UNIVERSITY OF MUMBAI

A DISSERTATION REPORT ON

"TRANSPORT MANAGEMENT SYSTEM"

SUBMITTED IN PARTIAL FULFILMENT FOR

THE REQUIREMENTS OF THE DEGREE

BACHELOR OF ENGINEERING

IN

COMPUTER ENGINEERING

GROUP MEMBERS

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DEPARTMENT OF COMPUTER ENGINEERING

G.V. ACHARYA INSTITUTE OF ENGINEERING AND TECHNOLOGY

UNIVERSITY OF MUMBAI

2020-21

DECLARATION

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Harshal Welekar(73)_____

Dipak Zad(74)_____

Date :

Place : SHELU

PROJECT REPORT APPROVAL FOR T.E.

This project report entitled **"TRANSPORT MANAGEMENT SYSTEM"** by **"Abhishek Vartak" (70), "Ravina Vishe" (71), "Ritvik Warade" (72)**, **"Harshal Welekar" (73), "Dipak Zad" (74)** is approved for the degree of **"Bachelor of Computer Engineering".**

Examiners

1._____

2. _____

Date :

Place :SHELU

CERTIFICATE

This is to certify that the project entitled **"TRANSPORT MANAGEMENT SYSTEM"** is a bonafide work of "**Abhishek Vartak" (70), "Ravina Vishe" (71),** "**Ritvik Warade" (72), "Harshal Welekar"(73), "Dipak Zad"(74)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **"Undergraduate "** in **"Bachelor of Computer Engineering".**

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Department of Computer Engineering	G.V.A.I.E.T
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- Group Members
- Abhishek Vartak (70)
- Ravina Vishe (71)
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ABSTRACT

The objective of this application is to automate the details of transportation (pick and drop) services provided by an organization to its employees and to manage the related information in a convenient manner.The purpose is to design a system that allows one to manage the relevant information. This system allows the user view all information of services provided by the organization. The User can make a request to Administrator for cab. This system allows the user could make updation to cab request. This system allows the administrator to maintain and update all information of cab details. The cabs are assigned by administrator to user cab request. This system allows user to make complaint for service and the administrator take action on complaint. The informations of cab request details of day user and regular user are maintained by administrator and the administrator can view all or selected informations. The purpose to design the system that allows search and retrive related data easily..

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CHAPTER-1
INTRODCUTION

The objective of this application is to automate the details of transportation (pick and drop) services provided by an organization to its employees and to manage the related information in a convenient manner.The purpose is to design a system that allows one to manage the relevant information. This system allows the user view all information of services provided by the organization. The User can make a request to Administrator for cab. This system allows the user could make updation to cab request. This system allows the administrator to maintain and update all information of cab details. The cabs are assigned by administrator to user cab request. This system allows user to make complaint for service and the administrator take action on complaint. The informations of cab request details of day user and regular user are maintained by administrator and the administrator can view all or selected informations. The purpose to design the system that allows search and retrive related data easily..

EXISTING SYSTEM:

The present systems organize the entire information in file and ledgers. It is difficult to search and retrieve relevant data, when required. Its is difficult to view any particular information quickly. Lot of time is need to search the data.

Often the data is mismanaged and this leads to loss of data.It is difficult to track the vehicle details.

PROPOSED SYSTEM:

The proposed system is a web based application which maintains a centralized repository of all necessary information.This allows the users to access the information easily.The system allows to track and manage all information through well-defined interfaces.

Administrator involved the followings:

Can Add/update/delete route details in online.

Can perform action for cab request.

Can perform action for user complaint.

User involved the followings

Can give cab request to administrator.

Can give complaint about cab request.

Can give feedback about services.

MODULE DESCRIPTION:

Number of Modules

After careful analysis the system has been identified to have the following modules.

1. Administrator Module
    - Vehicle module
    - Route module
    - Cab asign module
    - Report module

2. User module

CHAPTER-2

1.Administrator Module:

This module provides administrator related functionality. Administrator can add ,delete ,update and view details of vehicles,routes. The administrator maintain the details of employees who avail the transportation service.

- **Vehicle Module:**

The administrator consist the vehicle module. This module maintains the details of vehicles and cabs available for transportation. For each vehicle details such as route number,cab number,vehicle type,capacity,availability will be stored. Administrator can manage the vehicle information.

- **Route Module:**

The administrator consist the route module. This module maintains the details of all routes available for transportation. For each route details such as route number, stoping points,pickup time for each stop points will be stored. Administrator can manage the route information

- **Cab Asign Module**

The administrator consist the cab asign module. In this module the admin asign the cab for all user's cab request. If a cab is asigned for cab request , the availability of the cab is decreased. If a cab request is cancelled , the availability is increased.

- **Report Module:**

This module allows administrator to generate various reports based on different criteria such as user request details,route details,cab details. The user cab request details allows to

generate reports based on regular user cab request details and day user cab request details.

2.User Module

User can view all information about the route like cab details,time details,stop details.User can make request for cab and make update to the request.User get details about the cab after assigned by the Administrator.User can make complaint for the service and view the status about the complaint.User give feedback about the service.User can login and view the launching product details of desired product.User give feedback about services.

CHAPTER-3

Technical Platform

Software Specification:

- Operating System : Windows
- Technology : Java and J2EE
- Web Technologies : Html, JavaScript, CSS
- Web Server : XAMPP
- Database : SQLyog
- Java Version : J2SDK1.5

Hardware Specification:

- Hardware - Pentium
- Speed - 1.1 Ghz
- RAM - 1GB
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

Chapter-4

What is Java

Java is a class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible. It is a general-purpose programming language intended to let application developers write once, run anywhere (WORA),[16] meaning that compiled Java code can run on all platforms that support Java without the need for recompilation.[17] Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture. The syntax of Java is similar to C and C++, but has fewer low-level facilities than either of them. The Java runtime provides dynamic capabilities (such as reflection and runtime code modification) that are typically not available in traditional compiled languages. As of 2019, Java was one of the most popular programming languages in use according to GitHub particularly for client-server web applications, with a reported 9 million developers.

