

**JAVA BASED-CAB RENTAL
INVOICE GENERATOR- SQL
CONNECTIVITY USING JDBC**

A

Report

*Submitted in partial fulfillment of the
Requirements for the award of the Degree of*

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

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BONAFIDE CERTIFICATE

This is to certify that this project report titled '**CAB RENTAL INVOICE GENERATOR**' is a project work of Sruthibhavana bearing roll no. 1602-20-737-047 who carried out the project under my supervision in the IV semester for the academic year 2021- 2022.

Signature

Internal Examiner
Examiner

Signature

External

ABSTRACT:

In this project we are going to generate invoice for cab rental system. In this customers can rent cabs on their choice by finding the availability of particular vehicle and book the vehicle upto the date they want. According to that bill is generated. To implement this and to display all the data on the screen we need to build the database with details of customer , vehicle, booking and invoice as a back end database. To build this we are using mySQL for the back end and java for the front end part.

REQUIREMENT ANALYSIS:

List of Tables:

- customers
- vehicle-details
- booking_details
- invoice

List of attributes with their domain types:

Customer

Name varchar2

Address char

Phnno number

Cid varchar2

Vehicle-details

V I'd varchar2

Meter reading number

Name varchar2

Availability varchar2

Costpermile number

Booking-details

Book-id varchar2

V-id varchar2

No-ofdays number

C I'd varchar2

Invoice

Billid varchar2

Book-id varchar2

Total amount number

AIM AND PRIORITY OF THE PROJECT

To create a Java GUI based for cab rental invoice generator which takes the values like details of customer, vehicle, booking and invoice for bill generation . These values are to be updated in the database using JDBC connectivity.

ARCHITECTURE AND TECHNOLOGY

Software used: Eclipse, Oracle 11g Database, Java SE version 17, mysql.

Java SWINGS:

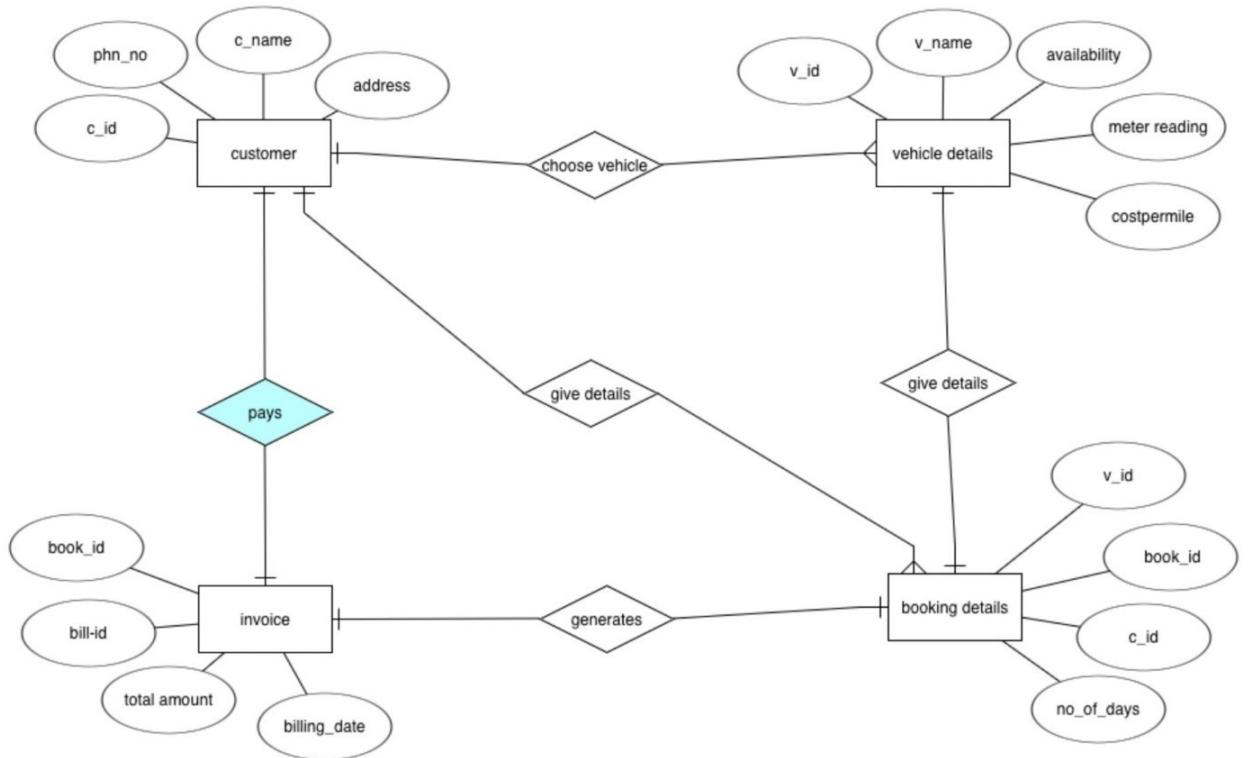
Java SWINGS is an API to develop GUI or window-based applications in java. Java SWING components are platform-independent. It is lightweight. The javax.swing package provides classes for SWING API such as JTextField, JLabel, JTextArea, JButton, JChoice, JList etc.

SQL:

Structure Query Language(SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySql, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

DESIGN:

ER DIAGRAM:



DDL COMMANDS:

@ Run Command [Line](#)

Customer

- create table customer(
 cname varchar2(20)
 c_id varchar2(20) primary key,
 address char(20);

vehicle_details:

- create table vehicle_details(
 v_id varchar2(10) primary key,
 v_name varchar2(10),
 availability varchar2(10)
 costpermile number(20));

booking_details:

- create table booking_details(
 book_id varchar2(15) primary key,
 c_id varchar2(10),

```

no_ofdays number(5));
invoice
•create table invoice(
bill_id varchar2(10)
bill_date date,
totalamount number,
book_id varchar2(20));

```

[mysql] > desc customer;

Field	Type	Null	Key	Default	Extra
cname	varchar(20)	YES		NULL	
c_id	varchar(20)	NO	PRI	NULL	
phn_no	varchar(10)	YES		NULL	
address	varchar(20)	YES		NULL	

4 rows in set (0.00 sec)

mysql> █

mysql> use cabrentalsystem;

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed

mysql> create table vehicle_details(v_id varchar(10), v_name varchar(10), meter_reading real, availability varchar(5), costpermile integer(20), primary key(v_id));
Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql> desc vehicle_details;

Field	Type	Null	Key	Default	Extra
v_id	varchar(10)	NO	PRI	NULL	
v_name	varchar(10)	YES		NULL	
meter_reading	double	YES		NULL	
availability	varchar(5)	YES		NULL	
costpermile	int	YES		NULL	

5 rows in set (0.00 sec)

mysql> create table booking_details(

→ book_id varchar(30) PRIMARY KEY, no_of_days integer(10), foreign key(c_id) references customer(c_id), foreign key(v_id) references vehicle_details(v_id));

ERROR 1072 (42000): Key column 'c_id' doesn't exist in table
mysql> create table booking_details(book_id varchar(30) PRIMARY KEY, no_of_days integer(10), c_id varchar(20), v_id varchar(10), foreign key(c_id) references customer(c_id), foreign key(vehicle_details(v_id));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> desc booking_details;

Field	Type	Null	Key	Default	Extra
book_id	varchar(30)	NO	PRI	NULL	
no_of_days	int	YES		NULL	
c_id	varchar(20)	YES	MUL	NULL	
v_id	varchar(10)	YES	MUL	NULL	

4 rows in set (0.00 sec)

```
mysql> create table invoice(
-> bill_id varchar(30),
-> bill_date date not null,
-> totalamount integer(30),
-> book_id varchar(30),
-> foreign key(book_id) references booking_details(book_id));
Query OK, 0 rows affected, 1 warning (0.02 sec)
```

```
mysql> show tables;
```

```
[mysql]> desc invoice;
```

Field	Type	Null	Key	Default	Extra
bill_id	varchar(30)	YES		NULL	
bill_date	date	NO		NULL	
totalamount	int	YES		NULL	
book_id	varchar(30)	YES	MUL	NULL	

```
4 rows in set (0.01 sec)
```

```
mysql> █
```

DML COMMANDS:

1) Inserting values into customer table

```
insert into customer values('&name', '&Address', &phn no, '&cid');
```

2) Inserting values into vehicle_details table

```
insert into vehicle_details values('&v-id', '&name', &meter reading, '&availability');
```

3) Inserting values into booking_details table

```
insert into booking-details values('&bid', '&', &no-ofno-ofday','&cid');
```

4) Inserting values into invoice table

```
insert into invoice values('&bill id', &totalamount, '&bookid', &billdate, '&submitted_time');
```

```

mysql> insert into customer values('sruthi','c1',91424,'hyd');
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values('vishnu','c2',91425,'kmm');
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values('harsh','c2',91426,'kmg');
ERROR 1062 (23000): Duplicate entry 'c2' for key 'customer.PRIMARY'
mysql> insert into customer values('sruthi','c1',91424,'hyd');
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values('vishnu','c2',91425,'kmm');
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values('harsh','c2',91426,'kmg');
ERROR 1062 (23000): Duplicate entry 'c2' for key 'customer.PRIMARY'
mysql> insert into customer values('harsh','c3',91426,'kmg');
Query OK, 1 row affected (0.00 sec)

mysql> insert into customer values('arjun','c3',51326,'srpt');
Query OK, 1 row affected (0.00 sec)
ERROR 1062 (23000): Duplicate entry 'c3' for key 'customer.PRIMARY'
mysql> insert into customer values('arjun','c4',51326,'srpt');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer values('shiva','c5',51337,'hnpt');
Query OK, 1 row affected (0.00 sec)

mysql> select * from customer;
+-----+-----+-----+-----+
| cname | c_id | phn_no | address |
+-----+-----+-----+-----+
| sruthi | c1   | 91424  | hyd    |
| vam   | c10  | 69364  | hyd    |
| vishnu | c2   | 91425  | kmm    |
| harsh  | c3   | 91426  | kmg    |
| arjun  | c4   | 51326  | srpt   |
| shiva  | c5   | 51337  | hnpt   |
| aksha  | c6   | 61234  | wgl    |
| arith  | c7   | 61245  | vizag  |
| avi   | c8   | 61245  | vizag  |
| drushi | c9   | 61364  | hyd    |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

```

```

mysql> desc vehicle_details;
+-----+-----+-----+-----+-----+-----+
| Field      | Type       | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| v_id        | varchar(10) | NO  | PRI | NULL    |       |
| v_name      | varchar(10) | YES |     | NULL    |       |
| meter_reading | float(5,3) | YES |     | NULL    |       |
| availability | varchar(5)  | YES |     | NULL    |       |
| costpermile | int         | YES |     | NULL    |       |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

mysql> insert into vehicle_details values('v1','swift',2.34,'yes',15);
Query OK, 1 row affected (0.01 sec)

mysql> insert into vehicle_details values('v1','kia',200,'yes',16);
ERROR 1264 (22003): Out of range value for column 'meter_reading' at row 1
mysql> insert into vehicle_details values('v1','kia',20.35,'yes',16);
ERROR 1062 (23000): Duplicate entry 'v1' for key 'vehicle_details.PRIMARY'
mysql> insert into vehicle_details values('v2','kia',20.35,'yes',16);
Query OK, 1 row affected (0.01 sec)

mysql> insert into vehicle_details values('v3','skoda',300.35,'yes',17);
ERROR 1264 (22003): Out of range value for column 'meter_reading' at row 1
mysql> insert into vehicle_details values('v3','skoda',30.35,'yes',17);
Query OK, 1 row affected (0.00 sec)

```

IMPLEMENTATION:

