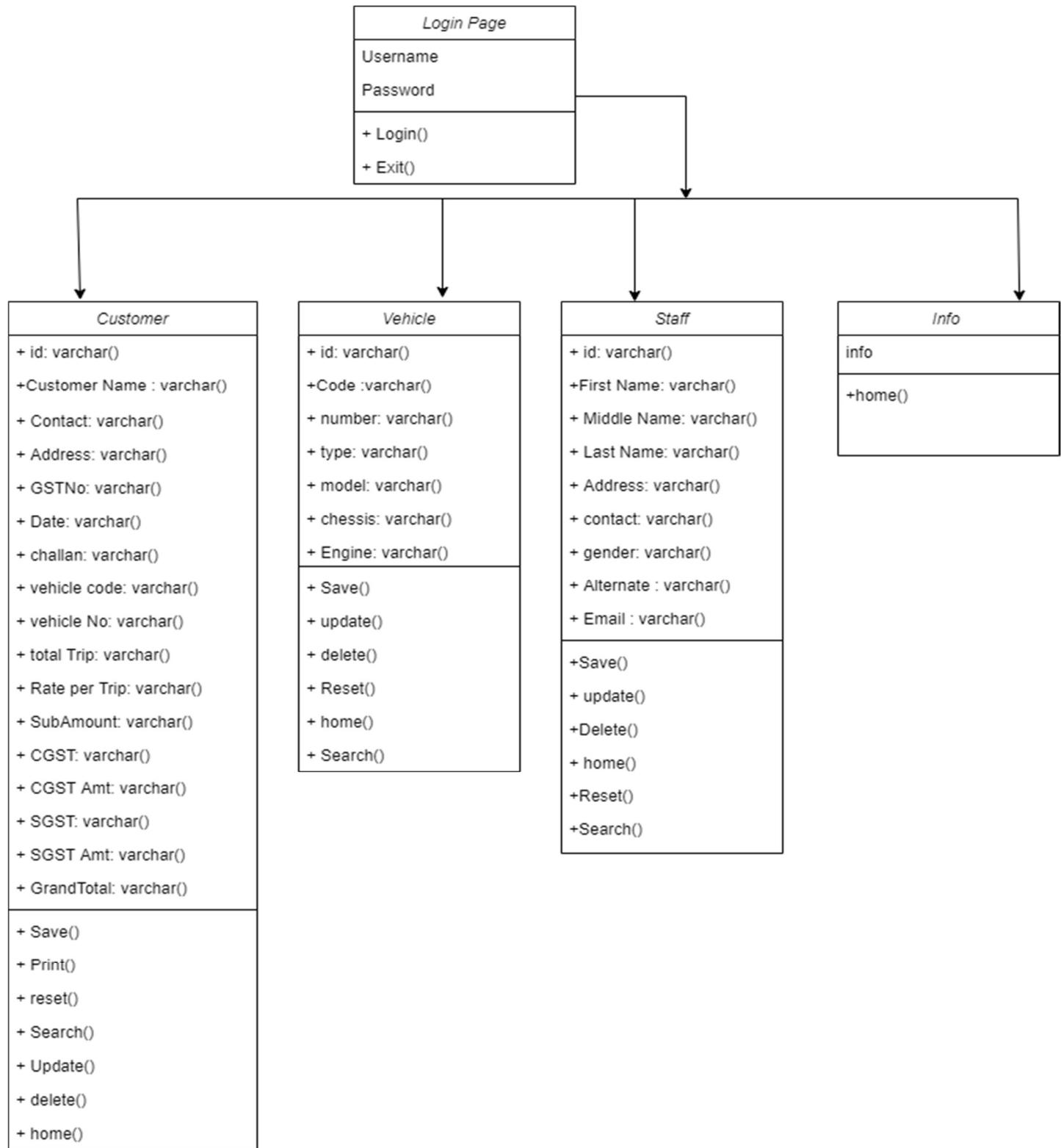
|           |             |
|-----------|-------------|
| mname     | Varchar(50) |
| Iname     | Varchar(50) |
| address   | Varchar(50) |
| gender    | Varchar(20) |
| contact   | Varchar(20) |
| alternate | Varchar(20) |
| email     | Varchar(20) |