Java was originally developed by James Gosling at Sun Microsystems (which has since been acquired by Oracle) and released in 1995 as a core component of Sun Microsystems' Java platform. The original and reference implementation Java compilers, virtual machines, and class libraries were originally released by Sun under proprietary licenses. As of May 2007, in compliance with the specifications of the Java Community Process, Sun had relicensed most of its Java technologies under the GNU General Public License. Oracle offers its own HotSpot Java Virtual Machine, however the official reference implementation is the OpenJDK JVM which is free open source software and used by most developers and is the default JVM for almost all Linux distributions.

As of March 2021, the latest version is Java 16, with Java 11, a currently supported long-term support (LTS) version, released on September 25, 2018. Oracle released the last zero-cost public update for the legacy version Java 8 LTS in January 2019 for commercial use, although it will otherwise still support Java 8 with public updates for personal use indefinitely. Other vendors have begun to offer zero-cost builds of OpenJDK 8 and 11 that are still receiving security and other upgrades.

Oracle (and others) highly recommend uninstalling outdated versions of Java because of serious risks due to unresolved security issues.[21] Since Java 9, 10, 12, 13, 14, and 15 are no longer supported, Oracle advises its users to immediately transition to the latest version (currently Java 16) or an LTS release.

Chapter-5

Advantages

- Reduced costs for the business and the end customer.
- Improvement in visibility and security, especially in transit.
- Simplification of supply chain processes.
- Robust
- Convinient

Chapter-6

Programme Coding

Add Entry

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.text.*;
import javax.swing.*;
import java.io.*;
import java.sql.*;

public class AddEntry extends JInternalFrame {

   private JLabel lblBusNo,  lblRegNo,  lblModel,  lblCapacity,  lblDOP,  lblInsuranceStatus,
lblDOI,  lblDOIE;
   private JTextField txtBusNo,  txtRegNo,  txtModel,  txtCapacity,  txtIStatus;
   private JButton btnAddNew,  btnCancel,  btnClear,  btnNext;
   private JPanel fieldsPanel;
   private JPanel jPanel3;
   private JPanel buttonPanel;
   private JPanel jPanel5;
   private static JTextArea txtInfo = new JTextArea(15, 40);
   private Connection dbconn;
   private static String info;
   private DateButton date_bought;
   private DateButton date_ins;
   private DateButton date_expiry;
   private Date startDate;
   private Date endDate;

   public AddEntry() {
      super("New Bus Entry", false, true, false, true);
      setDefaultCloseOperation(javax.swing.JFrame.DISPOSE_ON_CLOSE);
      setResizable(false);
      setLayout(new BorderLayout());
      Dimension screen = Toolkit.getDefaultToolkit().getScreenSize();
      setLocation((screen.width - 500) / 2, ((screen.height - 350) / 2));

      lblBusNo = new JLabel("  Bus Number ");
      lblRegNo = new JLabel("  Reg Number ");
      lblModel = new JLabel("  Model ");
      lblCapacity = new JLabel("  Capacity ");
      lblDOP = new JLabel("  Date Purchased");
      lblInsuranceStatus = new JLabel("  Insurance Status");
      lblDOI = new JLabel("  Date Insured");
```

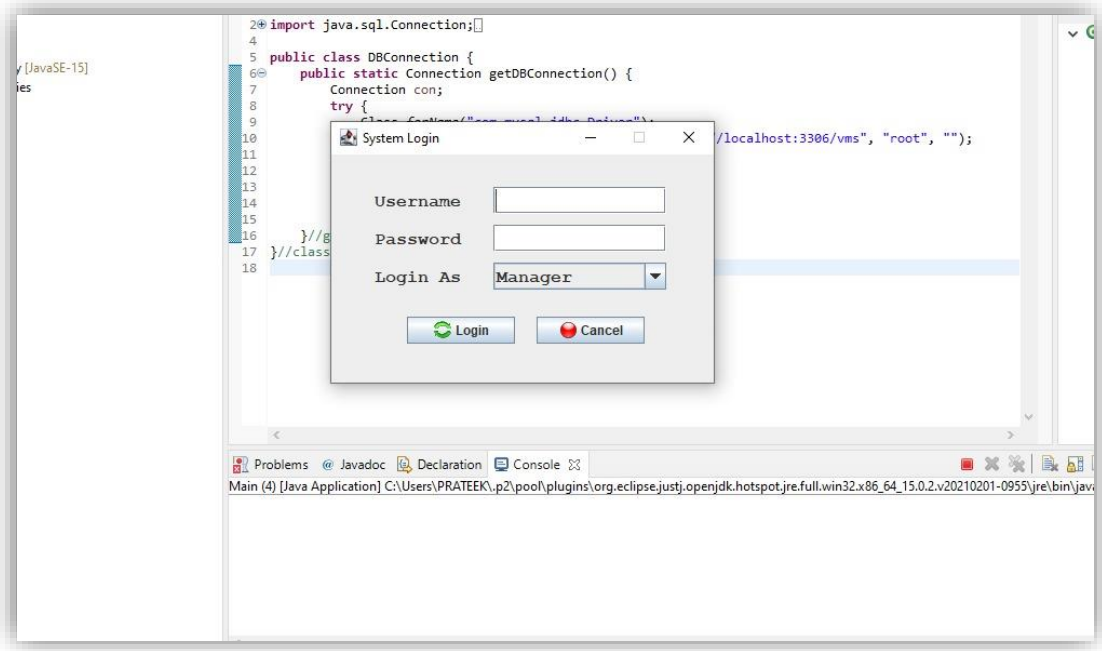
```
        lblDOIE = new JLabel("  Insurance Expiry Date");
        txtBusNo = new JTextField(10);
        txtRegNo = new JTextField(10);
        txtModel = new JTextField(10);
        txtCapacity = new JTextField(10);
        txtIStatus = new JTextField(10);
        txtBusNo.setForeground(Color.blue);
        btnAddNew = new JButton("Add Record", new
ImageIcon(ClassLoader.getSystemResource("Images/addnew.png")));
        btnCancel = new JButton("Cancel", new
ImageIcon(ClassLoader.getSystemResource("Images/exit.png")));
        btnClear = new JButton("Clear", new
ImageIcon(ClassLoader.getSystemResource("Images/clear.png")));
        date_bought = new DateButton();
        date_ins = new DateButton();
        date_expiry = new DateButton();