Front end programs and its connectivity

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
package demo;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;

public class DB {
    public static Connection getConnection(){
        Connection con=null;
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            con=DriverManager.getConnection("jdbc:mysql://localhost:3306/
cabrentalsystem","root","Sruthi#123");
        }catch(Exception e){System.out.println(e);}
        return con;
    }
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

MAIN METHOD:

```

public class Main {
    public static void main(String[] args)
        { new PortalUI();
    }
}

```

Customer

```

import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class customer extends JFrame {
    private static final long serialVersionUID = 1L;
    static customer frame;
    private JPanel contentPane;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new customer();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public customer() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 450, 433);
        contentPane = new JPanel();
        contentPane.setForeground(Color.GRAY);
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);

        JLabel lblSection = new JLabel("customers Information");
        lblSection.setFont(new Font("Tahoma", Font.PLAIN, 22));

        JButton btnSAdd = new JButton("Add customer");
        btnSAdd.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                Addcustomer.main(new String[]{});
                frame.dispose();
            }
        });
        btnSAdd.setFont(new Font("Tahoma", Font.PLAIN, 13));

        JButton btnSUpdate = new JButton("Modify customer Details");
        btnSUpdate.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent arg0) {
                updatecustomer.main(new String[]{});
                frame.dispose();
            }
        });
        btnSUpdate.setFont(new Font("Tahoma", Font.PLAIN, 13));
    }
}

```

```

        JButton btnSDelete = new JButton("Delete customer");
        btnSDelete.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                Deletecustomer.main(new String[]{});
                frame.dispose();
            }
        });
        btnSDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));

        JButton btnView = new JButton("View All customers");
        btnView.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                viewcustomer.main(new String[]{});
            }
        });
        btnView.setFont(new Font("Tahoma", Font.PLAIN, 13));

        JButton btnBack = new JButton("Back");
        btnBack.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                Menu.main(new String[]{});
                frame.dispose();
            }
        });
        btnBack.setFont(new Font("Tahoma", Font.PLAIN, 13));

        GroupLayout gl_contentPane = new GroupLayout(contentPane);
        gl_contentPane.setHorizontalGroup(
            gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(Alignment.TRAILING, gl_contentPane.createSequentialGroup()
                    .addComponent(btnSection)
                    .addGap(54))
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(132)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE)
                        .addComponent(btnView, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE)
                        .addComponent(btnSDelete, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE)
                        .addComponent(btnSUpdate, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE)
                        .addComponent(btnSAdd, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE))
                    .addGap(101, Short.MAX_VALUE)))
        );
        gl_contentPane.setVerticalGroup(
            gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addComponent(btnSection)
                    .addGap(18)
                    .addComponent(btnSAdd, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addGap(18)
                    .addComponent(btnSUpdate, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addGap(18)
                    .addComponent(btnSDelete, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addGap(18)
                    .addComponent(btnView, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addGap(18)
                    .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addGap(16, Short.MAX_VALUE)))
        );
        contentPane.setLayout(gl_contentPane);
    }
}

```

Add customer:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;

```

```
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import javax.swing.JOptionPane;

import java.awt.Font;
import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.util.regex.Pattern;
import java.awt.event.ActionEvent;
import javax.swing.LayoutStyle.ComponentPlacement;

public class Addcustomer extends JFrame {
    private static final long serialVersionUID = 1L;
    static Addcustomer frame;
    private JPanel contentPane;
    private JTextField textField;
    private JTextField textField_1;
    private JTextField textField_2;
    private JTextField textField_3;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new Addcustomer();
                    frame.setTitle("customer Info.");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public Addcustomer() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 450, 404);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
```

```

JLabel lblAddcustomer = new JLabel("Add customer");
lblAddcustomer.setForeground(Color.GRAY);
lblAddcustomer.setFont(new Font("Tahoma", Font.PLAIN, 18));

JLabel lblid = new JLabel("customer id:");

JLabel lblname = new JLabel("customer name :");

JLabel lblcontact= new JLabel("phone number :");

JLabel lbladdress = new JLabel("address :");

textField = new JTextField();
textField.setColumns(10);

textField_1 = new JTextField();
textField_1.setColumns(10);

textField_2 = new JTextField();
textField_2.setColumns(10);
textField_3 = new JTextField();
textField_3.setColumns(10);

JButton btnAdd = new JButton("Submit");
btnAdd.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String cid=textField.getText();
        String cname=textField_1.getText();
        //int phnno=Integer.parseInt(textField_2.getText());
        boolean check = Pattern.matches("[6-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]", textField_2.getText());
        if(check) {
            String phnno = textField_2.getText();
            String address=textField_3.getText();
            if(customerdetails.checkcustomer(cid)) {
                JOptionPane.showMessageDialog(Addcustomer.this,"Duplication of customer id is not allowed\nInsertion not allowed");
            }
            else {
                int i=customerdetails.insertcustomer(cid,cname,phnno,address);
                if(i>0){
                    JOptionPane.showMessageDialog(Addcustomer.this,"Added customer successfully!");
                }else{
                    JOptionPane.showMessageDialog(Addcustomer.this,"Sorry, unable to add customer");
                }
            }
        }
        else {
            JOptionPane.showMessageDialog(Addcustomer.this,"Format Error");
        }
    }
});

```

```

        }
    });

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e1) {
        customer.main(new String[]{} );
        frame.dispose();
    }
});

gl_contentPane = new GroupLayout(contentPane);
gl_contentPane.setHorizontalGroup(
    gl_contentPane.createParallelGroup(Alignment.TRAILING)
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addComponent(lblAddcustomer)
                    .addGroup(gl_contentPane.createSequentialGroup()
                        .addGap(150)
                        .addComponent(lblId)
                        .addComponent(lblName)
                        .addComponent(lblContact)
                        .addComponent(lblAddress)
                    )
                    .addGap(18)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING,
false)
                        .addComponent(textField_3, GroupLayout.PREFERRED_SIZE,
167, GroupLayout.PREFERRED_SIZE)
                        .addComponent(textField_2, GroupLayout.PREFERRED_SIZE,
167, GroupLayout.PREFERRED_SIZE)
                        .addComponent(textField_1, GroupLayout.PREFERRED_SIZE,
167, GroupLayout.PREFERRED_SIZE)
                        .addComponent(textField, GroupLayout.PREFERRED_SIZE,
167, GroupLayout.PREFERRED_SIZE)
                    )
                    .addGap(47)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(textField_3, GroupLayout.PREFERRED_SIZE,
167, GroupLayout.PREFERRED_SIZE)
                        .addComponent(textField_2, GroupLayout.PREFERRED_SIZE,
167, GroupLayout.PREFERRED_SIZE)
                        .addComponent(textField_1, GroupLayout.PREFERRED_SIZE,
167, GroupLayout.PREFERRED_SIZE)
                        .addComponent(textField, GroupLayout.PREFERRED_SIZE,
167, GroupLayout.PREFERRED_SIZE)
                    )
                )
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(125, Short.MAX_VALUE)
                    .addGroup(Alignment.LEADING, gl_contentPane.createSequentialGroup()
                        .addGap(50)
                        .addComponent(btnAdd)
                        .addGap(30)
                        .addComponent(btnBack)
                    )
                    .addGap(0)
                )
            )
            .addGroup(gl_contentPane.createSequentialGroup()
                .addGap(10)
                .addComponent(gl_contentPane.createParallelGroup(Alignment.LEADING)
                    .addGroup(gl_contentPane.createSequentialGroup()
                        .addComponent(lblAddcustomer)
                    )
                )
            )
        )
    )
);
gl_contentPane.setVerticalGroup(
    gl_contentPane.createParallelGroup(Alignment.LEADING)
        .addGroup(gl_contentPane.createSequentialGroup()
            .addComponent(lblAddcustomer)
        )
);

```

```

        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(lblid)
            .addComponent(textField, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(lblname)
            .addComponent(textField_1, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(lblcontact)
            .addComponent(textField_2, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(lbladdress)
            .addComponent(textField_3, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(btnAdd, GroupLayout.PREFERRED_SIZE, 31,
GroupLayout.PREFERRED_SIZE))
        .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 31,
GroupLayout.PREFERRED_SIZE))
    );
    contentPane.setLayout(gl_contentPane);
}
}

}


```

Delete customer:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;

```

```

import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class Deletecustomer extends JFrame {
    static Deletecustomer frame;
    private JPanel contentPane;
    private JTextField textField;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new Deletecustomer();
                    frame.setTitle("Delete cutsomer Info.");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public Deletecustomer() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 450, 200);

        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));

        setContentPane(contentPane);

        JLabel lblEnterId = new JLabel("Enter customer id :");

        textField = new JTextField();
        textField.setColumns(10);

        JButton btnDelete = new JButton("Delete");

```

```

btnDelete.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String sid=textField.getText();
        if(sid==null||sid.trim().equals("")){
            JOptionPane.showMessageDialog(Deletecustomer.this,"id. can't be blank");
        }else{

            int i=customerdetails.deletecustomer(sid);
            if(i>0){
                JOptionPane.showMessageDialog(Deletecustomer.this,"customer Record
deleted successfully!");
            }else{
                JOptionPane.showMessageDialog(Deletecustomer.this,"Unable to delete
given customer details.!");
            }
        }
    });
    btnDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnNewButton = new JButton("Back");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        customer.main(new String[]{});
        frame.dispose();
    }
});
btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 13));
GroupLayout gl_contentPane = new GroupLayout(contentPane);
gl_contentPane.setHorizontalGroup(
    gl_contentPane.createParallelGroup(Alignment.LEADING)
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGap(39)
            .addComponent(lblEnterId)
            .addGap(57)
            .addComponent(textField, GroupLayout.PREFERRED_SIZE, 178,
GroupLayout.PREFERRED_SIZE)
            .addGap(107, Short.MAX_VALUE))
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGap(100)
            .addComponent(btnDelete)
            .addGap(30)
            .addComponent(btnNewButton)
        )
);
gl_contentPane.setVerticalGroup(
    gl_contentPane.createParallelGroup(Alignment.CENTER)
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGap(19)
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)

```

```

        .addComponent(textField, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE)
        .addComponent(lblEnterId))
        .addGap(33)
        .addGroup(gl_contentPane.createParallelGroup()
        .addComponent(btnDelete)
        .addComponent(btnNewButton)

)));
contentPane.setLayout(gl_contentPane);
}
}

```

Update customer:

```

import java.awt.Color;
import java.awt.EventQueue;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextField;
import javax.swing.border.EmptyBorder;

public class updatecustomer extends JFrame {

    private static final long serialVersionUID = 1L;
    static updatecustomer frame;
    private JPanel contentPane;
    private JTextField textField;
    private JLabel lblcid;
    private JTextField textField1;
    private JLabel lblcustomername;
    private JTextField textField2;
    private JLabel lblRecustomername;

```

```

private JTextField TextField3;
private JLabel lbladdress;
/**
 * Launch the application.
 */
public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                frame = new updatecustomer();
                frame.setTitle("Modify customer Info.");
                frame.setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

/**
 * Create the frame.
 */
public updatecustomer() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(110, 95, 650, 380);
    setResizable(false);

    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);

    TextField = new JTextField();
    TextField.setFont(new Font("Tahoma", Font.PLAIN, 18));
    TextField.setBounds(290, 37, 326, 40);
    contentPane.add(TextField);
    TextField.setColumns(10);

    TextField1 = new JTextField();
    TextField1.setFont(new Font("Tahoma", Font.PLAIN, 18));
    TextField1.setBounds(290, 87, 326, 40);
    contentPane.add(TextField1);
    TextField1.setColumns(10);

    TextField2 = new JTextField();
    TextField2.setFont(new Font("Tahoma", Font.PLAIN, 18));
    TextField2.setBounds(290, 137, 326, 40);
    contentPane.add(TextField2);
    TextField2.setColumns(10);

    TextField3 = new JTextField();