# 5.DIAGRAMS

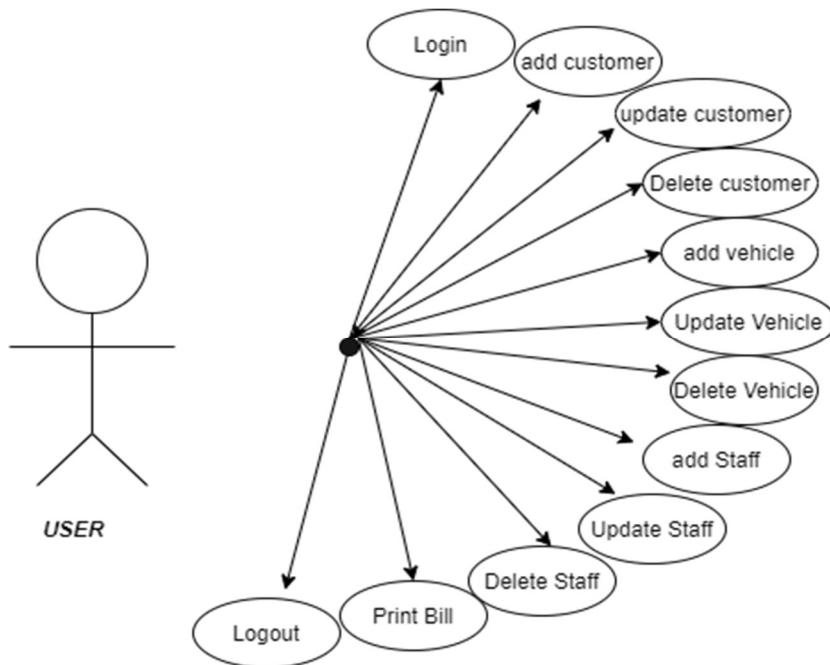
## 5.1 E.R DIAGRAM :-



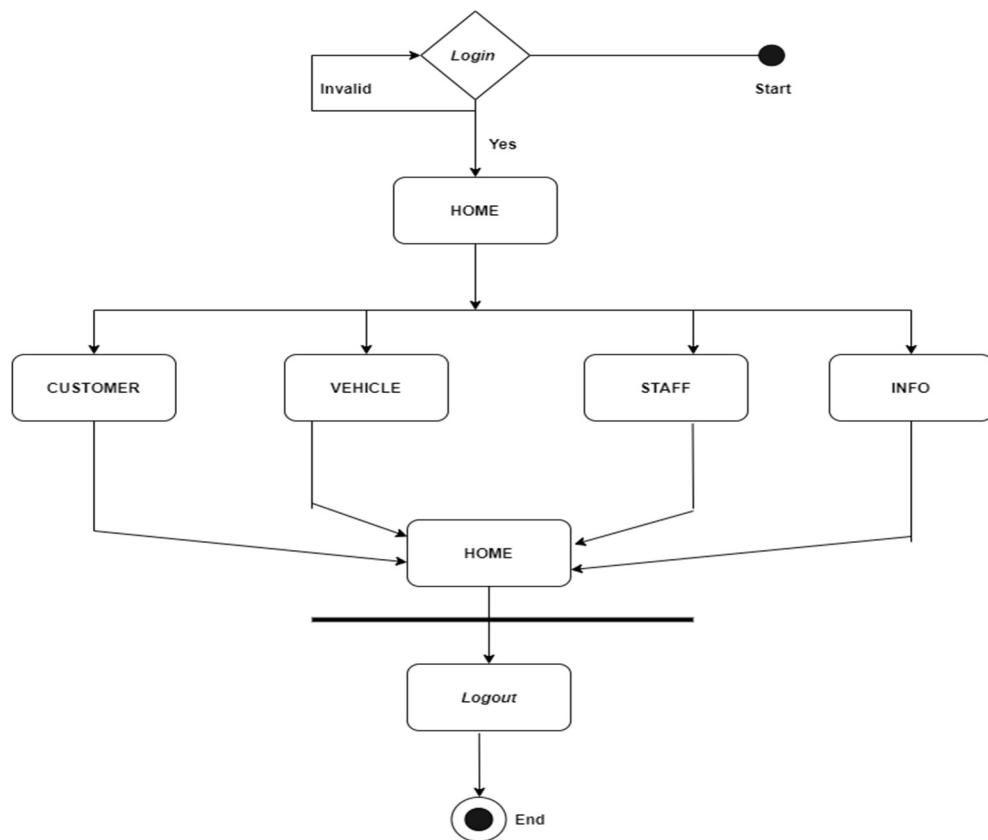
## 5.2 Class Diagram :-



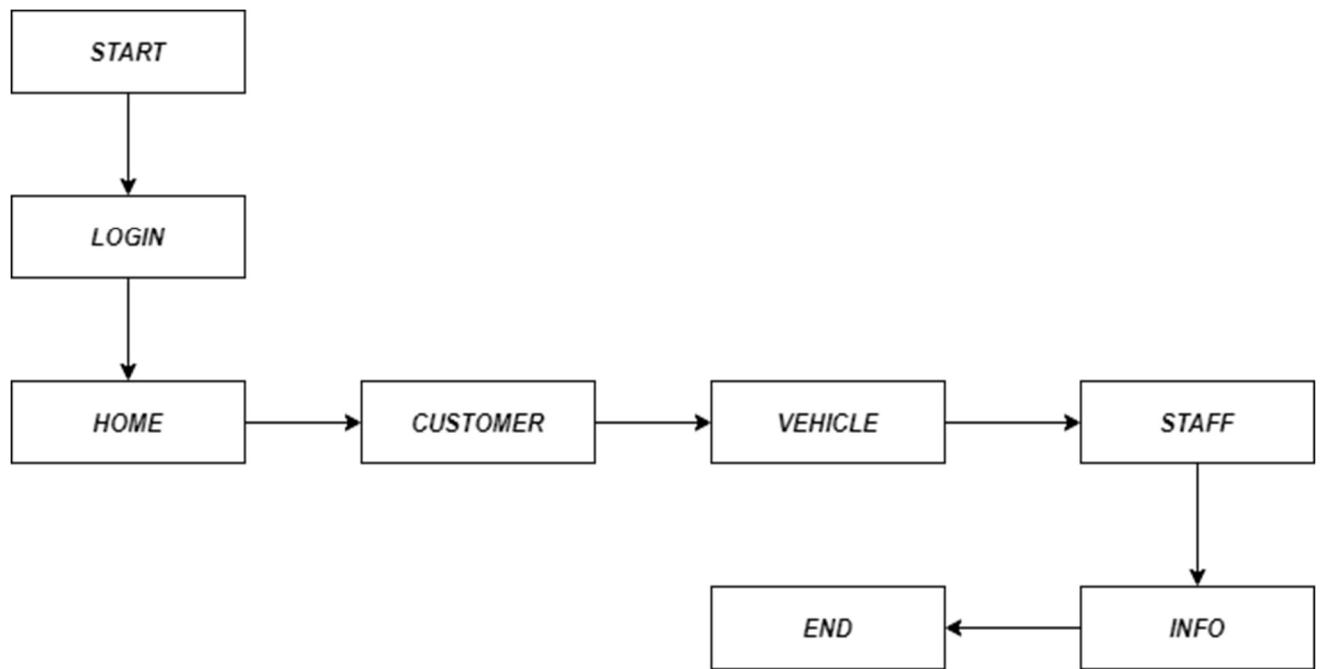
### 5.3 Use case Diagram :-



### 5.4 Activity Diagram :-



## 5.5 Data Flow Diagram :-



## 5.6 GANTT CHART :-

| Construction Transport Management System | Week 1       | Week 2 | Week 3 | Week 4 | Week 1          | Week 2 | Week 3 | Week 4 | Week 1         | Week 2 | Week 3 | Week 4 | Week 1         | Week 2 | Week 3 | Week 4 |
|--|--------------|--------|--------|--------|-----------------|--------|--------|--------|----------------|--------|--------|--------|----------------|--------|--------|--------|
| Requirement                              | 10Mar- 15Mar |        |        |        |                 |        |        |        |                |        |        |        |                |        |        |        |
| Designing and Development                |              |        |        |        | 16 Mar – 20 Mar |        |        |        |                |        |        |        |                |        |        |        |
| Testing                                  |              |        |        |        |                 |        |        |        | 22Mar – 30 Mar |        |        |        |                |        |        |        |
| Documentation                            |              |        |        |        |                 |        |        |        |                |        |        |        | 2 Apr – 08 Apr |        |        |        |

## 6.TEST CASES

| SR.<br>NO | Action                                  | Input                              | Expected<br>Output            | Actual<br>Output              | Test<br>Result | Test<br>Comment               |
|-----------|---|------------------------------------|-------------------------------|-------------------------------|----------------|-------------------------------|
| 1.        | Launch the Application                  | Click on software                  | Login page                    | Login Page                    | Pass           | Successful                    |
| 2.        | Username and password matched           | Username :admin<br>Password: ***** | Home Page                     | Home Page                     | Pass           | Home window                   |
| 3.        | If username and password not correct    | Username :admin<br>Password: ***** | “Check username and password” | “Check username and password” | Fail           | Invalid username and password |
| 4.        | If Mobile number is not 10 digit        | 123456789                          | “Invalid Contact”             | “Invalid Contact”             | Fail           | Unsuccessful                  |
| 5.        | If Mobile number is not in numeric Form | 12345abcd                          | “Invalid Contact”             | “Invalid Contact”             | Fail           | Unsuccessful                  |
| 6.        | If Email id is not in correct form      | milindpathare.                     | “Invalid Email id ”           | “Invalid Email id ”           | Fail           | Unsuccessful                  |

|     |                                       |                     |                              |                              |      |              |
|-----|---------------------------------------|---------------------|------------------------------|------------------------------|------|--------------|
| 7.  | If mobile no. is 10 digit             | Mobile number       | No Error Message             | No Error Message             | Pass | Successful   |
| 8.  | if mobile number is in correct format | Mobile number       | No Error message             | No Error Message             | Pass | Successful   |
| 9.  | if email address is in correct format | Enter email address | no Error message             | No Error Message             | Pass | Successful   |
| 10. | If all fields are empty               | Name : -----        | “Please Fill required field” | “Please Fill required field” | Fail | unsuccessful |
| 11. | If Delete Empty Record                | Delete              | “Please Select Row”          | “Please Select Row”          | Fail | Unsuccessful |
| 12. | If Search Data not Found              | Search              | “Record Not Found”           | “Record Not Found”           | Fail | Unsuccessful |

## 7. EVENT TABLE

| SR. NO. | Event                   | Trigger | Source | Activity                          | Response                              | Destination |
|---------|-------------------------|---------|--------|-----------------------------------|---------------------------------------|-------------|
| 1.      | User Login              | Login   | Admin  | Check valid username and Password | Opens Home Page if successfully login | Admin       |
| 2.      | Add new Customer        | Add     | Admin  | Add a new Customer                | One Customer inserted                 | Admin       |
| 3.      | Update Bill             | Update  | Admin  | Updating the Bill                 | Updated successfully                  | Admin       |
| 4.      | Delete Bill             | Delete  | Admin  | Deleting the Bill                 | Deleted successfully                  | Admin       |
| 5.      | Search Bill             | Search  | Admin  | Searching the Bill                | Search Data                           | Admin       |
| 6.      | Print Bill              | Print   | Admin  | Printing the Bill                 | Print                                 | Admin       |
| 7.      | New staff Added         | Add     | Admin  | Adding the new Staff Member       | One Member inserted                   | Admin       |
| 8.      | Update Staff Member     | Update  | Admin  | Updating the Staff Member         | Updated Successfully                  | Admin       |
| 9.      | Delete Staff            | Delete  | Admin  | Deleting the Staff Member         | Deleted Successfully                  | Admin       |
| 10.     | Search the Staff Member | Search  | Admin  | Searching the Staff member        | Search                                | Admin       |

|     |                |        |       |                |                      |       |
|-----|----------------|--------|-------|----------------|----------------------|-------|
| 11. | Add Vehicle    | Add    | Admin | Add Vehicle    | Add Successfully     | Admin |
| 12. | Update Vehicle | Update | Admin | Update Vehicle | Updated Successfully | Admin |
| 13. | Delete Vehicle | Delete | Admin | Delete Vehicle | Deleted Successfully | Admin |
| 14. | Search Vehicle | Search | Admin | Search Vehicle | Search Data          | Admin |

## 8.VALIDATIONS

### 1) if Contact Number is Invalid

12:41:42 PM 02-04-2021

ID :- 003

FIRST NAME :- MILIND

MIDDLE NAME :- SANJAY

LAST NAME :- PATHARE

ADDRESS :- THANE

GENDER :- SELECT

MOBILE :- 982040327

Alternate MOB :- 8369

EMAIL ID :-

**SAVE**    **UPDATE**

**DELETE**    **RESET**

**HOME**

**ADD STAFF**

Search by First Name  **SEARCH**

| ID  | FName | MName  | LName   | address | gender | mobile | alternate | email |
|-----|-------|--------|---------|---------|--------|--------|-----------|-------|
| 002 | sumit | sanjay | pathare | Thane   | MALE   | 83695  | 654821    |       |

warning

Envalid Contact number!!

**OK**

### 2) if Email Address is Invalid

12:41:59 PM 02-04-2021

ID :- 003

FIRST NAME :- MILIND

MIDDLE NAME :- SANJAY

LAST NAME :- PATHARE

ADDRESS :- THANE

GENDER :- SELECT

MOBILE :- 982040327

Alternate MOB :- 8369

EMAIL ID :- milindpathare

**SAVE**    **UPDATE**

**DELETE**    **RESET**

**HOME**

**ADD STAFF**

Search by First Name  **SEARCH**

| ID  | FName | MName  | LName   | address | gender | mobile | alternate | email |
|-----|-------|--------|---------|---------|--------|--------|-----------|-------|
| 002 | sumit | sanjay | pathare | Thane   | MALE   | 83695  | 654821    |       |

warning

Envalid Email Address !!

**OK**

### 3) If Alternate Contact is Invalid

12:41:45 PM 02-04-2021

### ADD STAFF

| ID  | FName | MName  | LName   | address | gender | mobile | alternate | email |
|-----|-------|--------|---------|---------|--------|--------|-----------|-------|
| 002 | sumit | sanjay | pathare | Thane   | MALE   | 83695  | 654821    |       |

ID :- 003

FIRST NAME :- MILIND

MIDDLE NAME :- SANJAY

LAST NAME :- PATHARE

ADDRESS :- THANE

GENDER :- SELECT

MOBILE :- 982040327

Alternate MOB :- 8369

EMAIL ID :-

**SAVE** **UPDATE**

**DELETE** **RESET**

**HOME**

Search by First Name **SEARCH** **(-)** **(X)**

**warning**  
! Envalid Alternate number!!  
**OK**

### 4) If Bill Operation is Invalid

11:34:17 AM 05-04-2021

### ADD CUSTOMERS

BILL ID :- 003

To:- abcd Contact No : 982040327

Address :- thane GSTIN :- abcd123

Date :- 06/04/2021 Challan No :- 001

Vehicle Code:- nt001 Vehicle No. :- MH02G

Total Trip :- 2 Rate Per Trip :- **Warning**  
! Enter the Rate Of Trip or Check The Operation!!