        date_ins.setForeground(Color.red);
        date_bought.setForeground(Color.red);
        date_expiry.setForeground(Color.red);

        fieldsPanel = new JPanel(new GridLayout(8, 2));
        buttonPanel = new JPanel(new FlowLayout());

        fieldsPanel.setPreferredSize(new Dimension(400, 250));
        fieldsPanel.add(lblBusNo);
        fieldsPanel.add(txtBusNo);
        fieldsPanel.add(lblRegNo);
        fieldsPanel.add(txtRegNo);
        fieldsPanel.add(lblModel);
        fieldsPanel.add(txtModel);
        fieldsPanel.add(lblCapacity);
        fieldsPanel.add(txtCapacity);
        fieldsPanel.add(lblDOP);
        fieldsPanel.add(date_bought);
        fieldsPanel.add(lblInsuranceStatus);
        fieldsPanel.add(txtIStatus);
        fieldsPanel.add(lblDOI);
        fieldsPanel.add(date_ins);
        fieldsPanel.add(lblDOIE);
        fieldsPanel.add(date_expiry);

        buttonPanel.add(btnAddNew);
        buttonPanel.add(btnCancel);
        buttonPanel.add(btnClear);

        getContentPane().add(fieldsPanel, BorderLayout.CENTER);
        getContentPane().add(buttonPanel, BorderLayout.PAGE_END);
```

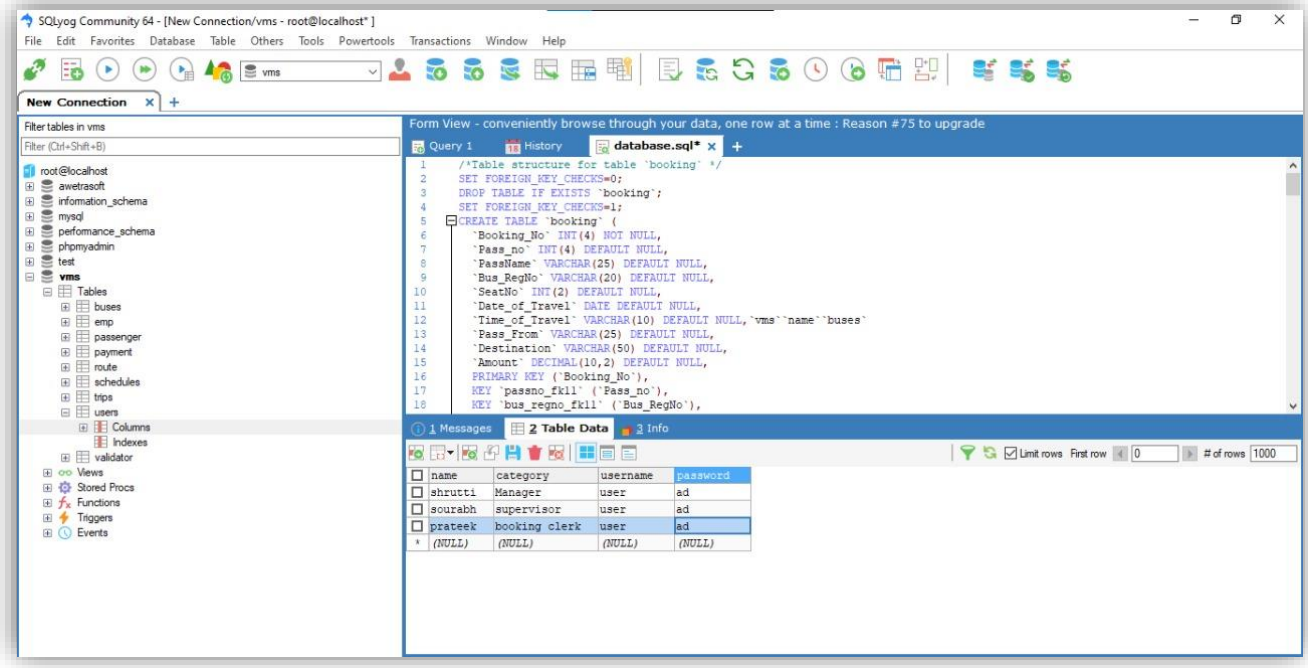
```
        pack();
        generator();

        btnAddNew.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                if (txtBusNo.getText() == null || txtBusNo.getText().equals("")) {
                    JOptionPane.showMessageDialog(null, "Enter bus number", "ERROR",
JOptionPane.ERROR_MESSAGE);
                    txtBusNo.requestFocus();
                    return;
                }

                if (txtRegNo.getText() == null || txtRegNo.getText().equals("")) {
                    JOptionPane.showMessageDialog(null, "Enter Reg Number", "ERROR",
JOptionPane.ERROR_MESSAGE);
                    txtRegNo.requestFocus();
                    return;
                }
                if (txtModel.getText() == null || txtModel.getText().equals("")) {
                    JOptionPane.showMessageDialog(null, " Model Field is required", "ERROR",
JOptionPane.ERROR_MESSAGE);
                    txtModel.requestFocus();
                    return;
                }
                if (txtCapacity.getText() == null || txtCapacity.getText().equals("")) {
                    JOptionPane.showMessageDialog(null, " Enter bus capacity", "ERROR",
JOptionPane.ERROR_MESSAGE);
                    txtCapacity.requestFocus();
                    return;
                }

                if (txtIStatus.getText() == null || txtIStatus.getText().equals("")) {
                    JOptionPane.showMessageDialog(null, "Insurance Status entry is required",
"ERROR", JOptionPane.ERROR_MESSAGE);
                    txtIStatus.requestFocus();
                    return;
                }
                try {
                    Statement stmt = DBConnection.getDBConnection().createStatement();