```

```

TextField3.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField3.setBounds(290, 187, 326, 40);
contentPane.add(TextField3);
TextField3.setColumns(10);

TextField.setText("");
TextField1.setText("");
TextField3.setText("");

Connection con = DB.getConnection();

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        frame.dispose();
        customer.main(new String[]{} );
    }
});
btnBack.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnBack.setBackground(new Color(240, 240, 240));
btnBack.setBounds(450, 275, 130, 50);
contentPane.add(btnBack);

JButton btnSave = new JButton("Save");
btnSave.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String cid = TextField.getText();
        String cname = TextField1.getText();
        String phn = TextField2.getText();
        String add= TextField3.getText();
        if(customerdetails.checkcustomer(cid)) {
            try {

PreparedStatement st = con.prepareStatement("Update customer set cname=? ,phn_no = ? ,address=? where c_id=?");

st.setString(1, cname);
st.setString(3, add);
st.setString(2, phn);
st.setString(4, cid);
st.executeUpdate();
System.out.println("updated info for customer id : " + cid);
 JOptionPane.showMessageDialog(btnSave, "Data Updated Successfully :");

} catch (SQLException sqlException) {
            sqlException.printStackTrace();
        }
    }
    else{
        JOptionPane.showMessageDialog(updatecustomer.this,"customer ID is Invalid !!!");
        TextField.setText("");
        TextField1.setText("");
        //TextField2.setText("");
        TextField3.setText("");
    }
}
}

```

```

        }
    });
btnSave.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnSave.setBackground(new Color(240, 240, 240));
btnSave.setBounds(300, 275, 130, 50);
contentPane.add(btnSave);

lblcid = new JLabel("customer :");
lblcid.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblcid.setBounds(45, 37, 326, 40);
contentPane.add(lblcid);

lblcustomername = new JLabel("customer name :");
lblcustomername.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblcustomername.setBounds(45, 87, 326, 40);
contentPane.add(lblcustomername);

lblRecustomername = new JLabel("phone number:");
lblRecustomername.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblRecustomername.setBounds(45, 137, 326, 40);
contentPane.add(lblRecustomername);

lbladdress = new JLabel("address :");
lbladdress.setFont(new Font("Tahoma", Font.PLAIN, 18));
lbladdress.setBounds(45, 187, 326, 40);
contentPane.add(lbladdress);

JButton btnLoad = new JButton("Load");
btnLoad.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String cid = TextField.getText();
        Connection con = DB.getConnection();
        if(customerdetails.checkcustomer(cid)) {
            Statement st;
            try {
                PreparedStatement stmt = con.prepareStatement("select * from customer where c_id=?");
                stmt.setString(1,cid);
                ResultSet rs = stmt.executeQuery();
                while(rs.next())
                    {
                        TextField1.setText(rs.getString(1));
                        TextField.setText(rs.getString(2));
                    }
                TextField2.setText(rs.getString(3));
                TextField3.setText(rs.getString(4));
            } catch (SQLException e1) {
                e1.printStackTrace();
            }else {
        }
    }
}

```

```

        JOptionPane.showMessageDialog(updatecustomer.this,"customer ID is Invalid !!!");
        TextField.setText("");
        TextField1.setText("");
        //TextField2.setText("");
        TextField3.setText("");
    }

});

btnLoad.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnLoad.setBackground(new Color(240, 240, 240));
btnLoad.setBounds(150, 275, 130, 50);
contentPane.add(btnLoad);

}
}

```

View customer:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.border.EmptyBorder;
import javax.swing.JTable;

public class viewcustomer extends JFrame {

    private JPanel contentPane;
    private JTable table;

    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    viewcustomer frame = new viewcustomer();
                    frame.setTitle("customer");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
}

```

```

        }
    });
}

/**
 * Create the frame.
 */
public void viewcustomer() {
    setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    setBounds(100, 100, 450, 300);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    contentPane.setLayout(new BorderLayout(0, 0));
    setContentPane(contentPane);

    String data[][]=null;
    String column[]=null;
    try{
        Connection con=DB.getConnection();
        PreparedStatement ps=con.prepareStatement("select * from
customer",ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE);
        ResultSet rs=ps.executeQuery();

        ResultSetMetaData rsmd=rs.getMetaData();
        int cols=rsmd.getColumnCount();
        column=new String[cols];
        for(int i=1;i<=cols;i++){
            column[i-1]=rsmd.getColumnName(i);
        }

        rs.last();
        int rows=rs.getRow();
        rs.beforeFirst();

        data=new String[rows][cols];
        int count=0;
        while(rs.next()){
            for(int i=1;i<=cols;i++){
                data[count][i-1]=rs.getString(i);
            }
            count++;
        }
        con.close();
    }catch(Exception e){System.out.println(e);}

    table = new JTable(data,column);
    table.setDefaultEditor(Object.class, null);
    JScrollPane sp=new JScrollPane(table);

    contentPane.add(sp, BorderLayout.CENTER);
}
}

```

Customer details:

```
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

public class customerdetails {

    public static boolean checkcustomer(String bookid){
        boolean status=false;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("select * from customer where c_id=?");
            ps.setString(1,bookid);
            ResultSet rs=ps.executeQuery();
            status=rs.next();
            con.close();
        }catch(Exception e){System.out.println(e);}
        return status;
    }

    public static int insertcustomer(String c_id,String cname,String phn_no,String address){
        int status=0;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("insert into customer(c_id,cname,phn_no,address)
values(?,?,?,?,?)");
            ps.setString(1,c_id);
            ps.setString(2,cname);
            ps.setString(3,phn_no);
            ps.setString(4,address);

            status=ps.executeUpdate();
            con.close();
        }catch(Exception e){System.out.println(e);}
        return status;
    }

    public static int deletecustomer(String id){
        int status=0;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("delete from customer where c_id=?");
            ps.setString(1,id);
            status=ps.executeUpdate();
            con.close();
        }catch(Exception e){System.out.println(e);}
    }
}
```

```

        return status;
    }
}

```

vehicle:

```

import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class vehicle extends JFrame {
    private static final long serialVersionUID = 1L;
    static vehicle frame;
    private JPanel contentPane;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new vehicle();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public vehicle() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 450, 433);
        contentPane = new JPanel();
        contentPane.setForeground(Color.GRAY);
        contentPane.setBorder(new EmptyBorder(5, 5, 5));
        setContentPane(contentPane);

        JLabel lblSection = new JLabel("Vehicles Information");
        lblSection.setFont(new Font("Tahoma", Font.PLAIN, 22));

        JButton btnSAdd = new JButton("Add vehicle");
        btnSAdd.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                Addvehicle.main(new String[]{});
                frame.dispose();
            }
        });
        btnSAdd.setFont(new Font("Tahoma", Font.PLAIN, 13));

        JButton btnSUpdate = new JButton("Modify vehicle Details");
        btnSUpdate.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent arg0) {
                updatevehicle.main(new String[]{});
                frame.dispose();
            }
        });
        btnSUpdate.setFont(new Font("Tahoma", Font.PLAIN, 13));
    }
}

```

```

        JButton btnSDelete = new JButton("Delete vehicle");
        btnSDelete.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                deletevehicle.main(new String[]{});
                frame.dispose();
            }
        });
        btnSDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));

        JButton btnView = new JButton("View All vehicles");
        btnView.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                viewvehicle.main(new String[]{});
            }
        });
        btnView.setFont(new Font("Tahoma", Font.PLAIN, 13));

        JButton btnBack = new JButton("Back");
        btnBack.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                Menu.main(new String[]{});
                frame.dispose();
            }
        });
        btnBack.setFont(new Font("Tahoma", Font.PLAIN, 13));

        GroupLayout gl_contentPane = new GroupLayout(contentPane);
        gl_contentPane.setHorizontalGroup(
            gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(Alignment.TRAILING, gl_contentPane.createSequentialGroup()
                    .addContainerGap(81, Short.MAX_VALUE)
                    .addComponent(lblSection)
                    .addGap(54))
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(132)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE)
                        .addComponent(btnView, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE)
                        .addComponent(btnSDelete, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE)
                        .addComponent(btnSUpdate, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE)
                        .addComponent(btnSAdd, GroupLayout.PREFERRED_SIZE, 191, GroupLayout.PREFERRED_SIZE))
                    .addContainerGap(101, Short.MAX_VALUE)))
        );
        gl_contentPane.setVerticalGroup(
            gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(lblSection)
                    .addGap(18)
                    .addComponent(btnSAdd, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addComponent(btnSUpdate, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addComponent(btnSDelete, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
                    .addContainerGap(16, Short.MAX_VALUE)))
        );
        contentPane.setLayout(gl_contentPane);
    }

}

```

Add vehicle:

```

import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;

```

```

import javax.swing.border.EmptyBorder;
import javax.swing.JLabel;
import javax.swing.JOptionPane;

import java.awt.Font;
import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class Addvehicle extends JFrame {
    private static final long serialVersionUID = 1L;
    static Addvehicle frame;
    private JPanel contentPane;
    private JTextField TextField;
    private JTextField TextField_1;
    private JTextField TextField_2;
    private JTextField TextField_3;
    private JTextField TextField_4;
    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new Addvehicle();
                    frame.setTitle("Vehicle Info.");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    /**
     * Create the frame.
     */
    public Addvehicle() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(110, 95, 700, 550);
        setResizable(false);

        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);

        TextField = new JTextField();

```

```

TextField.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField.setBounds(290, 125, 326, 40);
contentPane.add(TextField);
TextField.setColumns(10);

TextField_1 = new JTextField();
TextField_1.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField_1.setBounds(290, 175, 326, 40);
contentPane.add(TextField_1);
TextField_1.setColumns(10);

TextField_2 = new JTextField();
TextField_2.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField_2.setBounds(290, 225, 326, 40);
contentPane.add(TextField_2);
TextField_2.setColumns(10);

TextField_3 = new JTextField();
TextField_3.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField_3.setBounds(290, 275, 326, 40);
contentPane.add(TextField_3);
TextField_3.setColumns(10);

TextField_4 = new JTextField();
TextField_4.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField_4.setBounds(290, 325, 326, 40);
contentPane.add(TextField_4);
TextField_4.setColumns(10);

TextField.setText("");
    TextField_1.setText("");
    TextField_2.setText("");
    TextField_3.setText("");
    TextField_4.setText("");
    JLabel lblAddvehicles = new JLabel("Add vehicles");
lblAddvehicles.setFont(new Font("Courier New", Font.BOLD, 36));
lblAddvehicles.setForeground(Color.BLACK);
lblAddvehicles.setBounds(150, 27, 300, 40);
contentPane.add(lblAddvehicles);
    JLabel lblbookid = new JLabel("vehicle ID :");
lblbookid.setFont(new Font("Big Calson", Font.PLAIN, 18));
lblbookid.setBounds(45, 125, 326, 40);
contentPane.add(lblbookid);

    JLabel lblName = new JLabel("vehicle name :");
lblName.setFont(new Font("Freestyle Script", Font.PLAIN, 18));
lblName.setBounds(45, 175, 326, 40);
contentPane.add(lblName);

    JLabel lblAuthor = new JLabel("meter reading :");

```

```

lblAuthor.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblAuthor.setBounds(45, 225, 326, 40);
contentPane.add(lblAuthor);

JLabel lblName2 = new JLabel("availability:");
lblName2.setFont(new Font("Freestyle Script", Font.PLAIN, 18));
lblName2.setBounds(45, 275, 326, 40);
contentPane.add(lblName2);

JLabel lblAuthor3 = new JLabel("costpermile :");
lblAuthor3.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblAuthor3.setBounds(45, 325, 326, 40);
contentPane.add(lblAuthor3);