Amount :-

SGST :- 0 % Amount :-

CGST :- 0 % Amount:-

Grand Amount :-

**SAVE** **PRINT** **UPDATE**

**DELETE** **RESET** **HOME**

Search by Name **SEARCH** **(-)** **(X)**

## 5) If GST Details are Empty or wrong operation is performed

11:34:26 AM 05-04-2021

**ADD CUSTOMERS**

|                 |            |                  |           |   |     |     |
|-----------------|------------|------------------|-----------|---|-----|-----|
| BILL ID :-      | 003        | Search by Name   |           | SEARCH  | (-) | (X) |
| To :-           | abcd       | Contact No :     | 982040327 |   |     |     |
| Address :-      | thane      | GSTIN :-         | abcd123   |   |     |     |
| Date :-         | 06/04/2021 | Challan No :-    | 001       |   |     |     |
| Vehicle Code:-  | nt001      | Vehicle No. :-   | MH02GN454 | Warning   |     |     |
| Total Trip :-   | 2          | Rate Per Trip :- | 5000      |  Please Check Details!!! |     |     |
|                 |            | Amount :-        | 10000     | OK  |     |     |
| SGST :-         | 0          | % Amount :-      |           |   |     |     |
| CGST :-         | 0          | % Amount:-       |           |   |     |     |
| Grand Amount :- |            |                  |           | 10000   |     |     |
| SAVE            |            | PRINT            | UPDATE    |   |     |     |
| DELETE          |            | RESET            | HOME      |   |     |     |

## 6) If Duplicate Record Save

03:57:35 PM 02-04-2021

**ADD VEHICLE**

|                   |            |                |  |        |     |     |  |
|-------------------|------------|----------------|--|--------|-----|-----|--|
| ID :-             | 001        | Search by Code |  | SEARCH | (-) | (X) |  |
| PRODUCT CODE :-   | NT001      |                |  |        |     |     |  |
| VEHICLE NUMBER :- | MH02GN4545 |                |  |        |     |     |  |
| TYPE :-           | JCB        |                |  |        |     |     |  |
| MODEL :-          | suzuki     |                |  |        |     |     |  |
| CHESSIS NO. :-    | FIGKR654   |                |  |        |     |     |  |
| ENGINE NO. :-     | 545EFE     |                |  |        |     |     |  |
| SAVE              |            | UPDATE         |  |        |     |     |  |
| DELETE            |            | RESET          |  |        |     |     |  |
| HOME              |            |                |  |        |     |     |  |

warning

 Can not Save Duplicate Record!!!

OK

## 7) If Empty Record save

11:32:58 AM 05-04-2021

**ADD CUSTOMERS**

BILL ID :- 003

To:- [ ] Contact No : [ ]

Address :- [ ] GSTIN :- [ ]

Date :- [ ] Challan No :- [ ]

Vehicle Code:- [ ] Vehicle No. :- [ ]

Total Trip :- 0 Rate Per Trip :- [ ]

Amount :- [ ] SGST :- 0 % Amount :- [ ]

CGST :- 0 % Amount:- [ ]

Grand Amount :- [ ]

SAVE PRINT UPDATE

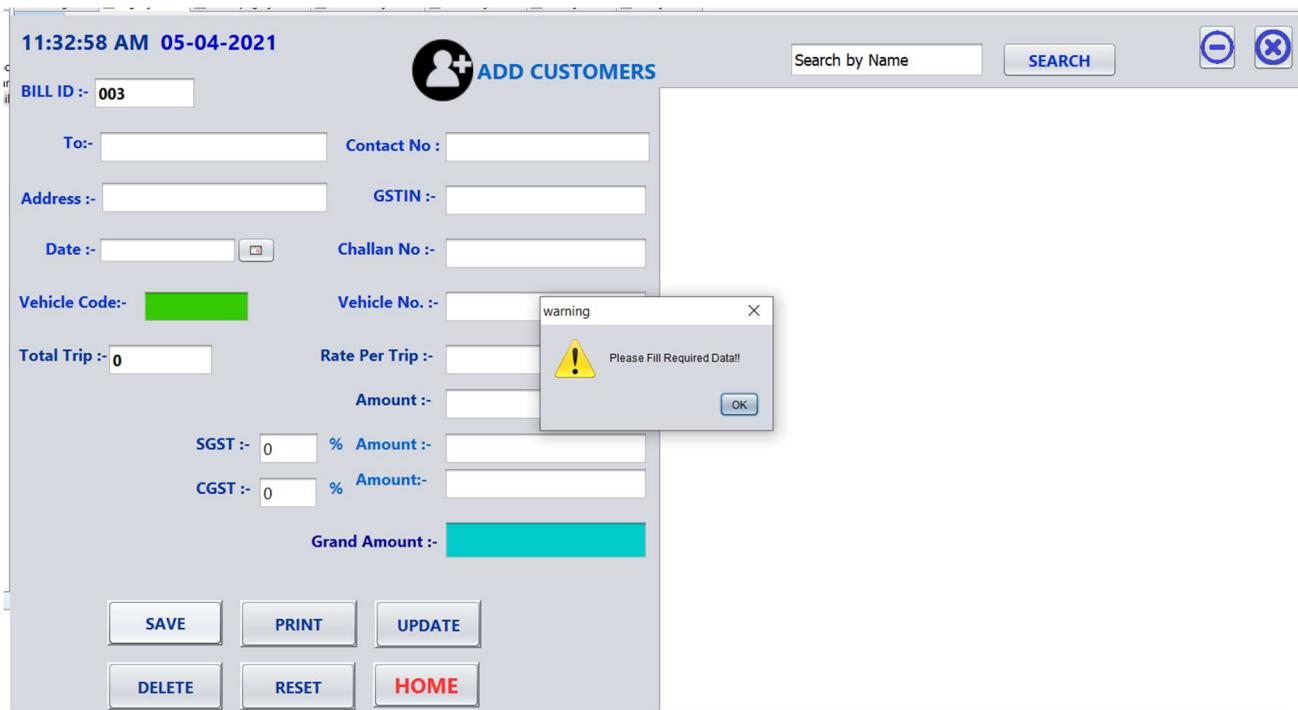
DELETE RESET HOME

Search by Name

**warning**

Please Fill Required Data!

**OK**



## 8) If Empty Record update ,Delete, Print

11:33:11 AM 05-04-2021

**ADD CUSTOMERS**

BILL ID :- 003

To:- [ ] Contact No : [ ]

Address :- [ ] GSTIN :- [ ]

Date :- [ ] Challan No :- [ ]

Vehicle Code:- [ ] Vehicle No. :- [ ]

Total Trip :- 0 Rate Per Trip :- [ ]

Amount :- [ ] SGST :- 0 % Amount :- [ ]

CGST :- 0 % Amount:- [ ]

Grand Amount :- [ ]