                    String sql = "INSERT INTO Buses (BusNo, Bus_RegNo, Model, Capacity,
DateBought,Insurance_Status,Date_Insured,Insurance_Expiry) VALUES ('" +
                            txtBusNo.getText() + "', '" +
                            txtRegNo.getText() + "', '" +
                            txtModel.getText() + "', '" +
                            txtCapacity.getText() + "', '" +
```

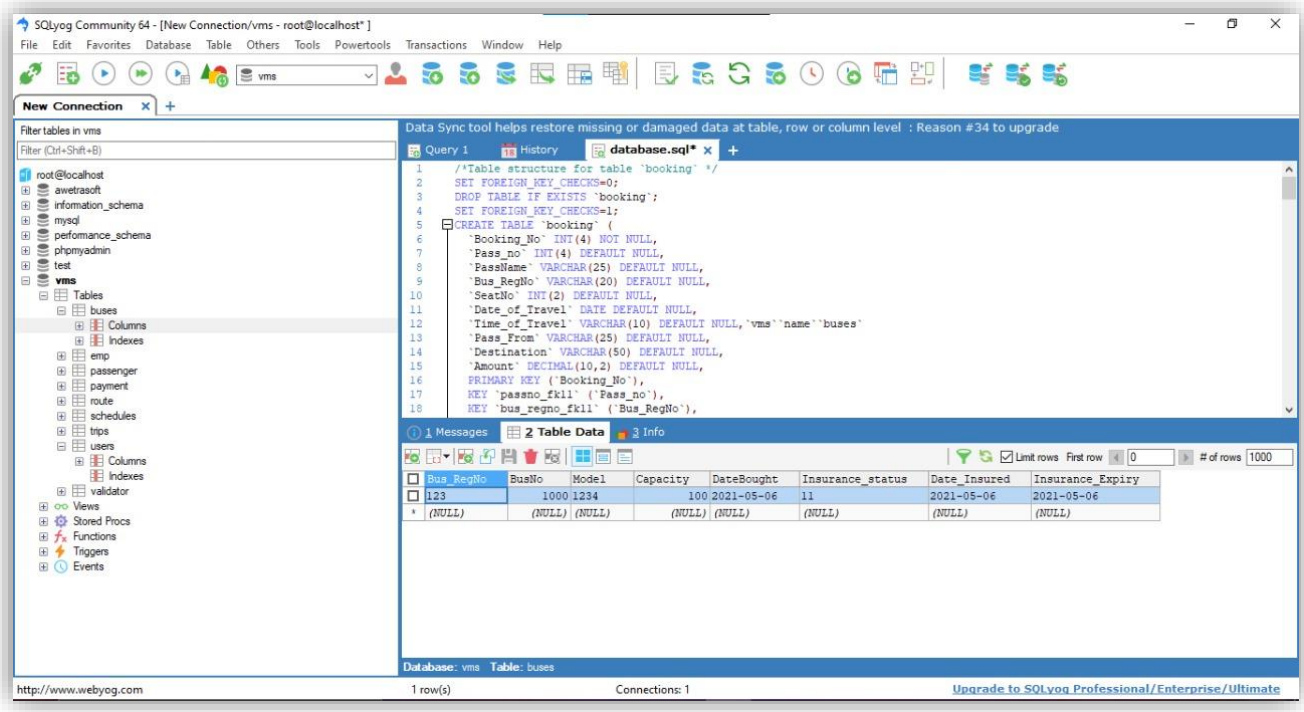
```
                    date_bought.getText() + "', '" +
                    txtIStatus.getText() + "', '" +
                    date_ins.getText() + "', '" +
                    date_expiry.getText() + "')";

            int result = stmt.executeUpdate(sql);
            String ObjButtons[] = {"Yes", "No"};
            int PromptResult = JOptionPane.showOptionDialog(null, "Record succesfully
added.Do you want to add another?",
                    "Success", JOptionPane.INFORMATION_MESSAGE,
JOptionPane.WARNING_MESSAGE, null, ObjButtons, ObjButtons[1]);
            if (PromptResult == 0) {
               generator();
               txtRegNo.setText("");
               txtModel.setText("");
               txtCapacity.setText("");
               txtIStatus.setText("");
            } else {
               dispose();
            }
         } catch (SQLException sqlex) {
            JOptionPane.showMessageDialog(null, "Error on database operation", "Failure",
JOptionPane.ERROR_MESSAGE);
         }//try catch closed
      }
   });

   btnCancel.addActionListener(new ActionListener() {

      public void actionPerformed(ActionEvent e) {
         dispose();
      }
   });