JButton btnAddvehicles = new JButton("Submit");
btnAddvehicles.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String vid=TextField.getText();
        String vname=TextField_1.getText();
        Float meter=Float.parseFloat(TextField_2.getText());
        String avail=TextField_3.getText();
        int cost=Integer.parseInt(TextField_4.getText());
        if(vid.equals("") || vname.equals("")|| avail.equals("") ) {
            JOptionPane.showMessageDialog(Addvehicle.this,"Unknown Error !!!\n TextField Cannot be
Blank");
        }
        else {
            if(vhicledetails.checkavailability(vid)) {
                JOptionPane.showMessageDialog(Addvehicle.this,"Book with Same Book ID is present
already\nInserton Failed !!!");
            }
            else {
                int i=vhicledetails.insertvehicle(vid, vname,meter,avail,cost );
                if(i>0){
                    JOptionPane.showMessageDialog(Addvehicle.this,"Books added successfully!");
                }else{
                    JOptionPane.showMessageDialog(Addvehicle.this,"Unknown Error !!!\nInsertion not
completed");
                }
            }
        }
    });
    btnAddvehicles.setFont(new Font("Tahoma", Font.PLAIN, 20));
    btnAddvehicles.setBackground(new Color(0,0,0));
    btnAddvehicles.setBounds(300, 400, 130, 50);
    contentPane.add(btnAddvehicles);

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {

```

```

        public void actionPerformed(ActionEvent e1) {
            vehicle.main(new String[]{} );
            frame.dispose();
        }
    });
    btnBack.setFont(new Font("Tahoma", Font.PLAIN, 20));
    btnBack.setBackground(new Color(240, 240, 240));
    btnBack.setBounds(450, 400, 130, 50);
    contentPane.add(btnBack);
}
}

```

Delete vehicle:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class deletevehicle extends JFrame {
    static deletevehicle frame;
    private JPanel contentPane;
    private JTextField textField;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new deletevehicle();
                    frame.setTitle("Delete vehicle Info.");
                    frame.setVisible(true);
                }
                catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
}

```

```

        } catch (Exception e) {
            e.printStackTrace();
        }
    });
}

/**
 * Create the frame.
 */
public deletevehicle() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 450, 200);

    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));

    setContentPane(contentPane);

    JLabel lblEnterId = new JLabel("Enter vehicle id :");

    textField = new JTextField();
    textField.setColumns(10);

    JButton btnDelete = new JButton("Delete");
    btnDelete.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            String sid=textField.getText();
            if(sid==null||sid.trim().equals("")){
                JOptionPane.showMessageDialog(deletevehicle.this,"id. can't be blank");
            }else{

                int i=vehicledetails.deletevehicle(sid);
                if(i>0){
                    JOptionPane.showMessageDialog(deletevehicle.this,"vehicle Record deleted
successfully!");
                }else{
                    JOptionPane.showMessageDialog(deletevehicle.this,"Unable to delete given
vehicle details.");
                }
            }
        });
    btnDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));

    JButton btnNewButton = new JButton("Back");
    btnNewButton.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            vehicle.main(new String[]{} );
            frame.dispose();
        }
    });
}

```

```

    });
    btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 13));
    GroupLayout gl_contentPane = new GroupLayout(contentPane);
    gl_contentPane.setHorizontalGroup(
        gl_contentPane.createParallelGroup(Alignment.LEADING)
            .addGroup(gl_contentPane.createSequentialGroup()
                .addGap(39)
                .addComponent(lblEnterId)
                .addGap(57)
                .addComponent(textField, GroupLayout.PREFERRED_SIZE, 178,
GroupLayout.PREFERRED_SIZE)
                    .addGapContainerGap(107, Short.MAX_VALUE))
            .addGroup(gl_contentPane.createSequentialGroup()
                .addGap(100)
                .addComponent(btnDelete)
                .addGap(30)
                .addComponent(btnNewButton)
            )
    );
    gl_contentPane.setVerticalGroup(
        gl_contentPane.createParallelGroup(Alignment.CENTER)
            .addGroup(gl_contentPane.createSequentialGroup()
                .addGap(19)
                .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                    .addComponent(textField, GroupLayout.PREFERRED_SIZE,
GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE)
                        .addComponent(lblEnterId))
                .addGap(33)
                .addGroup(gl_contentPane.createParallelGroup()
                    .addComponent(btnDelete)
                    .addComponent(btnNewButton)
            ))));
    contentPane.setLayout(gl_contentPane);
}
}

```

Update vehicle:

```

import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JLabel;
import javax.swing.JOptionPane;

import java.awt.Font;

```

```

import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.awt.event.ActionEvent;

public class updatevehicle extends JFrame {
    private static final long serialVersionUID = 1L;
    static updatevehicle frame;
    private JPanel contentPane;
    private JTextField TextField;
    private JTextField TextField_1;
    private JTextField TextField_2;
    private JTextField TextField_3;
    private JTextField TextField_4;
    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new updatevehicle();
                    frame.setTitle("vehicle Info.");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    /**
     * Create the frame.
     */
    public updatevehicle() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(110, 95, 700, 550);
        setResizable(false);

        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);

        TextField = new JTextField();

```

```

TextField.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField.setBounds(290, 125, 326, 40);
contentPane.add(TextField);
TextField.setColumns(10);

TextField_1 = new JTextField();
TextField_1.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField_1.setBounds(290, 175, 326, 40);
contentPane.add(TextField_1);
TextField_1.setColumns(10);

TextField_2 = new JTextField();
TextField_2.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField_2.setBounds(290, 225, 326, 40);
contentPane.add(TextField_2);
TextField_2.setColumns(10);

TextField_3 = new JTextField();
TextField_3.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField_3.setBounds(290, 275, 326, 40);
contentPane.add(TextField_3);
TextField_3.setColumns(10);

TextField_4 = new JTextField();
TextField_4.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField_4.setBounds(290, 325, 326, 40);
contentPane.add(TextField_4);
TextField_4.setColumns(10);

TextField.setText("");
    TextField_1.setText("");
    TextField_2.setText("");
    TextField_3.setText("");
    TextField_4.setText("");
    JLabel lblupdatevehicles = new JLabel("Modify Details");
lblupdatevehicles.setFont(new Font("Courier New", Font.BOLD, 36));
lblupdatevehicles.setForeground(Color.BLACK);
lblupdatevehicles.setBounds(150, 27, 400, 40);
contentPane.add(lblupdatevehicles);
    JLabel lblbookid = new JLabel("vehicle ID :");
lblbookid.setFont(new Font("Big Calson", Font.PLAIN, 18));
lblbookid.setBounds(45, 125, 326, 40);
contentPane.add(lblbookid);

    JLabel lblName = new JLabel("vehicle name :");
lblName.setFont(new Font("Freestyle Script", Font.PLAIN, 18));
lblName.setBounds(45, 175, 326, 40);
contentPane.add(lblName);

    JLabel lblAuthor = new JLabel("meter reading :");

```

```

lblAuthor.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblAuthor.setBounds(45, 225, 326, 40);
contentPane.add(lblAuthor);

JLabel lblName2 = new JLabel("availability:");
lblName2.setFont(new Font("Freestyle Script", Font.PLAIN, 18));
lblName2.setBounds(45, 275, 326, 40);
contentPane.add(lblName2);

JLabel lblAuthor3 = new JLabel("costpermile :");
lblAuthor3.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblAuthor3.setBounds(45, 325, 326, 40);
contentPane.add(lblAuthor3);

Connection con = DB.getConnection();

JButton btnupdatevehicles = new JButton("save");
btnupdatevehicles.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String vid=TextField.getText();
        String vname=TextField_1.getText();
        Float meter=Float.parseFloat(TextField_2.getText());
        String avail=TextField_3.getText();
        int cost=Integer.parseInt(TextField_4.getText());
        if(vehicledetails.checkavailability(vid) ) {
            try { PreparedStatement st = con.prepareStatement("Update vehicle_details set v_name=?,meter_reading=? ,availability=? ,costpermile=? where v_id=?");
                st.setString(1,vname);
                st.setString(3, avail);
                st.setFloat(2, meter);
                st.setInt(4, cost);
                st.setString(5, vid);
                st.executeUpdate();
                System.out.println("updated info for vehicle id : " + vid);
                JOptionPane.showMessageDialog(btnupdatevehicles, "Data Updated Successfully :)");
            } catch (SQLException sqlException) {
                sqlException.printStackTrace();
            }else{
                JOptionPane.showMessageDialog(updatevehicle.this,"Unknown Error !!!\nUpdation not completed");
            }
        });
        btnupdatevehicles.setFont(new Font("Tahoma", Font.PLAIN, 20));
        btnupdatevehicles.setBackground(new Color(0,0,0));
        btnupdatevehicles.setBounds(300, 400, 130, 50);
        contentPane.add(btnupdatevehicles);
    }
});

```

```

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e1) {
        vehicle.main(new String[] {});
        frame.dispose();
    }
});
btnBack.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnBack.setBackground(new Color(240, 240, 240));
btnBack.setBounds(450, 400, 130, 50);
contentPane.add(btnBack);

JButton btnLoad = new JButton("Load");
btnLoad.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String cid = TextField.getText();
        Connection con = DB.getConnection();
        if(vehicledetails.checkavailability(cid)) {
            Statement st;
            try {
                PreparedStatement stmt = con.prepareStatement("select * from vehicle_details
where v_id=?");
                stmt.setString(1,cid);
                ResultSet rs = stmt.executeQuery();
                while(rs.next())
                {
                    TextField.setText(rs.getString(1));
                    TextField_1.setText(rs.getString(2));
                    TextField_2.setText(Float.toString(rs.getFloat(3)));
                    TextField_3.setText(rs.getString(4));
                    TextField_4.setText(Integer.toString(rs.getInt(5)));
                }
            } catch (SQLException e1) {
                e1.printStackTrace();
            }else {
                JOptionPane.showMessageDialog(updatevehicle.this,"Vehicle ID is Invalid !!!");
                TextField.setText("");
                TextField_1.setText("");
                TextField_2.setText("");
                TextField_3.setText("");
                TextField_4.setText("");
            }
        }});
        btnLoad.setFont(new Font("Tahoma", Font.PLAIN, 20));
        btnLoad.setBackground(new Color(240, 240, 240));
        btnLoad.setBounds(150, 400, 130, 50);
        contentPane.add(btnLoad);
    }
}

```

}

View vehicle:

```
import java.awt.BorderLayout;
import java.awt.EventQueue;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.border.EmptyBorder;
import javax.swing.JTable;

public class viewvehicle extends JFrame {

    private JPanel contentPane;
    private JTable table;

    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    viewvehicle frame = new viewvehicle();
                    frame.setTitle("vehicles");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public viewvehicle() {
        setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
        setBounds(100, 100, 450, 300);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        contentPane.setLayout(new BorderLayout(0, 0));
        setContentPane(contentPane);
```

```

String data[][]=null;
String column[] = null;
try{
    Connection con=DB.getConnection();
    PreparedStatement ps=con.prepareStatement("select * from
vehicle_details",ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE);
    ResultSet rs=ps.executeQuery();

    ResultSetMetaData rsmd=rs.getMetaData();
    int cols=rsmd.getColumnCount();
    column=new String[cols];
    for(int i=1;i<=cols;i++){
        column[i-1]=rsmd.getColumnName(i);
    }

    rs.last();
    int rows=rs.getRow();
    rs.beforeFirst();

    data=new String[rows][cols];
    int count=0;
    while(rs.next()){
        for(int i=1;i<=cols;i++){
            data[count][i-1]=rs.getString(i);
        }
        count++;
    }
    con.close();
}catch(Exception e){System.out.println(e);}

table = new JTable(data,column);
table.setDefaultEditor(Object.class, null);
JScrollPane sp=new JScrollPane(table);

contentPane.add(sp, BorderLayout.CENTER);
}

}

```

Vehicle details:

```

import java.sql.Connection;
import java.sql.PreparedStatement;