SAVE PRINT UPDATE

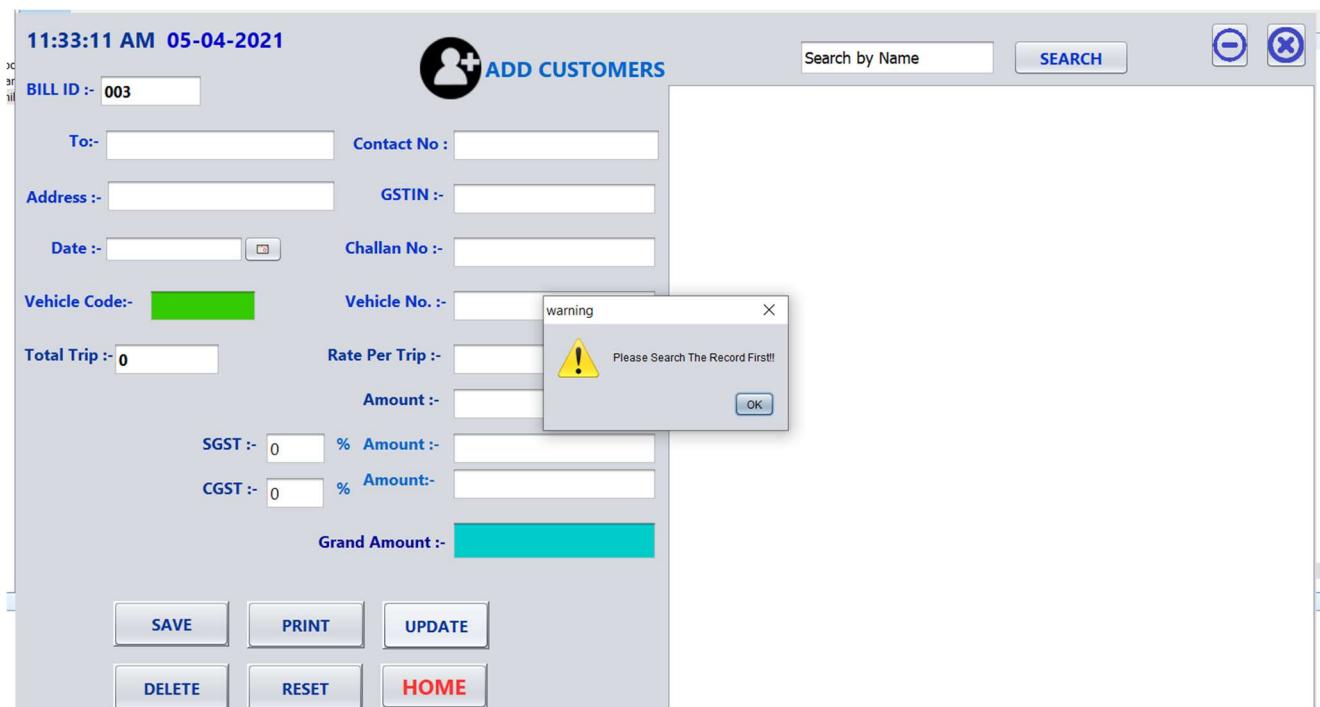
DELETE RESET HOME

Search by Name

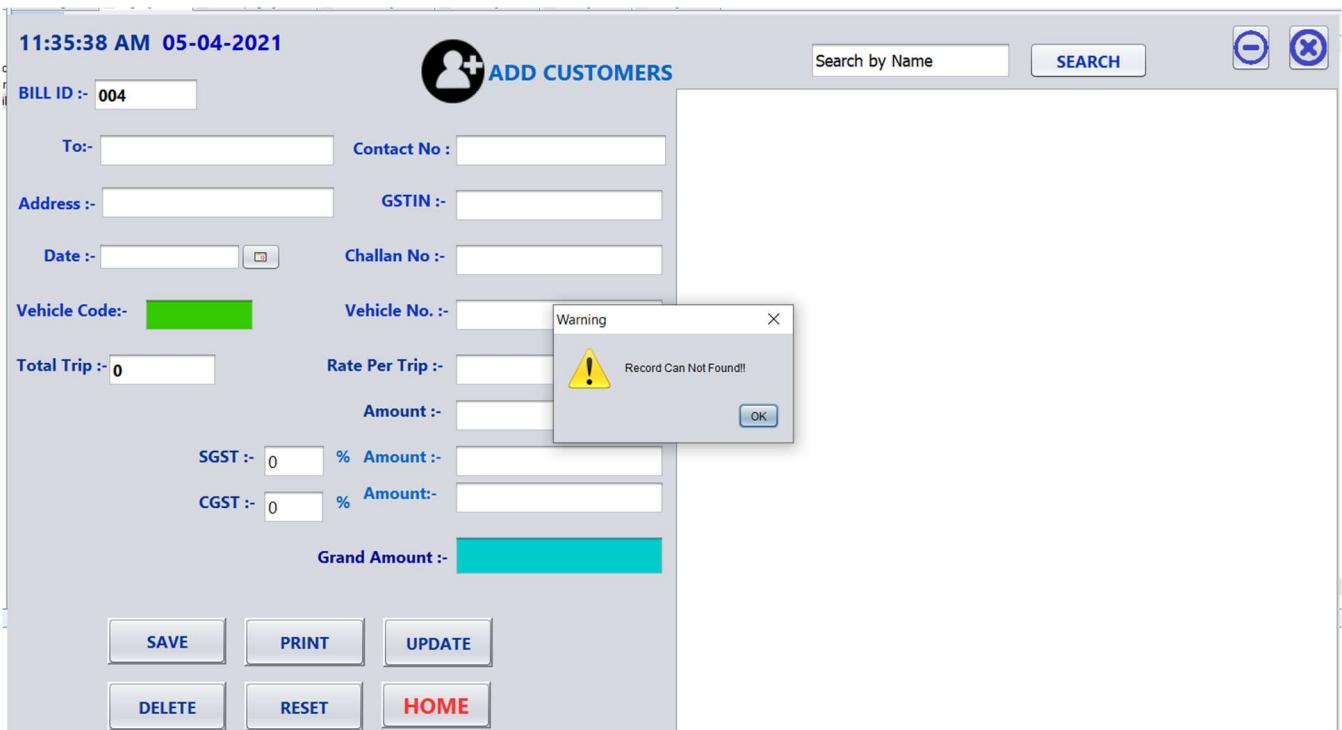
**warning**

Please Search The Record First!!

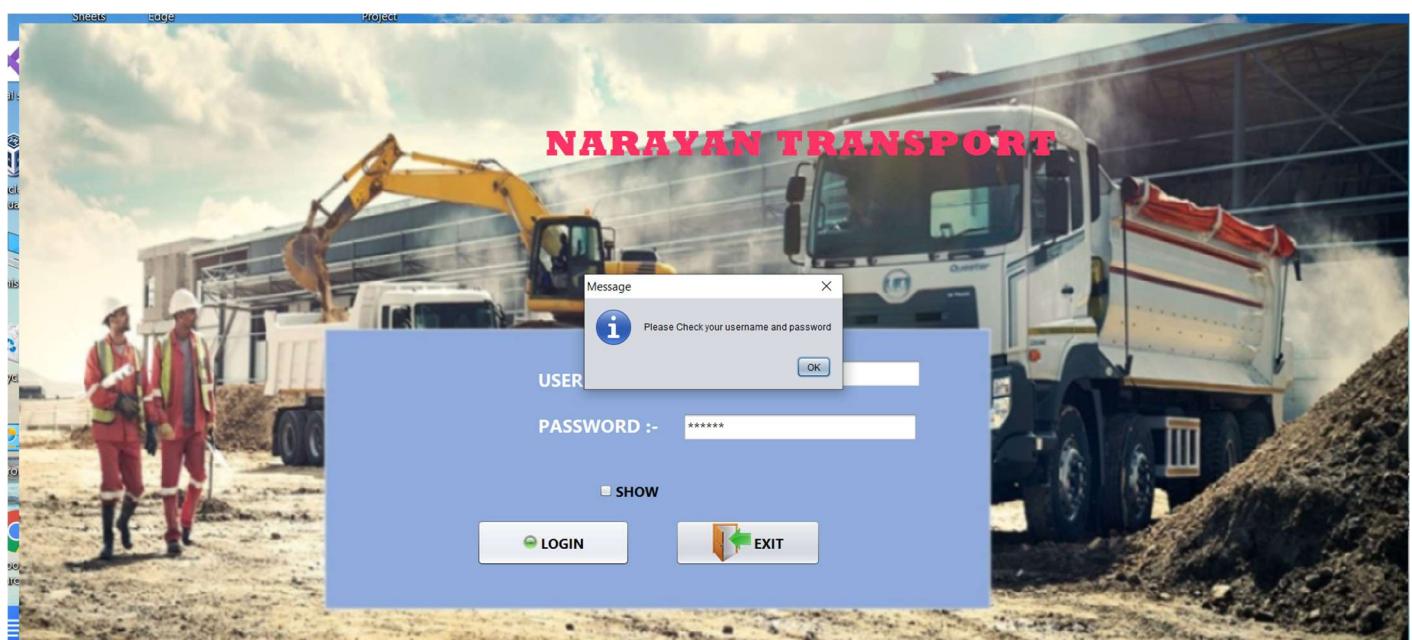
**OK**



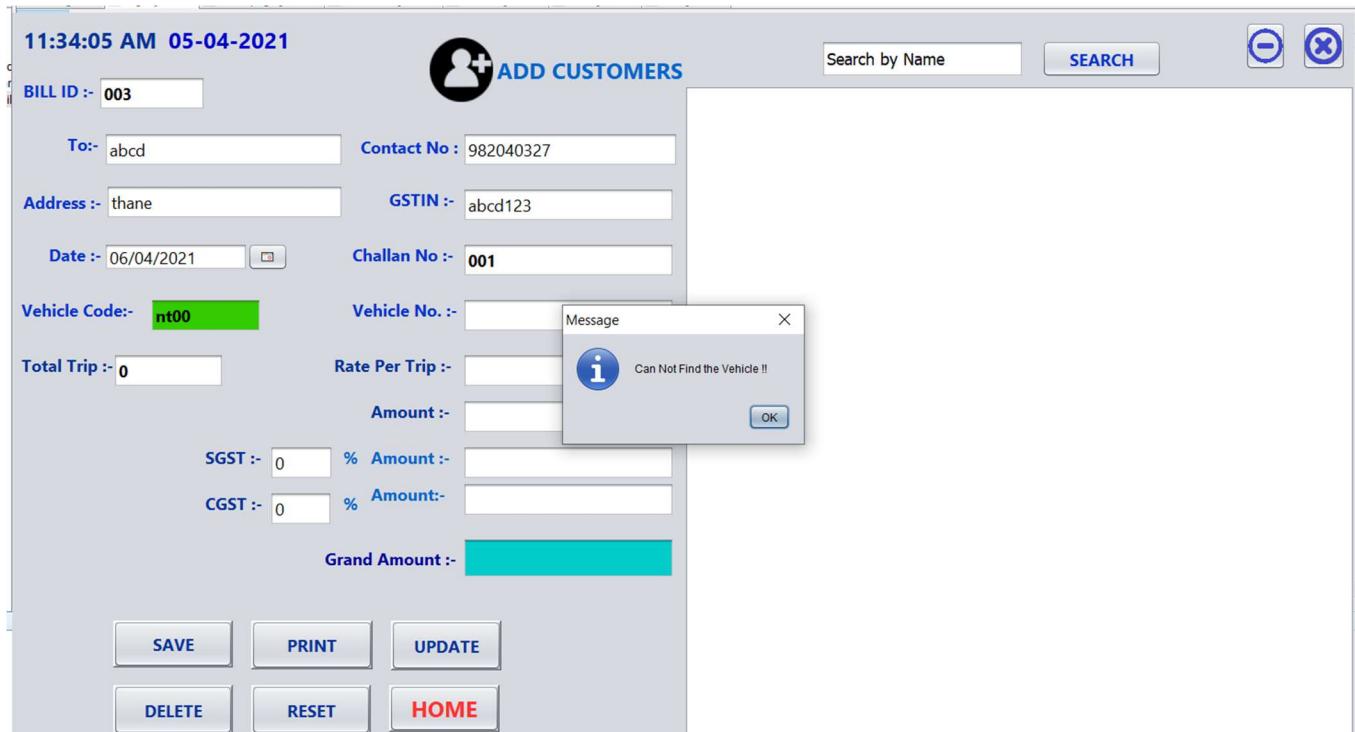
## 9) If Search Record Not Found



## 10) Login username and password are not matched



## 11) if Vehicle code not Found



## 9) PROGRAM LIST

- a) Login.java
- b) homepage.java
- c) vehicle.java
- d) staff.java
- e) customer.java
- f) info.java