   btnClear.addActionListener(new ActionListener() {

      public void actionPerformed(ActionEvent e) {
         txtBusNo.setText("");
         txtRegNo.setText("");
         txtModel.setText("");
         txtCapacity.setText("");
         txtIStatus.setText("");
      }
   });
}//constructor closed
private void generator() {
   try {
      Statement stmt = DBConnection.getDBConnection().createStatement();
```

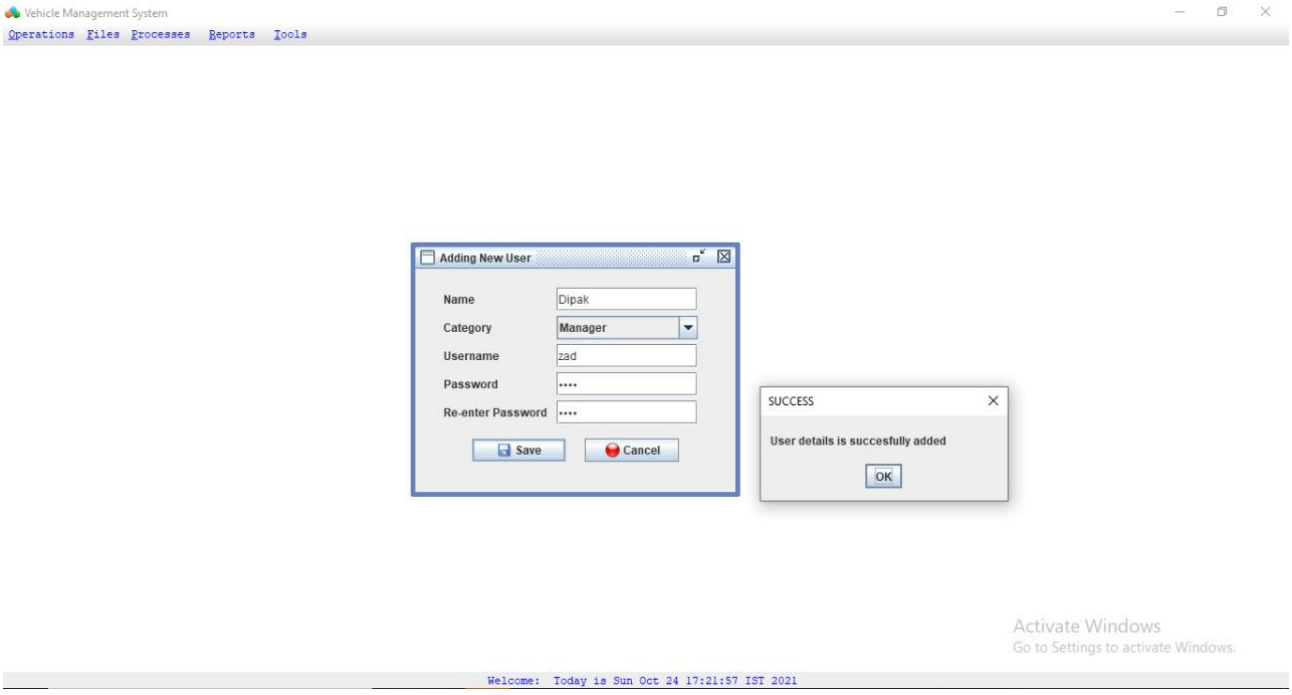
```
        ResultSet rst = stmt.executeQuery("select * from Buses where BusNo =(SELECT
Max(Buses.BusNo) AS MaxOfBusNo FROM Buses)");
        txtBusNo.setText("1000");
        while (rst.next()) {
            String s;
            int number = rst.getInt(2);
            number = number + 1;
            s = "" + number;
            txtBusNo.setText(s);
        }
      } catch (Exception n) {
        JOptionPane.showMessageDialog(null, "Error on generator" + n.toString());
      }//try catch closed
   }//generator() closed
}//class closed
```

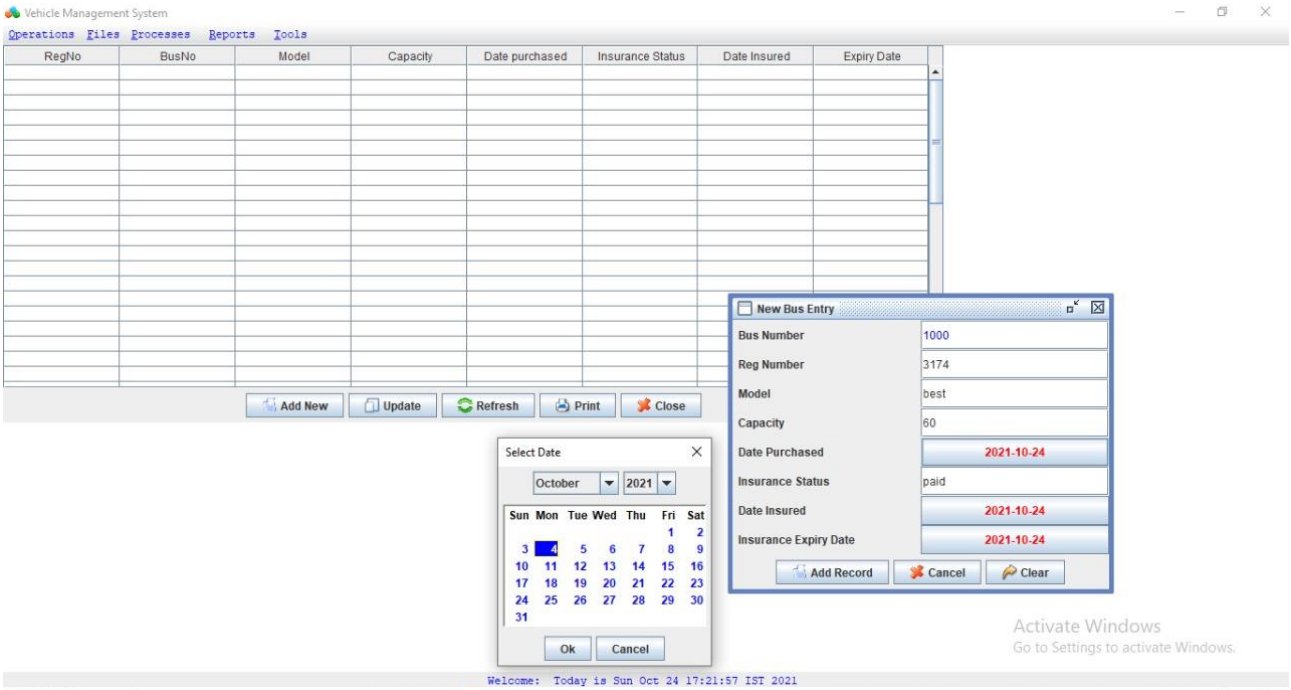
Chapter-7
OUTPUT

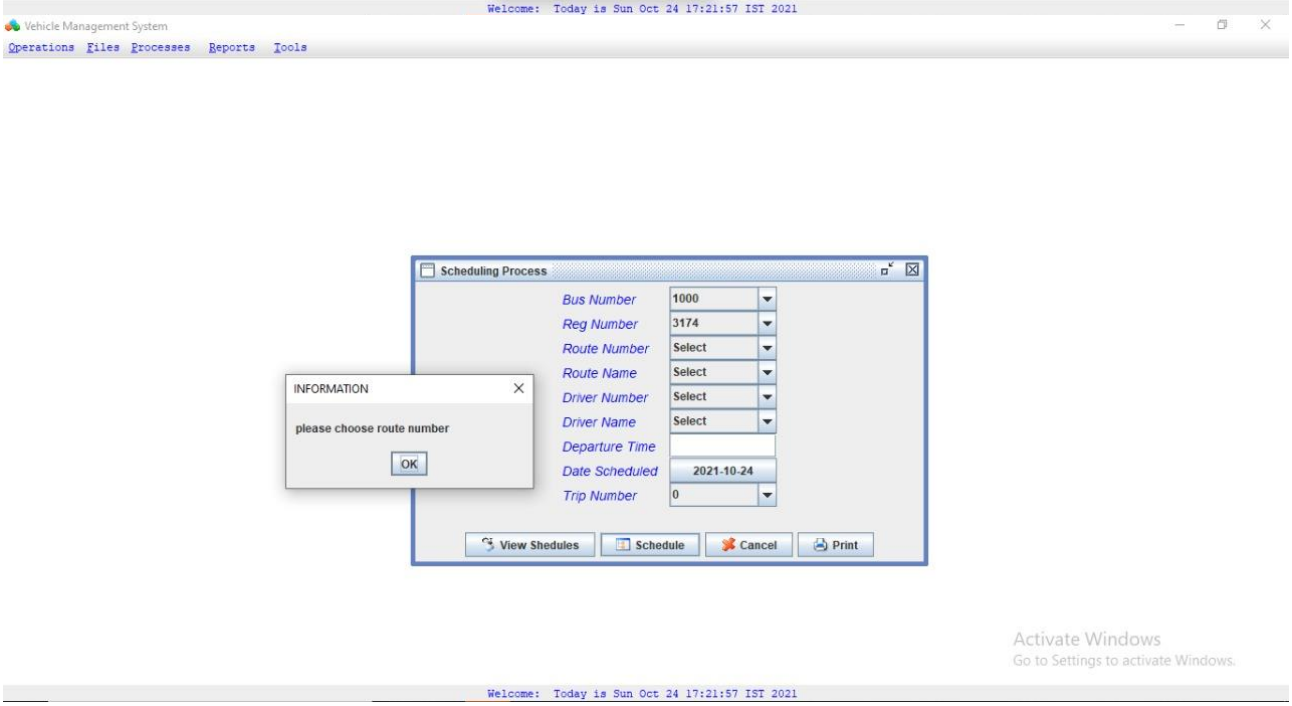


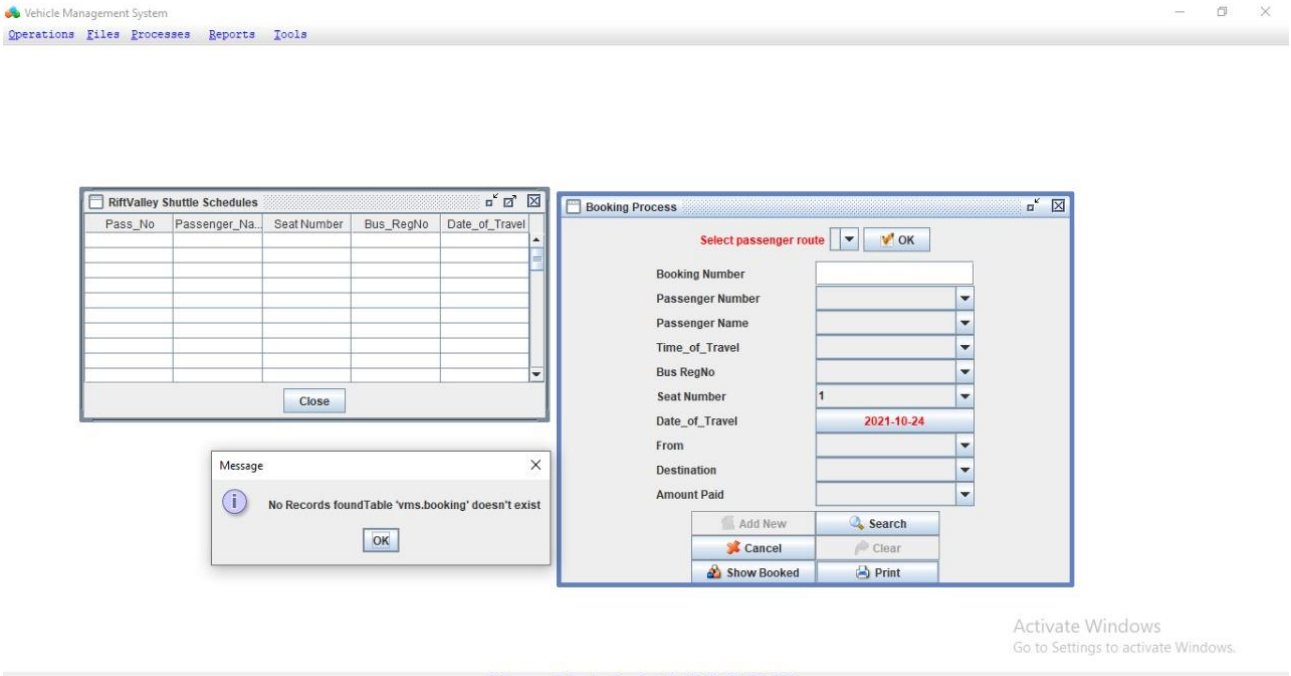


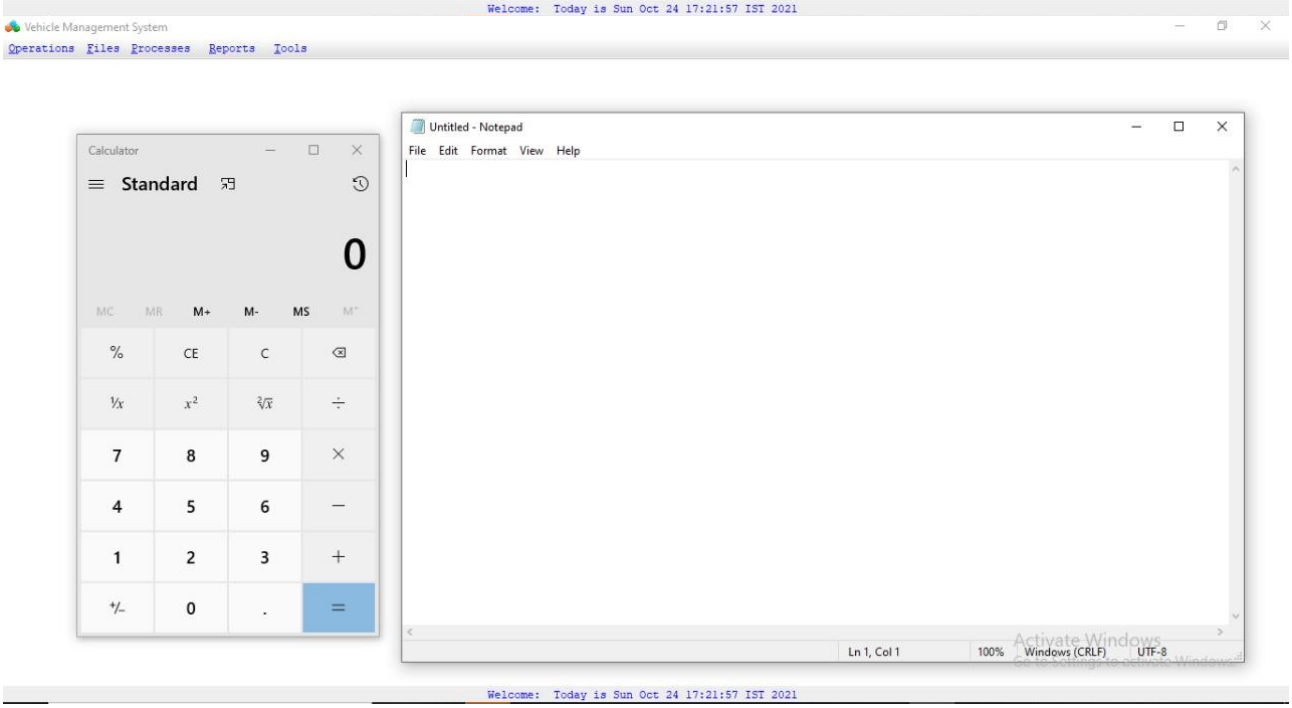

SQLyog Community 64 - [New Connection/vms - root@localhost*]
File Edit Favorites Database Table Others Tools Powertools Transactions Window Help
New Connection
Filter tables in vms