```

```

import java.sql.ResultSet;

public class vehicledetails {

    public static boolean checkavailability(String v_id){
        boolean status=false;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("select * from vehicle_details where v_id=?");
            ps.setString(1,v_id);
            ResultSet rs=ps.executeQuery();
            status=rs.next();
            con.close();
        }catch(Exception e){System.out.println(e);}
        return status;
    }

    public static int insertvehicle(String v_id,String vname,float meter_reading,String availability,int costpermile){
        int status=0;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("insert into
vehicle_details(v_id,v_name,meter_reading,availability,costpermile) values(?,?,?,?,?)");
            ps.setString(1,v_id);
            ps.setString(2,vname);
            ps.setFloat(3,meter_reading);
            ps.setString(4,availability);
            ps.setInt(5,costpermile);
            status=ps.executeUpdate();
            con.close();
        }catch(Exception e){System.out.println(e);}
        return status;
    }

    public static int deletevehicle(String id){
        int status=0;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("delete from vehicle_details where v_id=?");
            ps.setString(1,id);
            status=ps.executeUpdate();
            con.close();
        }catch(Exception e){System.out.println(e);}
        return status;
    }
}

```

Booking:

```

import java.awt.EventQueue;
import javax.swing.JFrame;

```

```

import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class booking extends JFrame {
    private static final long serialVersionUID = 1L;
    static booking frame;
    private JPanel contentPane;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new booking();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public booking() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 450, 433);
        contentPane = new JPanel();
        contentPane.setForeground(Color.GRAY);
        contentPane.setBorder(new EmptyBorder(5, 5, 5));
        setContentPane(contentPane);

        JLabel lblSection = new JLabel("bookings Information");
        lblSection.setFont(new Font("Tahoma", Font.PLAIN, 22));

        JButton btnSAdd = new JButton("Add booking");
        btnSAdd.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                Addbooking.main(new String[]{});
                frame.dispose();
            }
        });
        btnSAdd.setFont(new Font("Tahoma", Font.PLAIN, 13));

        JButton btnSUpdate = new JButton("Modify booking Details");
        btnSUpdate.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent arg0) {

```

```

        updatebooking.main(new String[]{});
        frame.dispose();
    }
});

btnSUpdate.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnSDDelete = new JButton("Delete booking");
btnSDDelete.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        deletebooking.main(new String[]{});
        frame.dispose();
    }
});
btnSDDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnView = new JButton("View All bookings");
btnView.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        viewbookings.main(new String[]{});
    }
});
btnView.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        Menu.main(new String[]{});
        frame.dispose();
    }
});
btnBack.setFont(new Font("Tahoma", Font.PLAIN, 13));

GroupLayout gl_contentPane = new GroupLayout(contentPane);
gl_contentPane.setHorizontalGroup(
    gl_contentPane.createParallelGroup(Alignment.LEADING)
        .addGroup(Alignment.TRAILING, gl_contentPane.createSequentialGroup()
            .addContainerGap(81, Short.MAX_VALUE)
            .addComponent(lblSection)
            .addGap(54))
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGap(132)
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnView, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnSDDelete, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnSUpdate, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnSAdd, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(101, Short.MAX_VALUE))
);
gl_contentPane.setVerticalGroup(
    gl_contentPane.createParallelGroup(Alignment.LEADING)
        .addGroup(gl_contentPane.createSequentialGroup()

```

```

        .addContainerGap()
        .addComponent(lblSection)
        .addGap(18)
        .addComponent(btnSAdd, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
        .addGap(18)
        .addComponent(btnSUpdate, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
        .addGap(18)
        .addComponent(btnSDDelete, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
        .addGap(18)
        .addComponent(btnView, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
        .addGap(18)
        .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 37, GroupLayout.PREFERRED_SIZE)
        .addContainerGap(16, Short.MAX_VALUE))
    );
    contentPane.setLayout(gl_contentPane);
}

}

```

Add booking:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import javax.swing.JOptionPane;

import java.awt.Font;
import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.LayoutStyle.ComponentPlacement;

public class Addbooking extends JFrame {
    private static final long serialVersionUID = 1L;
    static Addbooking frame;
    private JPanel contentPane;
    private JTextField textField;
    private JTextField textField_1;
    private JTextField textField_2;
    private JTextField textField_3;

```

```

/**
 * Launch the application.
 */
public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                frame = new Addbooking();
                frame.setTitle("booking Info.");
                frame.setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

/**
 * Create the frame.
 */
public Addbooking() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 450, 404);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);

    JLabel lblAddbooking = new JLabel("Add booking");
    lblAddbooking.setForeground(Color.GRAY);
    lblAddbooking.setFont(new Font("Tahoma", Font.PLAIN, 18));

    JLabel lblid = new JLabel("booking id:");

    JLabel lblname = new JLabel("customer id :");

    JLabel lblcontact= new JLabel("vehicle id :");

    JLabel lbladdress = new JLabel("noofdays :");

    textField = new JTextField();
    textField.setColumns(10);

    textField_1 = new JTextField();
    textField_1.setColumns(10);

    textField_2 = new JTextField();
    textField_2.setColumns(10);
    textField_3 = new JTextField();
    textField_3.setColumns(10);

    JButton btnAdd = new JButton("Submit");
}

```

```

btnAdd.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String bookid=textField.getText();
        String cid=textField_1.getText();
        int noofdays=Integer.parseInt(textField_3.getText());
        String vid=textField_2.getText();
        if(bookingdetails.checkbooking(cid)) {
            JOptionPane.showMessageDialog(Addbooking.this,"Duplication of booking id is not
allowed\nInsertion not allowed");
        }
        else {
            int i=bookingdetails.insertbooking(bookid,cid,vid,noofdays);
            if(i>0){
                JOptionPane.showMessageDialog(Addbooking.this,"Added booking successfully!");
            }else{
                JOptionPane.showMessageDialog(Addbooking.this,"Sorry, unable to add booking");
            }
        }
    }
});

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e1) {
        booking.main(new String[]{} );
        frame.dispose();
    }
});
GroupLayout gl_contentPane = new GroupLayout(contentPane);
gl_contentPane.setHorizontalGroup(
    gl_contentPane.createParallelGroup(Alignment.TRAILING)
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(150)
                    .addComponent(lblAddbooking))
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(18)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(lblid)
                        .addComponent(lblname)
                        .addComponent(lblcontact)
                        .addComponent(lbladdress)
                    )))
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(47)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(textField_3,
GroupLayout.PREFERRED_SIZE, 167, GroupLayout.PREFERRED_SIZE)
                    )));
    }
});
```

```

        .addComponent(textField_2,
GroupLayout.PREFERRED_SIZE, 167, GroupLayout.PREFERRED_SIZE)
        .addComponent(textField_1,
GroupLayout.PREFERRED_SIZE, 167, GroupLayout.PREFERRED_SIZE)
        .addComponent(textField,
GroupLayout.PREFERRED_SIZE, 167, GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(125, Short.MAX_VALUE))
    .addGroup(Alignment.LEADING, gl_contentPane.createSequentialGroup()
        .addGap(50)
        .addComponent(btnAdd)
        addGap(30)
        .addComponent(btnBack)
        .addContainerGap())
);
gl_contentPane.setVerticalGroup(
    gl_contentPane.createParallelGroup(Alignment.LEADING)
    .addGroup(gl_contentPane.createSequentialGroup()
        .addComponent(lblAddbooking)
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(lblid)
            .addComponent(textField, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(lblname)
            .addComponent(textField_1, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(lblcontact)
            .addComponent(textField_2, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(lbladdress)
            .addComponent(textField_3, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18)
        .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
            .addComponent(btnAdd, GroupLayout.PREFERRED_SIZE, 31,
GroupLayout.PREFERRED_SIZE)
            .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 31,
GroupLayout.PREFERRED_SIZE)))
);
contentPane.setLayout(gl_contentPane);

```

```
 }  
  
 }
```

Delete booking:

```
import java.awt.BorderLayout;  
import java.awt.EventQueue;  
  
import javax.swing.JFrame;  
import javax.swing.JPanel;  
import javax.swing.border.EmptyBorder;  
import javax.swing.GroupLayout;  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.JLabel;  
import javax.swing.JOptionPane;  
import javax.swing.JTextField;  
import javax.swing.JButton;  
import java.awt.Font;  
import java.awt.event.ActionListener;  
import java.awt.event.ActionEvent;  
  
public class deletebooking extends JFrame {  
    static deletebooking frame;  
    private JPanel contentPane;  
    private JTextField textField;  
  
    /**  
     * Launch the application.  
     */  
    public static void main(String[] args) {  
        EventQueue.invokeLater(new Runnable() {  
            public void run() {  
                try {  
                    frame = new deletebooking();  
                    frame.setTitle("Delete booking Info.");  
                    frame.setVisible(true);  
                } catch (Exception e) {  
                    e.printStackTrace();  
                }  
            }  
        });  
    }  
}
```

```

        });
    }

    /**
     * Create the frame.
     */
    public deletebooking() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 450, 200);

        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));

        setContentPane(contentPane);

        JLabel lblEnterId = new JLabel("Enter booking id :");

        textField = new JTextField();
        textField.setColumns(10);

        JButton btnDelete = new JButton("Delete");
        btnDelete.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                String sid=textField.getText();
                if(sid==null||sid.trim().equals("")){
                    JOptionPane.showMessageDialog(deletebooking.this,"id. can't be blank");
                }else{

                    int i=bookingdetails.deletebooking(sid);
                    if(i>0){
                        JOptionPane.showMessageDialog(deletebooking.this,"booking Record
deleted successfully!");
                    }else{
                        JOptionPane.showMessageDialog(deletebooking.this,"Unable to delete
given booking details.!");
                    }
                }
            }
        });
        btnDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));

        JButton btnNewButton = new JButton("Back");
        btnNewButton.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                booking.main(new String[]{} );
                frame.dispose();
            }
        });
        btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 13));
        GroupLayout gl_contentPane = new GroupLayout(contentPane);
        gl_contentPane.setHorizontalGroup(

```

```

        gl_contentPane.createParallelGroup(Alignment.LEADING)
            .addGroup(gl_contentPane.createSequentialGroup()
                .addGap(39)
                .addComponent(lblEnterId)
                .addGap(57)
                .addComponent(textField, GroupLayout.PREFERRED_SIZE, 178,
GroupLayout.PREFERRED_SIZE)
                    .addContainerGap(107, Short.MAX_VALUE))
            .addGroup(gl_contentPane.createSequentialGroup()
                .addGap(100)
                .addComponent(btnDelete)
                .addGap(30)
                .addComponent(btnNewButton)
            )
        );
        gl_contentPane.setVerticalGroup(
            gl_contentPane.createParallelGroup(Alignment.CENTER)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(19)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(textField, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE)
                            .addComponent(lblEnterId))
                    .addGap(33)
                    .addGroup(gl_contentPane.createParallelGroup()
                        .addComponent(btnDelete)
                        .addComponent(btnNewButton)
                ))));
        contentPane.setLayout(gl_contentPane);
    }
}

```

Update booking:

```

import java.awt.Color;
import java.awt.EventQueue;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

```

```

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextField;
import javax.swing.border.EmptyBorder;

public class updatebooking extends JFrame {

    private static final long serialVersionUID = 1L;
    static updatebooking frame;
    private JPanel contentPane;
    private JTextField textField;
    private JLabel lblcid;
    private JTextField textField1;
    private JLabel lblcustomername;
    private JTextField textField2;
    private JLabel lblRecustomername;
    private JTextField textField3;
    private JLabel lbladdress;
    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new updatebooking();
                    frame.setTitle("Modify customer Info.");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public updatebooking() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(110, 95, 650, 380);
        setResizable(false);

        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);
    }
}

```

```

TextField = new JTextField();
TextField.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField.setBounds(290, 37, 326, 40);
contentPane.add(TextField);
TextField.setColumns(10);

TextField1 = new JTextField();
TextField1.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField1.setBounds(290, 87, 326, 40);
contentPane.add(TextField1);
TextField1.setColumns(10);