## 10) SOURCE CODE

### Home Page Code :

```
import javax.swing.JFrame;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in
Project Properties.
 *
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author milin
 */
public class homepage extends javax.swing.JFrame {

    /**
     * Creates new form homepage
}
```

```
*/  
public homepage() {  
    initComponents();  
}  
/**  
 * This method is called from within the constructor to  
initialize the form.  
 * WARNING: Do NOT modify this code. The content of this  
method is always  
 * regenerated by the Form Editor.  
 */  
@SuppressWarnings("unchecked")  
// <editor-fold defaultstate="collapsed" desc="Generated  
Code">  
private void initComponents() {  
  
    jPanel1 = new javax.swing.JPanel();  
    jButton1 = new javax.swing.JButton();  
    jButton2 = new javax.swing.JButton();  
    jButton3 = new javax.swing.JButton();  
    INFO = new javax.swing.JButton();  
    jButton4 = new javax.swing.JButton();  
    jButton6 = new javax.swing.JButton();
```

```
jButton7 = new javax.swing.JButton();
jLabel2 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setUndecorated(true);
getContentPane().setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

jPanel1.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));
jPanel1.setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

jButton1.setFont(new java.awt.Font("Segoe UI", 1, 24));
// NOI18N

jButton1.setForeground(new java.awt.Color(51, 51,
255));

jButton1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/add_custom
er-removebg-preview.png"))); // NOI18N

jButton1.setText("CUSTOMERS");
```

```
    jButton1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.Bevel
Border.RAISED));

    jButton1.addActionListener(new
java.awt.event.ActionListener() {

        public void
actionPerformed(java.awt.event.ActionEvent evt) {

            jButton1ActionPerformed(evt);

        }

    });

    jPanel1.add(jButton1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(50, 80, 259,
114));

    jButton2.setFont(new java.awt.Font("Segoe UI", 1, 24));
// NOI18N

    jButton2.setForeground(new java.awt.Color(0, 51, 255));

    jButton2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/jcbsmall-
removebg-preview (1).png"))); // NOI18N

    jButton2.setText("VEHICLES");

    jButton2.setBorder(javax.swing.BorderFactory.createBevelBo
rder(javax.swing.border.BevelBorder.RAISED));
```

```
    jButton2.addActionListener(new
java.awt.event.ActionListener() {
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jPanel1.add(jButton2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(350, 80, 260,
114));

jButton3.setFont(new java.awt.Font("Segoe UI", 1, 24));
// NOI18N

jButton3.setForeground(new java.awt.Color(0, 51, 255));
jButton3.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/add_staff-
removebg-preview.png"))); // NOI18N

jButton3.setText("STAFF");

jButton3.setBorder(javax.swing.BorderFactory.createBevelBo
rder(javax.swing.border.BevelBorder.RAISED));

jButton3.addActionListener(new
java.awt.event.ActionListener() {
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton3ActionPerformed(evt);

    }

});

jPanel1.add(jButton3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(660, 80, 260,
114));

INFO.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

INFO.setForeground(new java.awt.Color(0, 51, 204));
INFO.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/info-
removebg-preview.png"))); // NOI18N

INFO.setText("INFO ");

INFO.setBorder(javax.swing.BorderFactory.createBevelBorde
r(javax.swing.border.BevelBorder.RAISED));

INFO.addActionListener(new
java.awt.event.ActionListener() {

    public void
actionPerformed(java.awt.event.ActionEvent evt) {

        INFOActionPerformed(evt);

    }

});
```

```
jPanel1.add(INFO, new  
org.netbeans.lib.awtextra.AbsoluteConstraints(350, 230, 260,  
107));  
  
getContentPane().add(jPanel1, new  
org.netbeans.lib.awtextra.AbsoluteConstraints(580, 480, 950,  
380));  
  
jButton4.setFont(new java.awt.Font("Segoe UI", 1, 18));  
// NOI18N  
  
jButton4.setForeground(new java.awt.Color(0, 51, 255));  
  
jButton4.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/logout.png"))  
); // NOI18N  
  
jButton4.setText("LOGOUT");  
  
jButton4.addActionListener(new  
java.awt.event.ActionListener() {  
  
    public void  
actionPerformed(java.awt.event.ActionEvent evt) {  
  
        jButton4ActionPerformed(evt);  
  
    }  
  
});  
  
getContentPane().add(jButton4, new  
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 540, 240,  
70));
```

```
jButton6.setBackground(new java.awt.Color(204, 204,
204));

    jButton6.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/close
lgo.png"))); // NOI18N

    jButton6.setText("\n\n");
    jButton6.setBorder(null);
    jButton6.setBorderPainted(false);
    jButton6.addActionListener(new
java.awt.event.ActionListener() {

    public void
actionPerformed(java.awt.event.ActionEvent evt) {

        jButton6ActionPerformed(evt);

    }

});

    getContentPane().add(jButton6, new
org.netbeans.lib.awtextra.AbsoluteConstraints(1490, 10, 90,
50));

jButton7.setBackground(new java.awt.Color(204, 204,
204));
```

```
jButton7.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/minimize
logo.png"))); // NOI18N

jButton7.setBorderPainted(false);

jButton7.addActionListener(new
java.awt.event.ActionListener() {

    public void
actionPerformed(java.awt.event.ActionEvent evt) {

        jButton7ActionPerformed(evt);

    }

});

getContentPane().add(jButton7, new
org.netbeans.lib.awtextra.AbsoluteConstraints(1400, 10, 80,
50));

jLabel2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/welcome
page-1.jpg"))); // NOI18N

getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1600,
900));

pack();

setLocationRelativeTo(null);
```

```
// </editor-fold>

private void
jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
    customer customer = new customer();
    customer.setVisible(true);
    this.setVisible(false);

}

private void
jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
    login login = new login();
    login.setVisible(true);
    this.setVisible(false);

}

private void
jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
    JFrame frame = new JFrame("EXIT");
}
```

```
    if(JOptionPane.showConfirmDialog(frame,"Confirm if
you want to CLOSE","EXIT",
JOptionPane.YES_NO_CANCEL_OPTION)== JOptionPane.YES_
NO_OPTION)

    {

        System.exit(0);

    }

}

private void
jButton7ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
    this.setExtendedState(JFrame.ICONIFIED);
}

private void
jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    vehicle Vehicle = new vehicle();
    Vehicle.setVisible(true);
    this.setVisible(false);
}
```

```
}
```

```
private void  
jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    // TODO add your handling code here:  
  
    staff st = new staff();  
  
    this.setVisible(false);  
  
    st.setVisible(true);  
  
}
```

```
private void  
INFOActionPerformed(java.awt.event.ActionEvent evt) {  
  
    // TODO add your handling code here:  
  
    info Info = new info();  
  
    this.setVisible(false);  
  
    Info.setVisible(true);  
  
}
```

```
/**
```

```
* @param args the command line arguments
```

```
*/  
public static void main(String args[]) {  
    /* Set the Nimbus look and feel */  
    //<editor-fold defaultstate="collapsed" desc=" Look and  
    feel setting code (optional) ">  
    /* If Nimbus (introduced in Java SE 6) is not available,  
    stay with the default look and feel.  
    * For details see  
    http://download.oracle.com/javase/tutorial/uiswing/lookand  
    feel/plaf.html  
    */  
    try {  
        for (javax.swing.UIManager.LookAndFeelInfo info :  
            javax.swing.UIManager.getInstalledLookAndFeels()) {  
            if ("Nimbus".equals(info.getName())) {  
  
                javax.swing.UIManager.setLookAndFeel(info.getClassName())  
;  
                break;  
            }  
        }  
    } catch (ClassNotFoundException ex) {
```

```
java.util.logging.Logger.getLogger(homepage.class.getName())
).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(homepage.class.getName())
).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(homepage.class.getName())
).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException
ex) {

java.util.logging.Logger.getLogger(homepage.class.getName())
).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        new homepage().setVisible(true);

    }
})
```

```
    });
}

// Variables declaration - do not modify
private javax.swing.JButton INFO;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton6;
private javax.swing.JButton jButton7;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
// End of variables declaration

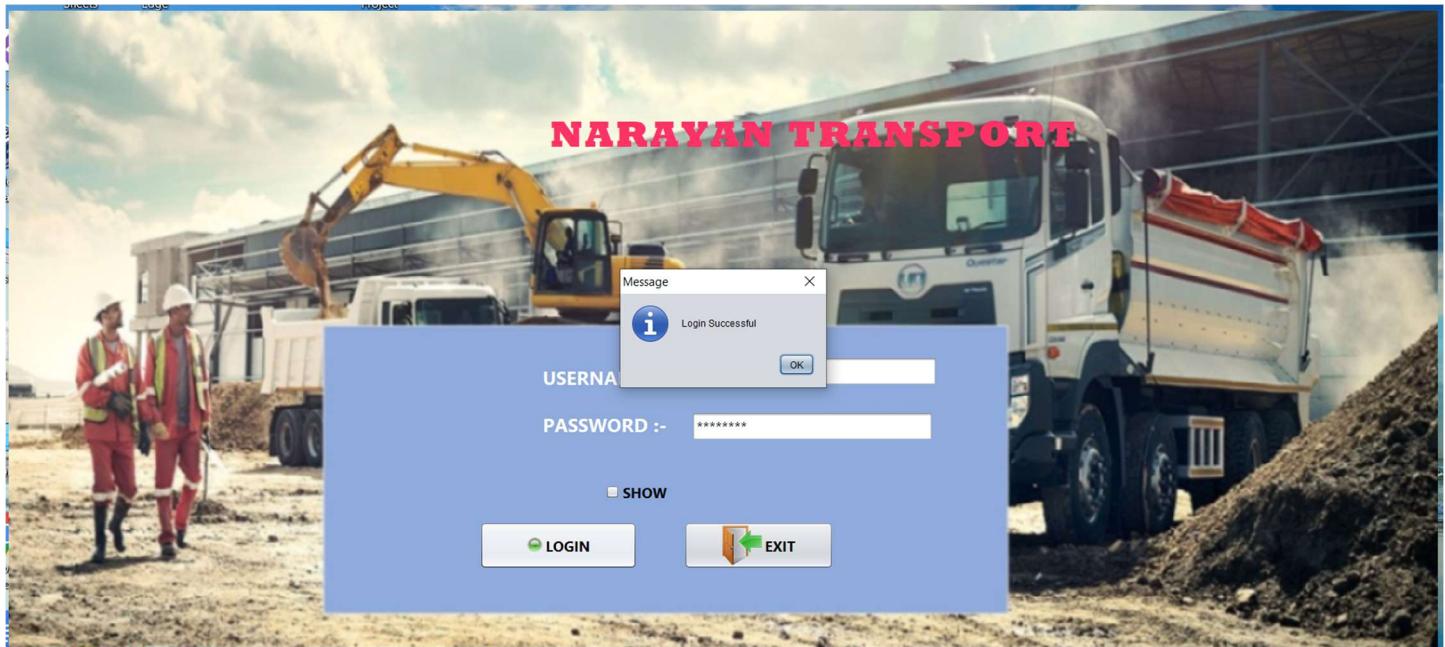
}
```