Data Sync tool helps restore missing or damaged data at table, row or column level : Reason #34 to upgrade
Query 1 History database.sql*
/*Table structure for table `booking` */
SET FOREIGN_KEY_CHECKS=0;
DROP TABLE IF EXISTS `booking`;
SET FOREIGN_KEY_CHECKS=1;
CREATE TABLE `booking` (
`Booking_No` INT(4) NOT NULL,
`Pass_no` INT(4) DEFAULT NULL,
`PassName` VARCHAR(25) DEFAULT NULL,
`Bus_RegNo` VARCHAR(20) DEFAULT NULL,
`SeatNo` INT(2) DEFAULT NULL,
`Date_of_Travel` DATE DEFAULT NULL,
`Time_of_Travel` VARCHAR(10) DEFAULT NULL,`vms``name``buses`
`Pass_From` VARCHAR(25) DEFAULT NULL,
`Destination` VARCHAR(50) DEFAULT NULL,
`Amount` DECIMAL(10,2) DEFAULT NULL,
PRIMARY KEY (`Booking_No`),
KEY `passno_fk11` (`Pass_no`),
KEY `bus_regno_fk11` (`Bus_RegNo`),
1 Messages 2 Table Data 3 Info
Bus_RegNo BusNo Model Capacity DateBought Insurance_status Date_Insured Insurance_Expiry
123 1000 1234 100 2021-05-06 11 2021-05-06 2021-05-06
(NULL) (NULL) (NULL) (NULL) (NULL) (NULL) (NULL) (NULL)
Database: vms Table: buses
http://www.webyog.com
1 row(s)
Connections: 1
Upgrade to SQLyog Professional/Enterprise/Ultimate

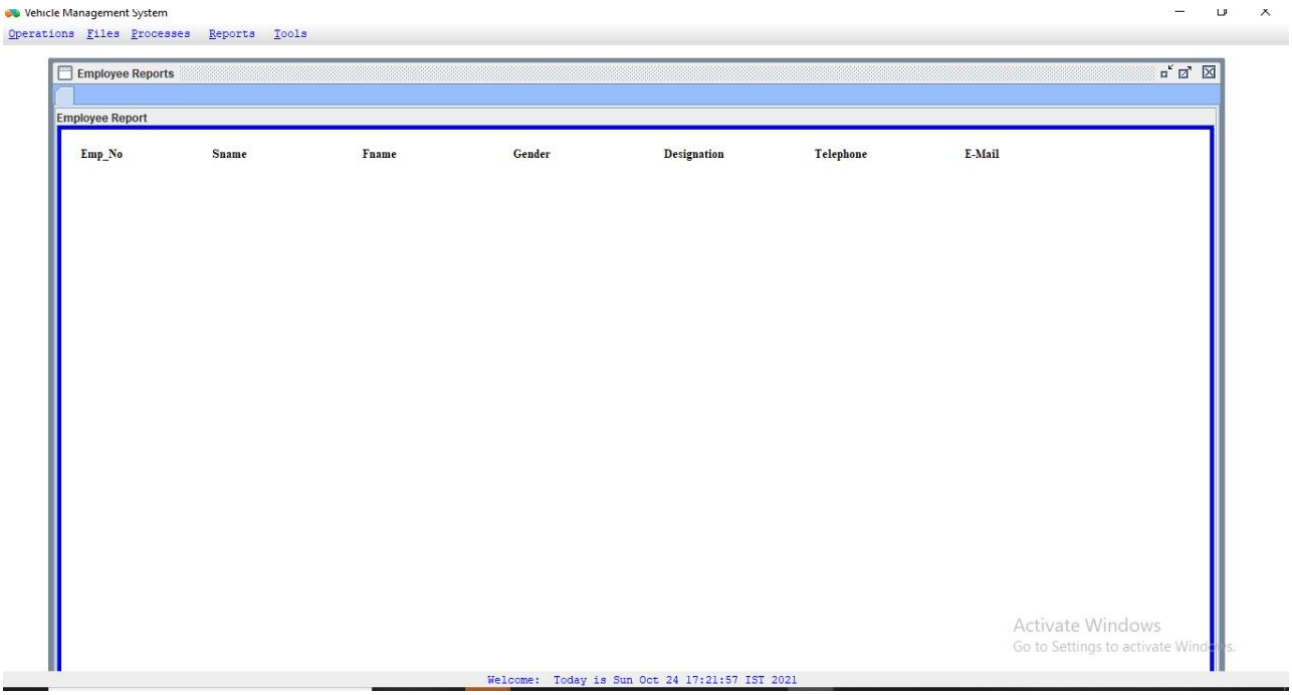

Vehicle Management System
Operations Files Processes Reports Tools
Adding New User
Name Dipak
Category Manager
Username zad
Password
Re-enter Password
Save
Cancel
SUCCESS
User details is succesfully added
OK
Activate Windows
Go to Settings to activate Windows.