TextField2 = new JTextField();
TextField2.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField2.setBounds(290, 137, 326, 40);
contentPane.add(TextField2);
TextField2.setColumns(10);

TextField3 = new JTextField();
TextField3.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField3.setBounds(290, 187, 326, 40);
contentPane.add(TextField3);
TextField3.setColumns(10);

TextField.setText("");
    TextField1.setText("");
    TextField3.setText("");

Connection con = DB.getConnection();

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        frame.dispose();
        booking.main(new String[]{} );
    }
});
btnBack.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnBack.setBackground(new Color(240, 240, 240));
btnBack.setBounds(450, 275, 130, 50);
contentPane.add(btnBack);

JButton btnSave = new JButton("Save");
btnSave.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String cid = TextField.getText();
        String cname = TextField1.getText();
        int phn = Integer.parseInt(TextField3.getText());
        String add= TextField2.getText();
        if(bookingdetails.checkbooking(cid)) {
            try {

```

```

PreparedStatement st = con.prepareStatement("Update booking_details set c_id = ?,v_id= ?,no_of_days = ? where book_id=?");
st.setString(1, cname);
st.setString(2, add);
st.setInt(3, phn);
st.setString(4, cid);
st.executeUpdate();
System.out.println("updated info for booking id : " + cid);
JOptionPane.showMessageDialog(btnSave, "Data Updated Successfully :");

} catch (SQLException sqlException) {
    sqlException.printStackTrace();
}
else{
    JOptionPane.showMessageDialog(updatebooking.this,"Booking ID is Invalid !!!");
    TextField.setText("");
    TextField1.setText("");
    TextField2.setText("");
    TextField3.setText("");
}
}

});

btnSave.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnSave.setBackground(new Color(240, 240, 240));
btnSave.setBounds(300, 275, 130, 50);
contentPane.add(btnSave);

lblcid = new JLabel("Booking ID :");
lblcid.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblcid.setBounds(45, 37, 326, 40);
contentPane.add(lblcid);

lblcustomername = new JLabel("Customer ID :");
lblcustomername.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblcustomername.setBounds(45, 87, 326, 40);
contentPane.add(lblcustomername);

lblRecustomername = new JLabel("Vehicle ID :");
lblRecustomername.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblRecustomername.setBounds(45, 137, 326, 40);
contentPane.add(lblRecustomername);

lbladdress = new JLabel("No oF Days :");
lbladdress.setFont(new Font("Tahoma", Font.PLAIN, 18));
lbladdress.setBounds(45, 187, 326, 40);
contentPane.add(lbladdress);

```

```

 JButton btnLoad = new JButton("Load");
 btnLoad.addActionListener(new ActionListener() {
 public void actionPerformed(ActionEvent e) {
 String cid = TextField.getText();
 Connection con = DB.getConnection();
 if(bookingdetails.checkbooking(cid)) {
 Statement st;
 try {
 PreparedStatement stmt = con.prepareStatement("select * from booking_details where
book_id=?");
 stmt.setString(1,cid);
 ResultSet rs = stmt.executeQuery();
 while(rs.next())
 {
 TextField.setText(rs.getString(1));
 TextField1.setText(rs.getString(3));
 TextField2.setText(rs.getString(4));
 TextField3.setText(Integer.toString(rs.getInt(2)));
 }
 } catch (SQLException e1) {
 e1.printStackTrace();
 }}else {
 JOptionPane.showMessageDialog(updatebooking.this,"Customer ID is Invalid !!!");
 TextField.setText("");
 TextField1.setText("");
 TextField2.setText("");
 TextField3.setText("");
 }
 });
 btnLoad.setFont(new Font("Tahoma", Font.PLAIN, 20));
 btnLoad.setBackground(new Color(240, 240, 240));
 btnLoad.setBounds(150, 275, 130, 50);
 contentPane.add(btnLoad);
 }
}

```

View booking:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import javax.swing.JFrame;

```

```

import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.border.EmptyBorder;
import javax.swing.JTable;

public class viewbookings extends JFrame {

    private JPanel contentPane;
    private JTable table;

    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    viewbookings frame = new viewbookings();
                    frame.setTitle("bookings");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public viewbookings() {
        setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
        setBounds(100, 100, 450, 300);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        contentPane.setLayout(new BorderLayout(0, 0));
        setContentPane(contentPane);

        String data[][]=null;
        String column[]={};
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("select * from
booking_details",ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE);
            ResultSet rs=ps.executeQuery();

            ResultSetMetaData rsmd=rs.getMetaData();
            int cols=rsmd.getColumnCount();
            column=new String[cols];
            for(int i=1;i<=cols;i++){
                column[i-1]=rsmd.getColumnName(i);
            }

            rs.last();
        }
    }
}

```

```

        int rows=rs.getRow();
        rs.beforeFirst();

        data=new String[rows][cols];
        int count=0;
        while(rs.next()){
            for(int i=1;i<=cols;i++){
                data[count][i-1]=rs.getString(i);
            }
            count++;
        }
        con.close();
    }catch(Exception e){System.out.println(e);}

    table = new JTable(data,column);
    table.setDefaultCloseOperation(Object.class, null);
    JScrollPane sp=new JScrollPane(table);

    contentPane.add(sp, BorderLayout.CENTER);
}

}

```

Booking details:

```

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

public class bookingdetails {

    public static boolean checkbooking(String b_id){
        boolean status=false;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("select * from booking_details where book_id=?");
            ps.setString(1,b_id);
            ResultSet rs=ps.executeQuery();
            status=rs.next();
            con.close();
        }catch(Exception e){System.out.println(e);}
        return status;
    }

    public static int insertbooking(String book_id,String c_id,String v_id,int no_ofdays){
        int status=0;
        try{
            Connection con=DB.getConnection();

```

```

        PreparedStatement ps=con.prepareStatement("insert into
booking_details(book_id,c_id,v_id,no_of_days) values(?, ?, ?, ?)");
        ps.setString(1,book_id);
        ps.setString(2,c_id);
        ps.setString(3,v_id);
        ps.setInt(4,no_ofdays);
        status=ps.executeUpdate();
        con.close();
    }catch(Exception e){System.out.println(e);}
    return status;
}
public static int deletebooking(String id){
    int status=0;
    try{
        Connection con=DB.getConnection();
        PreparedStatement ps=con.prepareStatement("delete from booking_details where book_id=?");
        ps.setString(1,id);
        status=ps.executeUpdate();
        con.close();
    }catch(Exception e){System.out.println(e);}
    return status;
}
}

```

Invoice:

```

import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class invoice extends JFrame {
    private static final long serialVersionUID = 1L;
    static invoice frame;
    private JPanel contentPane;

    /**
     * Launch the application.
     */

```

```

/*
public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                frame = new invoice();
                frame.setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

/**
 * Create the frame.
 */
public invoice() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 450, 433);
    contentPane = new JPanel();
    contentPane.setForeground(Color.GRAY);
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);

    JLabel lblSection = new JLabel("invoices Information");
    lblSection.setFont(new Font("Tahoma", Font.PLAIN, 22));

    JButton btnSAdd = new JButton("Add invoice");
    btnSAdd.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            Addinvoice.main(new String[]{} );
            frame.dispose();
        }
    });
    btnSAdd.setFont(new Font("Tahoma", Font.PLAIN, 13));

    JButton btnSUpdate = new JButton("Modify invoice Details");
    btnSUpdate.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent arg0) {
            updateinvoice.main(new String[]{} );
            frame.dispose();
        }
    });
    btnSUpdate.setFont(new Font("Tahoma", Font.PLAIN, 13));

    JButton btnSDelete = new JButton("Delete invoice");
    btnSDelete.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            deleteinvoice.main(new String[]{} );
            frame.dispose();
        }
    });
}

```

```

    }
});

btnSDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnView = new JButton("View All invoices");
btnView.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        viewinvoice.main(new String[]{});

    }
});
btnView.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        Menu.main(new String[]{});
        frame.dispose();
    }
});
btnBack.setFont(new Font("Tahoma", Font.PLAIN, 13));

GroupLayout gl_contentPane = new GroupLayout(contentPane);
gl_contentPane.setHorizontalGroup(
    gl_contentPane.createParallelGroup(Alignment.LEADING)
        .addGroup(Alignment.TRAILING, gl_contentPane.createSequentialGroup()
            .addContainerGap(81, Short.MAX_VALUE)
            .addComponent(lblSection)
            .addGap(54))
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGap(132)
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnView, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnSDelete, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnSUpdate, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnSAdd, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)))
            .addContainerGap(101, Short.MAX_VALUE))
);
gl_contentPane.setVerticalGroup(
    gl_contentPane.createParallelGroup(Alignment.LEADING)
        .addGroup(gl_contentPane.createSequentialGroup()
            .addContainerGap()
            .addComponent(lblSection)
            .addGap(18)

```

```

        .addComponent(btnSAdd, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)

        .addGap(18)
.addComponent(btnSUpdate, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)

        .addGap(18)
.addComponent(btnSDelete, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)

        .addGap(18)
.addComponent(btnView, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)

        .addGap(18)
.addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)

        .addContainerGap(16, Short.MAX_VALUE))
);

contentPane.setLayout(gl_contentPane);
}

}

```

Add invoice:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import javax.swing.JOptionPane;

import java.awt.Font;
import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.LayoutStyle.ComponentPlacement;

public class Addinvoice extends JFrame {
    private static final long serialVersionUID = 1L;
    static Addinvoice frame;
    private JPanel contentPane;
    private JTextField textField;
    private JTextField textField_1;

```

```

private JTextField textField_2;
private JTextField textField_3;

/**
 * Launch the application.
 */
public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                frame = new Addinvoice();
                frame.setTitle("invoice Info.");
                frame.setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

/**
 * Create the frame.
 */
public Addinvoice() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 450, 404);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);

    JLabel lblAddinvoice = new JLabel("Add invoice ");
    lblAddinvoice.setForeground(Color.GRAY);
    lblAddinvoice.setFont(new Font("Tahoma", Font.PLAIN, 18));

    JLabel lblname = new JLabel("bill id:");

    JLabel lblrollno = new JLabel("bill date:");

    JLabel lblbranch = new JLabel("totalamount :");

    JLabel lblcourse = new JLabel("bookid :");

    textField = new JTextField();
    textField.setColumns(10);

    textField_1 = new JTextField();
    textField_1.setColumns(10);

    textField_2 = new JTextField();
    textField_2.setColumns(10);
    textField_3 = new JTextField();
}

```

```

textField_3.setColumns(10);

JButton btnAdd = new JButton("Submit");
btnAdd.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String billid=textField.getText();
        String billdate=textField_1.getText();
        int totalamount=Integer.parseInt(textField_2.getText());
        String bookid=textField_3.getText();
        if(invoicedetails.checkinvoic(billid)) {
            JOptionPane.showMessageDialog(Addinvoice.this,"Duplication of Roll Number not
allowed\nInsertion not allowed");
        }
        else {
            int i=invoicedetails.insertinvoic(billid,bilddate,totalamount,bookid);
            if(i>0){
                JOptionPane.showMessageDialog(Addinvoice.this,"Added Student successfully!");
            }else{
                JOptionPane.showMessageDialog(Addinvoice.this,"Sorry, unable to add Student");
            }
        }
    }
});

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e1) {
        invoice.main(new String[]{} );
        frame.dispose();
    }
});

GroupLayout gl_contentPane = new GroupLayout(contentPane);
gl_contentPane.setHorizontalGroup(
    gl_contentPane.createParallelGroup(Alignment.TRAILING)
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(150)
                    .addComponent(lblAddinvoice))
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(18)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(lblname)
                        .addComponent(lblrrollno)
                        .addComponent(lblbranch)
                        .addComponent(lblcourse)
                    )
                )
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(47)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(lblname)
                        .addComponent(lblrrollno)
                        .addComponent(lblbranch)
                        .addComponent(lblcourse)
                    )
                )
            )
        )
    )
);

```

ING, false)

ING)