**ALL PROJECT SOURCE CODE GIVEN IN THE FOLLOWING  
GOOGLE DRIVE LINK**

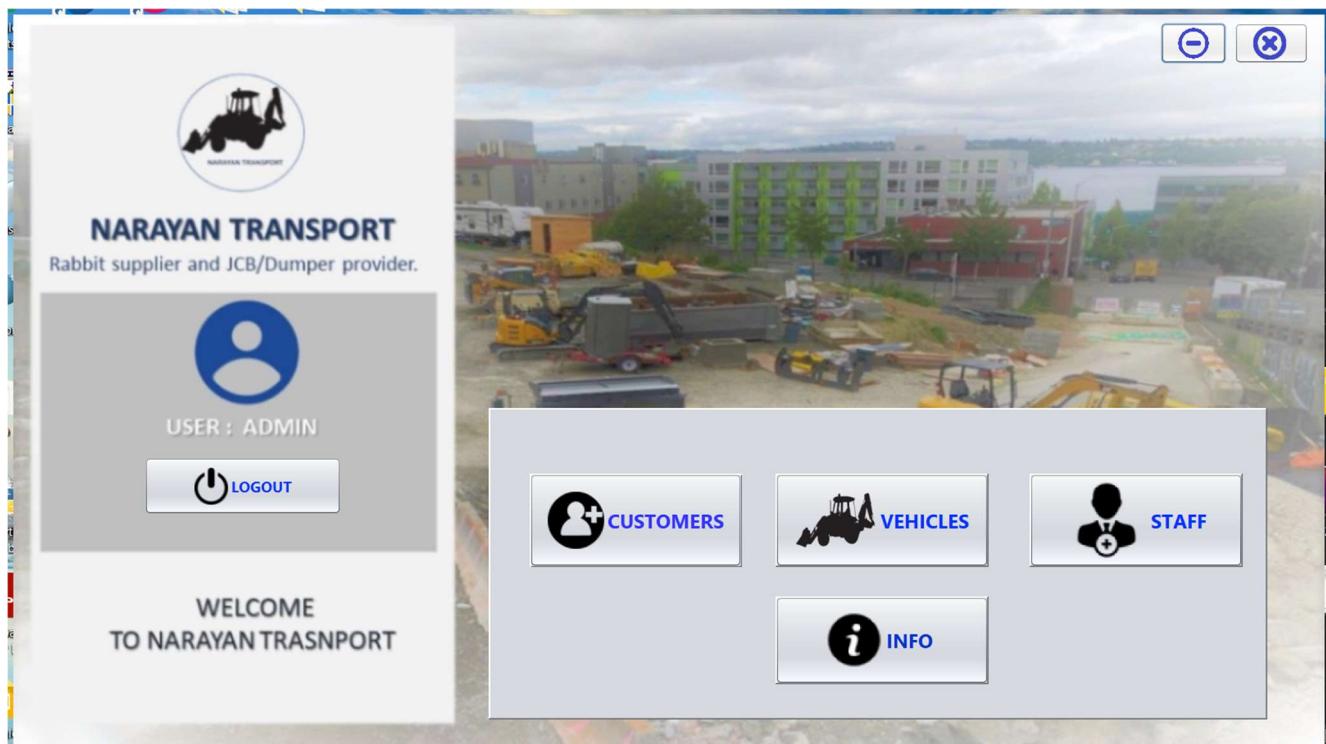
[https://drive.google.com/drive/folders/1An9guiQLJk35vHE-  
WhvdjM1YBwVeSb?usp=sharing](https://drive.google.com/drive/folders/1An9guiQLJk35vHE-WhvdjM1YBwVeSb?usp=sharing)

## 11) RESULTS

1) Login Page ,If username and password are matched



2) After Login Successfully shows Home Page



### 3)After Save Customer Bill

11:34:59 AM 05-04-2021

### ADD CUSTOMERS

**BILL ID :-** 003

**To:-** abcd **Contact No :** 9820403271

**Address :-** thane **GSTIN :-** abcd123

**Date :-** 06/04/2021 **Challan No :-** 001

**Vehicle Code:-** nt001 **Vehicle No. :-** MH02GN454

**Total Trip :-** 2 **Rate Per Trip :-** 5000

**SGST :-** 18 % **Amount :-** 1800

**CGST :-** 18 % **Amount:-** 1800

+
-
X

i
RECORD SAVED !!!!
OK

**Grand Amount :-** 13600

SAVE
PRINT
UPDATE

DELETE
RESET
HOME

4) After Print the Record

11:35:26 AM 05-04-2021

### ADD CUSTOMERS

|  |   |  |
|--|---|--|
| BILL ID :-   | <input type="text" value="003"/>  |  <b>SEARCH</b>  |
| To :-  | <input type="text" value="abcd"/>   | Contact No :- <input type="text" value="9820403271"/>  |
| Address :-   | <input type="text" value="thane"/>  | GSTIN :- <input type="text" value="abcd123"/>  |
| Date :-  | <input type="text" value="06/04/2021"/>  | Challan No :- <input type="text" value="001"/>   |
| Vehicle Code:-   | <input type="text" value="nt001"/>  | Vehicle No. :- <input type="text" value="MH02GN454"/>                 |
| Total Trip :-  | <input type="text" value="2"/>  | Rate Per Trip :- <input type="text" value="5000"/>  Record Printed!!! |
| SGST :-  | <input type="text" value="18"/>   | % Amount :- <input type="text" value="1800"/>  |
| CGST :-  | <input type="text" value="18"/>   | % Amount:- <input type="text" value="1800"/>   |
| Grand Amount :- <b>13600</b>   |   |  |
| <input type="button" value="SAVE"/> <input type="button" value="PRINT"/> <input type="button" value="UPDATE"/> |   |  |
| <input type="button" value="DELETE"/> <input type="button" value="RESET"/> <input type="button" value="HOME"/> |   |  |

NARAYAN TRASPORT

Earth Filling, Specialist in Rabbit & Murum, JCB,Dumper Supplier  
Sai Niketan Co-op.Hsg Society,Nr.Omega English High School,  
Khindipada,Bhandup(w)400082.

---

Bill Id :003                          05-04-2021                  11:35:04 AM

---

Customer Name-abcd              Mob-9820403271  
Address-thane  
GSTIN :-abcd123

---

Tue Apr 06 11:33:48 IST 2021

|        |           |
|--------|-----------|
| in No. | 001       |
| s No.  | MH02GN454 |
| rip    | 5000      |
| rip    | 2         |
| ment   | 10000     |

---

OK

|     |         |         |
|-----|---------|---------|
| 18% | Amount: | 1800.rs |
| 18% | Amount: | 1800.rs |

---

Grand Amount: 13600 .rs

---

Bank: ABCD Bank  
A/C No: xxxxxxxxxx  
IFSC no: XXXX123  
GSTIN No: ABCDEF123456

---

NARAYAN TRANSPORT

---

THANK YOU !!!!

## 5)The actual bill format

NARAYAN TRASNPORT

Earth Filling, Specialist in Rabbit & Murum, JCB,Dumper Supplier  
Sai Niketan Co-op.Hsg Society,Nr.Omega English High School,  
Khindipada,Bhandup(w)400082.

=====

|              |            |             |
|--------------|------------|-------------|
| Bill Id :003 | 04-04-2021 | 03:25:41 PM |
|--------------|------------|-------------|

=====

|                       |                 |
|-----------------------|-----------------|
| Customer Name:-SANJAY | Mob:-8369704917 |
| Address:-PATALIPADA   |                 |
| GSTIN :-ABCD0000      |                 |

=====

|             |                              |
|-------------|------------------------------|
| Date        | Mon Apr 05 15:24:10 IST 2021 |
| Challan No. | 001                          |
| Vehicle No. | MH02GN4545                   |
| Rate/Trip   | 5000                         |
| Total Trip  | 2                            |
| Amount      | 10000                        |

=====

|        |     |          |         |
|--------|-----|----------|---------|
| SGST : | 18% | Amount : | 1800.rs |
| CGST : | 18% | Amount : | 1800.rs |

=====

|                |           |
|----------------|-----------|
| Grand Amount : | 13600 .rs |
|----------------|-----------|

=====

|                        |
|------------------------|
| Bank : ABCD Bank       |
| A/C No: xxxxxxxxxxxx   |
| IFSC no: XXXX123       |
| GSTIN No: ABCDEF123456 |

NARAYAN TRANSPORT

-----

THANK YOU !!!!