Welcome: Today is Sun Oct 24 17:21:57 IST 2021


Vehicle Management System
Operations Files Processes Reports Tools
RegNo
BusNo
Model
Capacity
Date purchased
Insurance Status
Date Insured
Expiry Date
Add New
Update
Refresh
Print
Close
New Bus Entry
Bus Number
1000
Reg Number
3174
Model
best
Capacity
60
Date Purchased
2021-10-24
Insurance Status
paid
Date Insured
2021-10-24
Insurance Expiry Date
2021-10-24
Add Record
Cancel
Clear
Select Date
October
2021
Sun Mon Tue Wed Thu Fri Sat
Ok
Cancel
Activate Windows
Go to Settings to activate Windows.
Welcome: Today is Sun Oct 24 17:21:57 IST 2021


Vehicle Management System
Operations Files Processes Reports Tools
Scheduling Process
Bus Number
1000
Reg Number
3174
Route Number
Select
Route Name
Select
Driver Number
Select
Driver Name
Select
Departure Time
Date Scheduled
2021-10-24
Trip Number
0
View Shedules
Schedule
Cancel
Print
INFORMATION
please choose route number
OK
Activate Windows
Go to Settings to activate Windows.
Welcome: Today is Sun Oct 24 17:21:57 IST 2021


Vehicle Management System
Operations Files Processes Reports Tools
RiftValley Shuttle Schedules
Pass_No
Passenger_Na...
Seat Number
Bus_RegNo
Date_of_Travel
Close
Message
No Records foundTable 'vms.booking' doesn't exist
OK
Booking Process
Select passenger route
OK
Booking Number
Passenger Number
Passenger Name
Time_of_Travel
Bus RegNo
Seat Number
1
Date_of_Travel
2021-10-24