```

                .addComponent(textField_3,
GroupLayout.PREFERRED_SIZE, 167, GroupLayout.PREFERRED_SIZE)
                .addComponent(textField_2,
GroupLayout.PREFERRED_SIZE, 167, GroupLayout.PREFERRED_SIZE)
                .addComponent(textField_1,
GroupLayout.PREFERRED_SIZE, 167, GroupLayout.PREFERRED_SIZE)
                .addComponent(textField,
GroupLayout.PREFERRED_SIZE, 167, GroupLayout.PREFERRED_SIZE)))
                .addContainerGap(125, Short.MAX_VALUE))
            .addGroup(Alignment.LEADING, gl_contentPane.createSequentialGroup()
                .addGap(50)
                .addComponent(btnAdd)
                .addGap(30)
                .addComponent(btnBack)
                .addContainerGap())
        );
    gl_contentPane.setVerticalGroup(
        gl_contentPane.createParallelGroup(Alignment.LEADING)
            .addGroup(gl_contentPane.createSequentialGroup()
                .addComponent(lblAddinvoice)
                .addGap(18)
                .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
                    .addComponent(lblname)
                    .addComponent(textField, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
                .addGap(18)
                .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
                    .addComponent(lblrollno)
                    .addComponent(textField_1, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
                .addGap(18)
                .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
                    .addComponent(lblbranch)
                    .addComponent(textField_2, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
                .addGap(18)
                .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
                    .addComponent(lblcourse)
                    .addComponent(textField_3, GroupLayout.PREFERRED_SIZE,
GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
                .addGap(18)
                .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
                    .)
                .addGap(30)
                .addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE)
                    .addComponent(btnAdd, GroupLayout.PREFERRED_SIZE, 31,
GroupLayout.PREFERRED_SIZE)
                    .addComponent(btnBack, GroupLayout.PREFERRED_SIZE, 31,
GroupLayout.PREFERRED_SIZE)))

```

```

        );
        contentPane.setLayout(gl_contentPane);
    }

}

```

Delete invoice:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class deleteinvoice extends JFrame {
    static deleteinvoice frame;
    private JPanel contentPane;
    private JTextField textField;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new deleteinvoice();
                    frame.setTitle("Delete invoice Info.");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
}

```

```

        }
    });
}

/***
 * Create the frame.
 */
public deleteinvoice() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 450, 200);

    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));

    setContentPane(contentPane);

    JLabel lblEnterId = new JLabel("Enter invoice id :");

    textField = new JTextField();
    textField.setColumns(10);

    JButton btnDelete = new JButton("Delete");
    btnDelete.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            String sid=textField.getText();
            if(sid==null||sid.trim().equals("")){
                JOptionPane.showMessageDialog(deleteinvoice.this,"id. can't be blank");
            }else{

                int i=voicedetails.deleteinvoice(sid);
                if(i>0){
                    JOptionPane.showMessageDialog(deleteinvoice.this,"invoice Record
deleted successfully!");
                }else{
                    JOptionPane.showMessageDialog(deleteinvoice.this,"Unable to delete
given invoice details.!");
                }
            }
        }
    });
    btnDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));

    JButton btnNewButton = new JButton("Back");
    btnNewButton.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            invoice.main(new String[]{} );
            frame.dispose();
        }
    });
    btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 13));
}

```

```

        GroupLayout gl_contentPane = new GroupLayout(contentPane);
        gl_contentPane.setHorizontalGroup(
            gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(39)
                    .addComponent(lblEnterId)
                    .addGap(57)
                    .addComponent(textField, GroupLayout.PREFERRED_SIZE, 178,
                    GroupLayout.PREFERRED_SIZE)
                    .addContainerGap(107, Short.MAX_VALUE)))
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(100)
                    .addComponent(btnDelete)
                    .addGap(30)
                    .addComponent(btnNewButton)
                )
            );
        gl_contentPane.setVerticalGroup(
            gl_contentPane.createParallelGroup(Alignment.CENTER)
                .addGroup(gl_contentPane.createSequentialGroup()
                    .addGap(19)
                    .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addComponent(textField, GroupLayout.PREFERRED_SIZE,
                        GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE)
                        .addComponent(lblEnterId))
                    .addGap(33)
                    .addGroup(gl_contentPane.createParallelGroup()
                        .addComponent(btnDelete)
                        .addComponent(btnNewButton)
                    )));
        contentPane.setLayout(gl_contentPane);
    }
}

```

Update invoice:

```

import java.awt.Color;
import java.awt.EventQueue;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

```

```

import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextField;
import javax.swing.border.EmptyBorder;

public class updateinvoice extends JFrame {

    private static final long serialVersionUID = 1L;
    static updateinvoice frame;
    private JPanel contentPane;
    private JTextField TextField;
    private JLabel lblcid;
    private JTextField TextField1;
    private JLabel lblcustomername;
    private JTextField TextField2;
    private JLabel lblRecustomername;
    private JTextField TextField3;
    private JLabel lbladdress;
    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    frame = new updateinvoice();
                    frame.setTitle("Modify invoice Info.");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public updateinvoice() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(110, 95, 650, 380);
        setResizable(false);

        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
    }
}

```

```

contentPane.setLayout(null);

TextField = new JTextField();
TextField.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField.setBounds(290, 37, 326, 40);
contentPane.add(TextField);
TextField.setColumns(10);

TextField1 = new JTextField();
TextField1.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField1.setBounds(290, 87, 326, 40);
contentPane.add(TextField1);
TextField1.setColumns(10);

TextField2 = new JTextField();
TextField2.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField2.setBounds(290, 137, 326, 40);
contentPane.add(TextField2);
TextField2.setColumns(10);

TextField3 = new JTextField();
TextField3.setFont(new Font("Tahoma", Font.PLAIN, 18));
TextField3.setBounds(290, 187, 326, 40);
contentPane.add(TextField3);
TextField3.setColumns(10);

TextField.setText("");
TextField1.setText("");
TextField3.setText("");

Connection con = DB.getConnection();

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        frame.dispose();
        invoice.main(new String[]{});
    }
});
btnBack.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnBack.setBackground(new Color(240, 240, 240));
btnBack.setBounds(450, 275, 130, 50);
contentPane.add(btnBack);

JButton btnSave = new JButton("Save");
btnSave.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String cid = TextField.getText();
        String cname = TextField1.getText();
        int phn = Integer.parseInt(TextField2.getText());
        String add= TextField3.getText();
        if(invoicedetails.checkinvoice(cid)) {
            try {

```

```

PreparedStatement st = con.prepareStatement("Update invoice set bill_date=? ,totalamount = ?,book_id=? where
bill_id=?");

st.setString(1, cname);
st.setString(3, add);
st.setInt(2, phn);
st.setString(4, cid);
st.executeUpdate();
System.out.println("updated info for bill id : " + cid);
JOptionPane.showMessageDialog(btnSave, "Data Updated Successfully :)");

} catch (SQLException sqlException) {
    sqlException.printStackTrace();
}

else{
    JOptionPane.showMessageDialog(updateinvoice.this,"Bill ID is Invalid !!!");
    TextField.setText("");
    TextField1.setText("");
    TextField2.setText("");
    TextField3.setText("");
}

});

btnSave.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnSave.setBackground(new Color(240, 240, 240));
btnSave.setBounds(300, 275, 130, 50);
contentPane.add(btnSave);

lblcid = new JLabel("Bill ID : ");
lblcid.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblcid.setBounds(45, 37, 326, 40);
contentPane.add(lblcid);

lblcustomername = new JLabel("Bill Date:");
lblcustomername.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblcustomername.setBounds(45, 87, 326, 40);
contentPane.add(lblcustomername);

lblRecustomername = new JLabel("Total amount :");
lblRecustomername.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblRecustomername.setBounds(45, 137, 326, 40);
contentPane.add(lblRecustomername);

lbladdress = new JLabel("Book ID :");
lbladdress.setFont(new Font("Tahoma", Font.PLAIN, 18));
lbladdress.setBounds(45, 187, 326, 40);
contentPane.add(lbladdress);

```

```

JButton btnLoad = new JButton("Load");
btnLoad.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String cid = TextField.getText();
        Connection con = DB.getConnection();
        if(invoicedetails.checkinvoce(cid)) {
            Statement st;
            try {
                PreparedStatement stmt = con.prepareStatement("select * from invoice where bill_id=?");
                stmt.setString(1,cid);
                ResultSet rs = stmt.executeQuery();
                while(rs.next())
                    { TextField.setText(rs.getString(1));
                    TextField1.setText(rs.getString(2));
                    TextField2.setText(Integer.toString(rs.getInt(3)));
                    TextField3.setText(rs.getString(4));
                }
            } catch (SQLException e1) {
                e1.printStackTrace();
            } }else {
                JOptionPane.showMessageDialog(updateinvoice.this,"Bill ID is Invalid !!!");
                TextField.setText("");
                TextField1.setText("");
                TextField2.setText("");
                TextField3.setText("");
            }
        }
    });
btnLoad.setFont(new Font("Tahoma", Font.PLAIN, 20));
btnLoad.setBackground(new Color(240, 240, 240));
btnLoad.setBounds(150, 275, 130, 50);
contentPane.add(btnLoad);

}
}

```

View invoice:

```

import java.awt.BorderLayout;
import java.awt.EventQueue;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;

```

```

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.border.EmptyBorder;
import javax.swing.JTable;

public class viewinvoce extends JFrame {

    private JPanel contentPane;
    private JTable table;

    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    viewinvoce frame = new viewinvoce();
                    frame.setTitle("invoice");
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public viewinvoce() {
        setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
        setBounds(100, 100, 450, 300);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        contentPane.setLayout(new BorderLayout(0, 0));
        setContentPane(contentPane);

        String data[][]=null;
        String column[]=null;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("select * from
invoice",ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE);
            ResultSet rs=ps.executeQuery();

            ResultSetMetaData rsmd=rs.getMetaData();
            int cols=rsmd.getColumnCount();
            column=new String[cols];
            for(int i=1;i<=cols;i++){
                column[i-1]=rsmd.getColumnName(i);
            }
        }
    }
}

```

```

        rs.last();
        int rows=rs.getRow();
        rs.beforeFirst();

        data=new String[rows][cols];
        int count=0;
        while(rs.next()){
            for(int i=1;i<=cols;i++){
                data[count][i-1]=rs.getString(i);
            }
            count++;
        }
        con.close();
    }catch(Exception e){System.out.println(e);}

    table = new JTable(data,column);
    table.setDefaultEditor(Object.class, null);
    JScrollPane sp=new JScrollPane(table);

    contentPane.add(sp, BorderLayout.CENTER);
}

}

```

Invoice details:

```

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

public class invoicedetails {

    public static boolean checkinvoice(String billid){
        boolean status=false;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("select * from invoice where bill_id=?");
            ps.setString(1,billid);
            ResultSet rs=ps.executeQuery();
            status=rs.next();
            con.close();
        }catch(Exception e){System.out.println(e);}
    }
}

```

```

        return status;
    }
    public static int insertinvoice(String bill_id,String bill_date,int totalamount,String book_id){
        int status=0;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("insert into
invoice(bill_id,bill_date,totalamount,book_id) values(?, ?, ?, ?)");
            ps.setString(1,bill_id);
            ps.setString(2,bill_date);
            ps.setInt(3,totalamount);
            ps.setString(4,book_id);

            status=ps.executeUpdate();
            con.close();
        }catch(Exception e){System.out.println(e);}
        return status;
    }
    public static int deleteinvoice(String id){
        int status=0;
        try{
            Connection con=DB.getConnection();
            PreparedStatement ps=con.prepareStatement("delete from invoice where bill_id=?");
            ps.setString(1,id);
            status=ps.executeUpdate();
            con.close();
        }catch(Exception e){System.out.println(e);}
        return status;
    }
}