## 6) If the Bill Deleted successfully

11:37:15 AM 05-04-2021

### ADD CUSTOMERS

BILL ID :- 003

To:- MILIND PATHARE Contact No : 9820403271

Address :- thane GSTIN :- abcd123

Date :- 06/04/2021 Challan No :- 001

Vehicle Code:- nt001 Vehicle No. :- MH02GN454

Total Trip :- 2 Rate Per Trip :- 5000

Amount :- 10000

SGST :- 18 % Amount :- 1800

CGST :- 18 % Amount :- 1800

Grand Amount :- 13600

Message: Record Deleted!!!

SAVE PRINT UPDATE

DELETE RESET HOME

## 7) Add vehicle

12:39:07 PM 02-04-2021

### ADD VEHICLE

ID :- 002

PRODUCT CODE :- NT002

VEHICLE NUMBER :- MH04AB1122

TYPE :- DUMPER

MODEL :- AKJFEK789

CHESSIS NO. :- EEJHIJ5445

ENGINE NO. :- WFEIH8793

Message: Vehicle Added!!!

SAVE UPDATE

DELETE RESET

HOME

## 8)Vehicle Updated

12:39:27 PM 02-04-2021

### ADD VEHICLE

ID :- 002

PRODUCT CODE :- NT002

VEHICLE NUMBER :- MH04AB1122

TYPE :- CRANE

MODEL :- AKJFEK789

CHESSIS NO. :- EEJHIJ5445

ENGINE NO. :- WFEIH8793

**SAVE** **UPDATE**

**DELETE** **RESET**

**HOME**

| ID  | CODE  | NUMBER     | TYPE   | MODEL     | CHESSIS    | ENGIN     |
|-----|-------|------------|--------|-----------|------------|-----------|
| 001 | NT001 | MH02GN4545 | JCB    | suzuki    | FIGKR654   | 545EFE    |
| 002 | NT002 | MH04AB1122 | DUMPER | AKJFEK789 | EEJHIJ5445 | WFEIH8793 |

Message

**i** Vehicle Updated!!

**OK**

Search by Code **SEARCH** **(-)** **(X)**

## 9)Vehicle Deleted

12:39:36 PM 02-04-2021

### ADD VEHICLE

ID :- 002

PRODUCT CODE :- NT002

VEHICLE NUMBER :- MH04AB1122

TYPE :- CRANE

MODEL :- AKJFEK789

CHESSIS NO. :- EEJHIJ5445

ENGINE NO. :- WFEIH8793

**SAVE** **UPDATE**

**DELETE** **RESET**

**HOME**

| ID  | CODE  | NUMBER     | TYPE  | MODEL     | CHESSIS    | ENGIN     |
|-----|-------|------------|-------|-----------|------------|-----------|
| 001 | NT001 | MH02GN4545 | JCB   | suzuki    | FIGKR654   | 545EFE    |
| 002 | NT002 | MH04AB1122 | CRANE | AKJFEK789 | EEJHIJ5445 | WFEIH8793 |

Message

**i** Vehicle Deleted!!

**OK**

Search by Code **SEARCH** **(-)** **(X)**

## 10)Member Added

12:42:19 PM 02-04-2021

ID :- 003

FIRST NAME :- MILIND

MIDDLE NAME :- SANJAY

LAST NAME :- PATHARE

ADDRESS :- THANE

GENDER :- SELECT

MOBILE :- 9820403271

Alternate MOB :- 8369704917

EMAIL ID :- milindpathare@gmail.com

**SAVE**    **UPDATE**

**DELETE**    **RESET**

**HOME**

**ADD STAFF**

Search by First Name **SEARCH**

 ADD STAFF

| ID  | FName  | MName  | LName   | address | gender | mobile     | alternate  | email                   |
|-----|--------|--------|---------|---------|--------|------------|------------|-------------------------|
| 002 | sumit  | sanjay | pathare | Thane   | MALE   | 83695      | 654821     |                         |
| 003 | MILIND | SANJAY | PATHARE | THANE   | SELECT | 9820403271 | 8369704917 | milindpathare@gmail.com |