From
Destination
Amount Paid
Add New
Search
Cancel
Clear
Show Booked
Print
Activate Windows
Go to Settings to activate Windows.
Welcome: Today is Sun Oct 24 17:21:57 IST 2021


Vehicle Management System
Operations Files Processes Reports Tools
Calculator
Standard
0
MC MR M+ M- MS M^
%
CE
C
1/x
x²
∛x
÷
7 8 9 ×
4 5 6 −
1 2 3 +
+/- 0 . =
Untitled - Notepad
File Edit Format View Help
Ln 1, Col 1
100%
Windows (CRLF)
UTF-8
Activate Windows
Welcome: Today is Sun Oct 24 17:21:57 IST 2021


Vehicle Management System
Operations Files Processes Reports Tools
Employee Reports
Employee Report
Emp_No
Sname
Fname
Gender
Designation
Telephone
E-Mail
Activate Windows
Go to Settings to activate Windows.
Welcome: Today is Sun Oct 24 17:21:57 IST 2021

Chapter-8
Conclusion

The Transport Management System is an application that the admin launch the route ,add time and cab for the route and make updation for route,time and cab. Then the user come and

View the route details and make a request for cab and also make update to request. After that the user give request for cab the administrator asign the cab for the user request.Then the user get information about cab.The user can give complaint about service and the administrator take action for the user complaint. The administrator get the user’s feedback.

Chapter-9

Reference

www.wikipedia.com

www.w3school.com

www.google.com

www.youtube.com