```

Menu:

```

import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class Menu extends JFrame {

```

```

private static final long serialVersionUID = 1L;
static Menu frame;
private JPanel contentPane;
static String idd;

/**
 * Launch the application.
 */
public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                frame = new Menu();
                frame.setTitle("cab rental system");
                frame.setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

public static void id(String id) {
    idd=id;
}

/**
 * Create the frame.
 */
public Menu() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 450, 433);
    contentPane = new JPanel();
    contentPane.setForeground(Color.GRAY);
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);

    JLabel lblLibrarianSection = new JLabel("CAB RENTAL SYSTEM ");
    lblLibrarianSection.setFont(new Font("COURIER NEW", Font.BOLD , 40));

    JButton btnBInfo = new JButton("customer Info");
    btnBInfo.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            customer.main(new String[]{} );
            frame.dispose();
        }
    });
    btnBInfo.setFont(new Font("Tahoma", Font.PLAIN, 13));

    JButton btnSInfo = new JButton("vehicle Info");
    btnSInfo.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent arg0) {
            vehicle.main(new String[]{} );
        }
    });
}

```

```

        frame.dispose();
    }
});

btnSInfo.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnIssueBook = new JButton("booking");
btnIssueBook.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        booking.main(new String[] {});
        frame.dispose();
    }
});
btnIssueBook.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnReturnBook = new JButton("invoice");
btnReturnBook.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        invoice.main(new String[] {});
        frame.dispose();
    }
});
btnReturnBook.setFont(new Font("Tahoma", Font.PLAIN, 13));

JButton btnLogout = new JButton("close");
btnLogout.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        frame.dispose();
    }
});
btnLogout.setFont(new Font("Tahoma", Font.PLAIN, 13));
GroupLayout gl_contentPane = new GroupLayout(contentPane);
gl_contentPane.setHorizontalGroup(
    gl_contentPane.createParallelGroup(Alignment.LEADING)
        .addGroup(Alignment.TRAILING, gl_contentPane.createSequentialGroup()
            .addGap(81, Short.MAX_VALUE)
            .addComponent(lblLibrarianSection)
            .addGap(54))
        .addGroup(gl_contentPane.createSequentialGroup()
            .addGap(132)
            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)
                .addComponent(btnLogout, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnReturnBook, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnIssueBook, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)
                .addComponent(btnSInfo, GroupLayout.PREFERRED_SIZE, 191,
                    GroupLayout.PREFERRED_SIZE)))
);

```

```

        .addComponent(btnBInfo, GroupLayout.PREFERRED_SIZE, 191,
GroupLayout.PREFERRED_SIZE))
        .addContainerGap(101, Short.MAX_VALUE))
    );
    gl_contentPane.setVerticalGroup(
        gl_contentPane.createParallelGroup(Alignment.LEADING)
            .addGroup(gl_contentPane.createSequentialGroup()
                .addContainerGap()
                .addComponent(lblLibrarianSection)
                .addGap(18)
                .addComponent(btnBInfo, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)
                .addGap(18)
                .addComponent(btnSInfo, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)
                .addGap(18)
                .addComponent(btnIssueBook, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)
                .addGap(18)
                .addComponent(btnReturnBook, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)
                .addGap(18)
                .addComponent(btnLogout, GroupLayout.PREFERRED_SIZE, 37,
GroupLayout.PREFERRED_SIZE)
                .addContainerGap(16, Short.MAX_VALUE)))
    );
    contentPane.setLayout(gl_contentPane);
}
}

```

Github links and folder structure:

Link: <https://github.com/Sruthi9154/>

cabrentalsystem.git

TESTING:

OUTPUT SCREENSHOTS:

Modify customer info.

customer :	<input type="text" value="c5"/>
customer name :	<input type="text" value="shiva"/>
phone number:	<input type="text" value="8745745"/>
address :	<input type="text" value="kazipet"/>

Load **Save** **Back**

booking

invoice

close

customer info.

Add customer

customer id:	<input type="text" value="c1"/>
customer name :	<input type="text" value="arun"/>
phone number :	<input type="text" value="9154874363"/>
address :	<input type="text" value="hyd"/>

Submit

Message



Data Updated Successfully

OK

vehicle info.

Modify Details

vehicle ID :	v5
vehicle name :	volkswagen
meter reading :	36.383
availability:	yes
costpermile :	20

Message

Data Updated Successfully :)

OK

Load save Back

vam	c10	69364	hyd
vishnu	c11	6598765432	hyd
sruthi	c20	123457657	hyd
sru	c23	223456789	kmm
sruthi	c24	9876543215	
shiva	c5	8745745	kazipet
arith	c7	61245	vizag
avi	c8	61245	vizag
druvi	c9	61364	hyd

Delete vehicle Info.

Enter vehicle id : v14

Delete Back

Message

vehicle Record deleted successfully!

OK

Modify customer Info.

Booking ID : b41

Customer ID : c8

Vehicle ID : v4

No oF Days : 32

Load Save Back

Add booking

booking id: b1

customer id : c1

vehicle id : v4

noofdays : 30

Submit Back

Message

Data Updated Successfully :)

OK

Message

Added booking successfully!

OK

invoice Info.

Add invoice

bill id:

bill date:

total amount :

bookid :

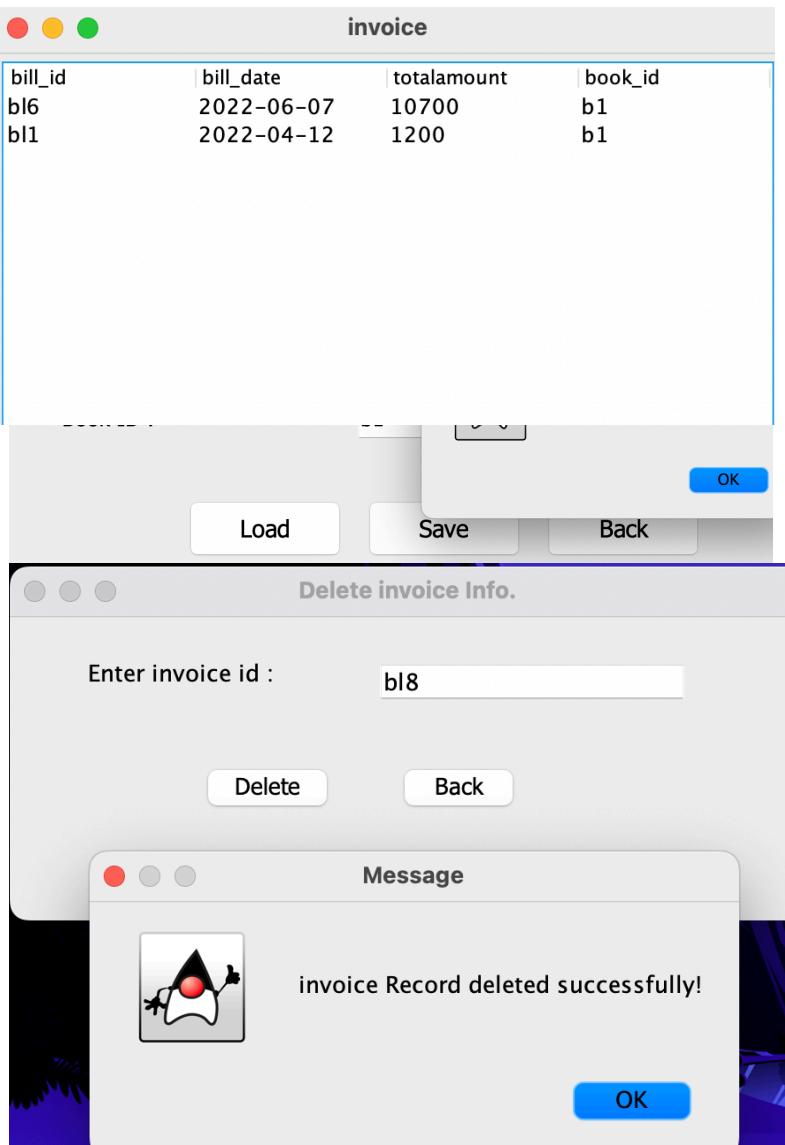
 Submit

 Message

Added invoice successfully!

 OK

 Back



```
srikarbhooma — mysql -u root -p — 80x24
+-----+
| sruthi | c24  | 9876543215 |           |
| shiva  | c5   | 8745745  | kazipet  |
| arith  | c7   | 61245   | vizag    |
| avi    | c8   | 61245   | vizag    |
| druvi  | c9   | 61364   | hyd      |
+-----+
10 rows in set (0.00 sec)

[mysql] > select * from vehicle_details;
+-----+
| v_id | v_name      | meter_reading | availability | costpermile |
+-----+
| v10  | sedan       | 29.600       | no          | 15          |
| v2   | swift       | 23.000       | yes         | 18          |
| v4   | skoda       | 36.350       | yes         | 15          |
| v5   | volkswagen | 36.383       | yes         | 20          |
| v6   | suzuki     | 32.350       | no          | 17          |
| v7   | dzire      | 33.600       | no          | 15          |
| v8   | dzire      | 30.000       | yes         | 15          |
| v9   | kia         | 29.600       | yes         | 15          |
+-----+
8 rows in set (0.00 sec)

mysql>
```

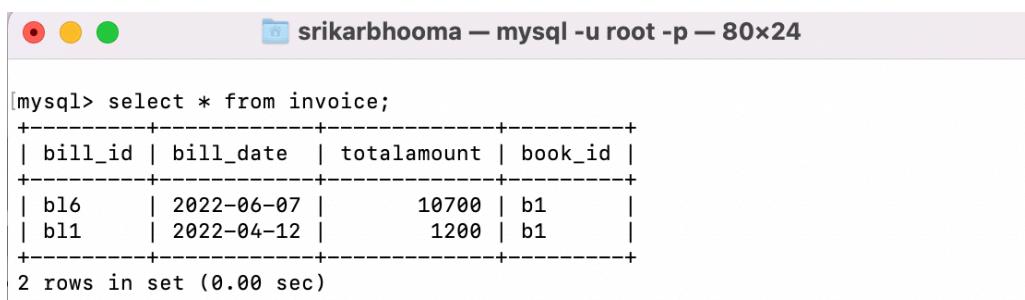
```
+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

```
[mysql]> select * from booking_details;
+-----+-----+-----+-----+
| book_id | no_of_days | c_id | v_id |
+-----+-----+-----+-----+
| b1      |      30    | c1   | v4   |
| b41     |      32    | c8   | v4   |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> █
```

```
[mysql]> select * from customer;
+-----+-----+-----+-----+
| cname | c_id | phn_no      | address |
+-----+-----+-----+-----+
| arun  | c1   | 9154874363 | hyd    |
| vam   | c10  | 69364       | hyd    |
| vishnu | c11  | 6598765432 | hyd    |
| sruthi | c20  | 123457657  | hyd    |
| sru   | c23  | 223456789  | kmm    |
| sruthi | c24  | 9876543215 |         |
| shiva | c5   | 8745745     | kazipet|
| arith | c7   | 61245       | vizag  |
| avi   | c8   | 61245       | vizag  |
| druvi | c9   | 61364       | hyd    |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> █
```



```
srikarbhooma — mysql -u root -p — 80x24
```

```
[mysql]> select * from invoice;
+-----+-----+-----+-----+
| bill_id | bill_date | totalamount | book_id |
+-----+-----+-----+-----+
| b16    | 2022-06-07 |      10700  | b1      |
| b11    | 2022-04-12 |      1200   | b1      |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

DISCUSSION AND FUTURE WORK

So far this project has helped to generate invoice easily for cabs. In the future, we try to include some more features according to the need which helps to generate invoice easier.

REFERENCES:

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