Message  One Member is Added!! **OK**

## 11)Member Updated

12:42:40 PM 02-04-2021

ID :- 003

FIRST NAME :- MILIND

MIDDLE NAME :- SANJAY

LAST NAME :- PATHARE

ADDRESS :- B N BANDODAKR

GENDER :- SELECT

MOBILE :- 9820403271

Alternate MOB :- 8369704917

EMAIL ID :- milindpathare@gmail.com

**SAVE**    **UPDATE**

**DELETE**    **RESET**

**HOME**

**ADD STAFF**

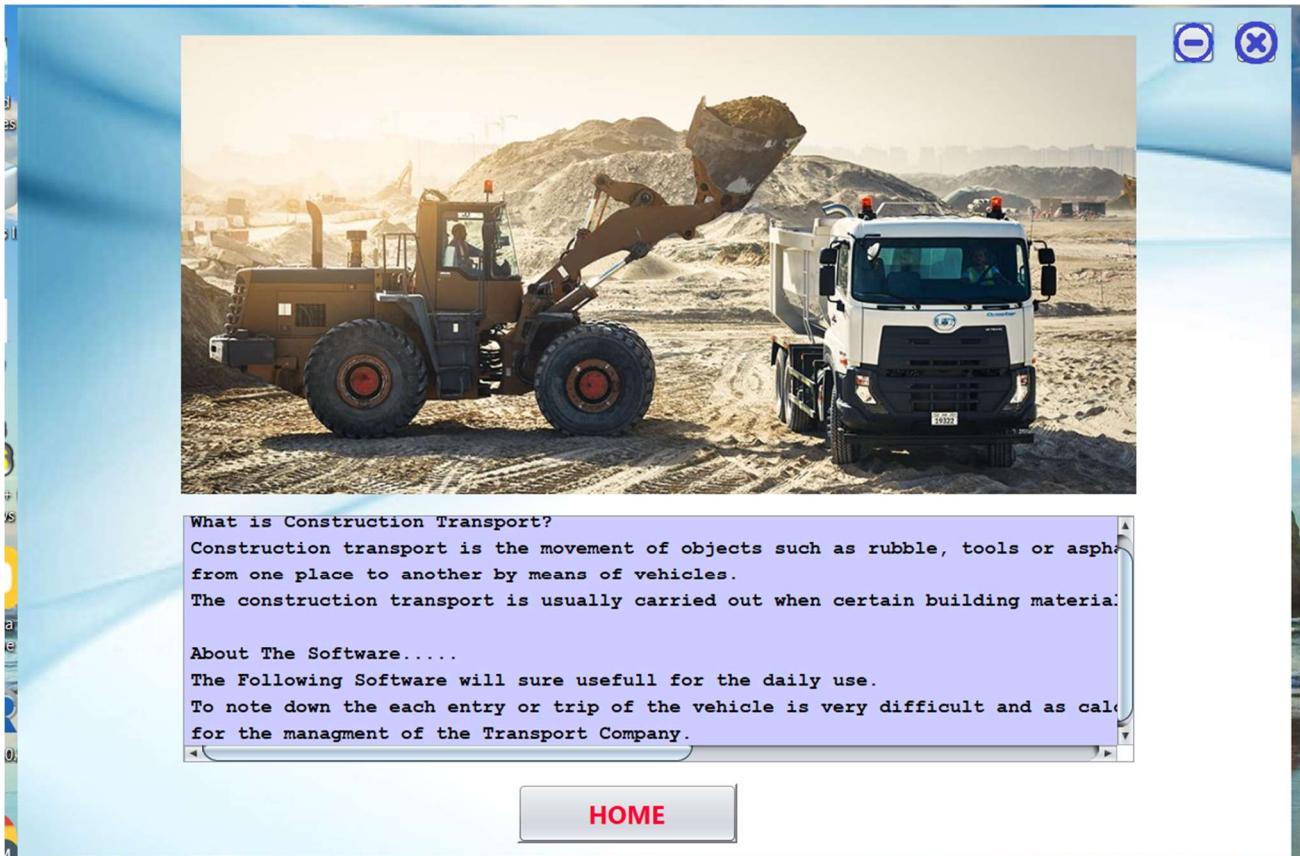
Search by First Name **SEARCH**

 ADD STAFF

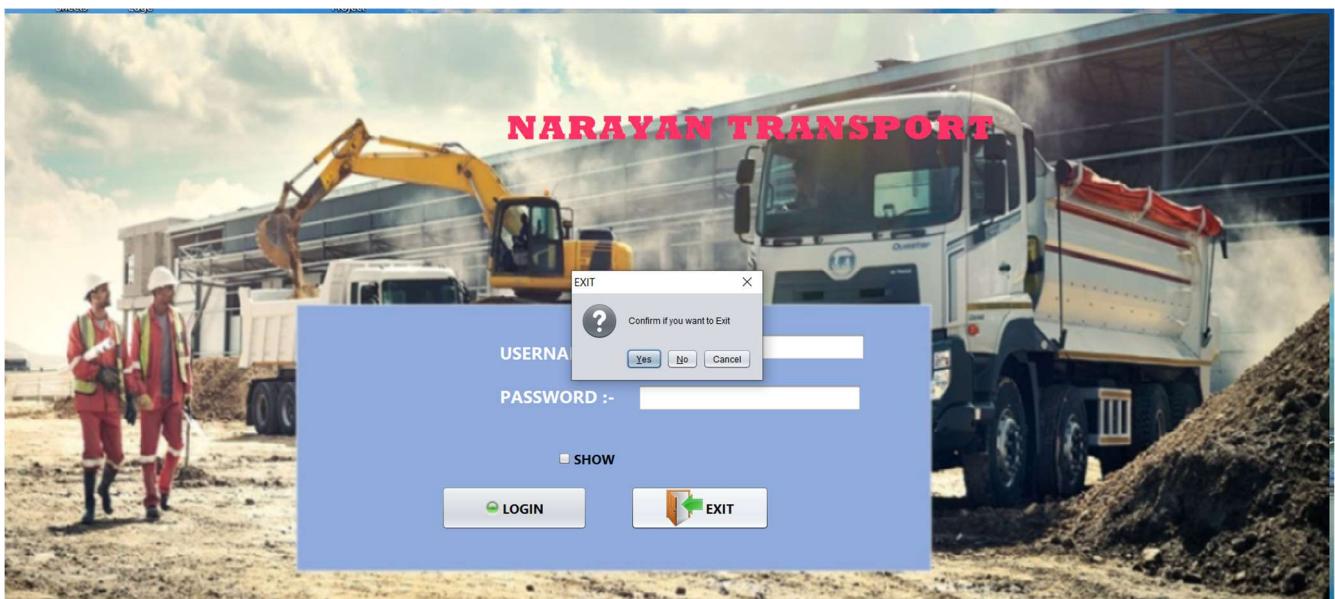
| ID  | FName  | MName  | LName   | address | gender | mobile     | alternate  | email                   |
|-----|--------|--------|---------|---------|--------|------------|------------|-------------------------|
| 002 | sumit  | sanjay | pathare | Thane   | MALE   | 83695      | 654821     |                         |
| 003 | MILIND | SANJAY | PATHARE | THANE   | SELECT | 9820403271 | 8369704917 | milindpathare@gmail.com |

Message  Member Updated!! **OK**

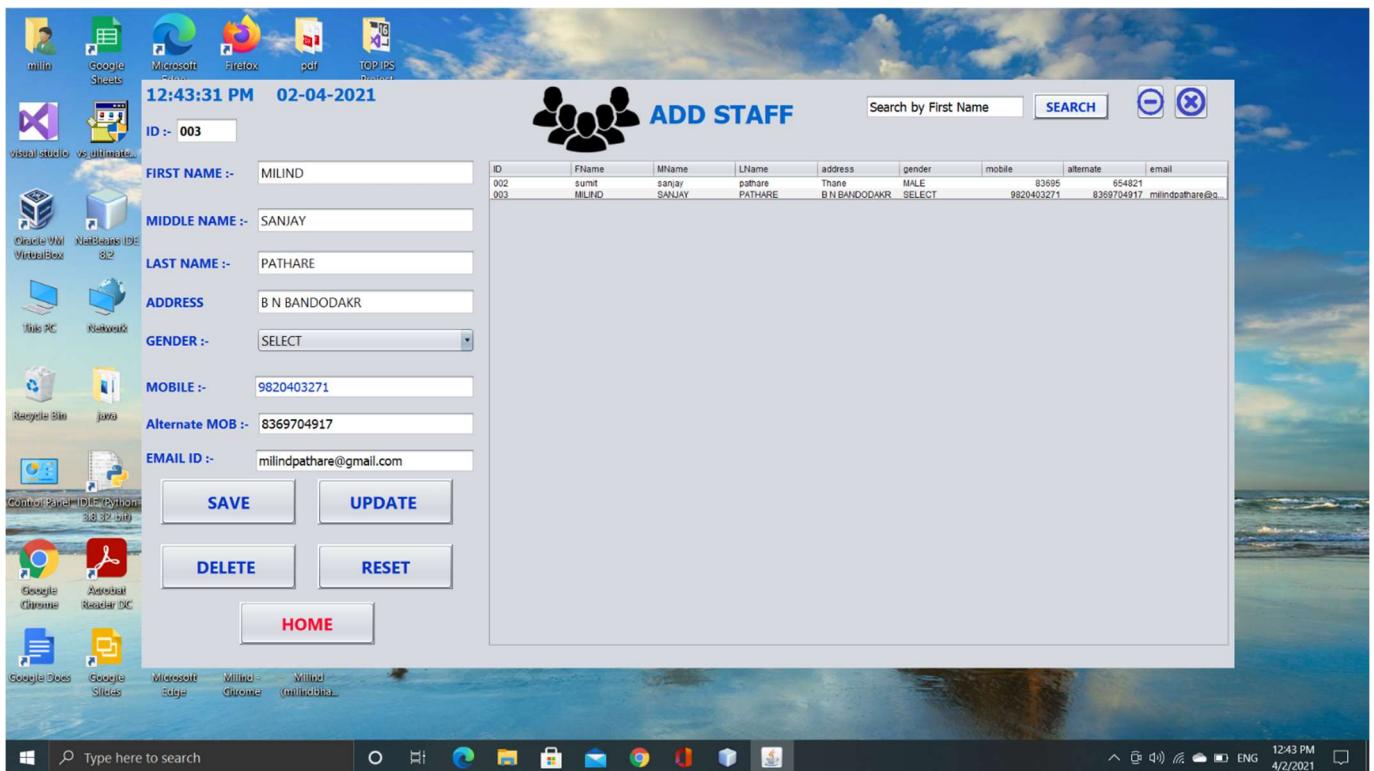
## 12) Information Page



## 13) Ask for Close the application



## 14) After Search Record



## **12. TOOLS USED FOR DEVELOPING THE CONSTRUCTIN TRANSPORT MANAGEMENT SYSTEM**

### **12.1 NETBEANS IDE Version -8.2**

NetBeans IDE is a free, open source, integrated development environment (IDE) that enables you to develop desktop, mobile and web applications. The IDE supports application development in various languages, including Java, HTML5, PHP and C++. The IDE provides integrated support for the complete development cycle, from project creation through debugging, profiling and deployment. The IDE runs on Windows, Linux, Mac OS X, and other UNIX-based systems.



The IDE provides comprehensive support for JDK 7 technologies and the most recent Java enhancements. It is the first IDE that provides support for JDK 7, Java EE 7, and JavaFX 2. The IDE fully supports Java EE using the latest standards for Java, XML, Web services, and SQL and fully supports the GlassFish Server, the reference implementation of Java EE.

## **Understanding the Source Editor Features**

The Source Editor is a full-featured text editor that is integrated with the GUI Builder, the compiler, the debugger, and other parts of the IDE. You can generally open the Source Editor by double-clicking a node in the Projects window, Files window, or Navigator window.

The top of the Source Editor has a tab for each open document. Each tab shows the name of the document. The name of the document is displayed in bold if the document has been modified and has not been saved. You can right-click the tab to open a popup menu that lists commands that can be invoked on the tab.

If multiple files are open, you can split the Source Editor view by clicking and dragging the tab. As you drag to different parts of the editing area, you see a red outline that shows you the location of the new window. When one of these boxes appears, you can drop the document and split the pane. You must close the split file if you want the editor to return to its unsplit state.

## 12.2 WAMP SERVER



Stands for "Windows, Apache, MySQL, and PHP." WAMP is a variation of LAMP for Windows systems and is often installed as a software bundle (Apache, MySQL, and PHP). It is often used for web development and internal testing, but may also be used to serve live websites.

The most important part of the WAMP package is Apache (or "Apache HTTP Server") which is used run the web server within Windows. By running a local Apache web server on a Windows machine, a web developer can test webpages in a web browser without publishing them live on the Internet.

WAMP also includes MySQL and PHP, which are two of the most common technologies used for creating dynamic websites. MySQL is a high-speed database, while PHP is a scripting language that can be used to access data from the database. By installing these two components locally, a developer can build and test a dynamic website before publishing it to a public web server.

While Apache, MySQL, and PHP are open source components that can be installed individually, they are usually installed together. One popular package is called "WampServer," which provides a user-friendly way to install and configure the "AMP" components on Windows.

**NOTE:** The "P" in WAMP can also stand for either Perl or Python, which are other scripting languages. The Mac version of LAMP is known as MAMP.

## **13. MAINTENANCE AND FUTURE ENHANCEMENTS**

### **13.1 Disadvantages of Existing System :-**

In the existing system, all work and calculations are done by manually. There is most of chances to misplace the all records.

- There is no Security for records.
- Transparency is very less.
- All Calculations are done by manually.
- There is no thing to Update the Particular records.
- And the most important thing is that chances to misplace the record books.

The main aim of the proposed system is that to develop improved facilities to the existing system.

There are some functionality are allowed to the proposed management system.

- Save the More Records.
- Easily Updated.
- Time Consuming.
- Automatic calculations.
- Saving the all information about the staff members.
- User friendly and interactive.
- More Secure the Data.
- Ensure the Data accuracy.

**At the end it is concluded that we have made effort on following points...**

- We understand the problem domain and produce a model of the system, which Describes operations that can be performed on the system.
- We describe the requirement Specifications of the system and the actions that can be done on these things.
- We define the problem on which we are working in the project.
- Finally, the system is implemented and tested according to test cases.

**Future enhancement of the software will have the following points:-**

- Maintain attendance of staff Members.
- Maintain the more password security level.
- Provide the more updated and enhance level functionality in the system.

**Limitations of the Construction Transport Management System..**

- In the construction Transport management system we cannot make the online payment method of the Bill.
- Application dose not maintain the attendance system of the daily staff members.

## **14. REFERENCE**

14.1 [www.google.com](http://www.google.com)

14.2 [www.youtube.com](http://www.youtube.com)