CSE110 Object Oriented Programming
Summer22
East West University
Department of Computer Science and Engineering

PROJECT

Bus Reservation Management System.

SUBMITTED TO:

Mahamudul Hasan
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SUBMITTED BY:

Name: *B M Shahria Alam*
ID: *2021-3-60-016*

Name: *Sidratul Moontaha*
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ID: 2021-3-60-056

Project Declaration

(Student 1)

Student ID: 2021-3-60-016
Name: B M Shahria Alam
Session: Summer22
Date of Submission: 06-09-2022
My contribution in doing this project (%) in the group: 60%
Description of my contribution to this project in the group:
Admin Login, User Login, Signup, Ticket Booking, Cancel, Ticket price.
Number of days I spent doing this project: 5 Days

(Student 2)

Student ID: 2021-3-60-048
Name: Sidratul Moontaha
Session: Summer22
Date of Submission: 06-09-2022
My contribution in doing this project (%) in the group: 20%
Description of my contribution to this project in the group: Total Booking, Total Sell & Bus List.
Number of days I spent doing this project: 4 Days.

(Student 3)

Student ID: 2021-3-60-056
Name: Antara Sarkar Rupa
Session: Summer22
Date of Submission: 06-09-2022
My contribution in doing this project (%) in the group: 20%
Description of my contribution to this project in the group:
Welcome, Admin Interface, User Interface, Project Report writing.
Number of days I spent doing this project: 4 Days.

We hereby certify that this project represents the work done by all our group members with our contribution clearly stated above without copying from any other resources. We declare that no part of our work has been copied from or by other groups and that no collusion has taken place with any other persons or groups.

INTRODUCTION OF BUS RESERVATION MANAGEMENT SYSTEM.

1) Project Abstract: The bus reservation management application presented here is a very simple console application developed using java swing. It has been compiled using IDE Intelligence and NetBeans. We used file to store data to make this program memory efficient.
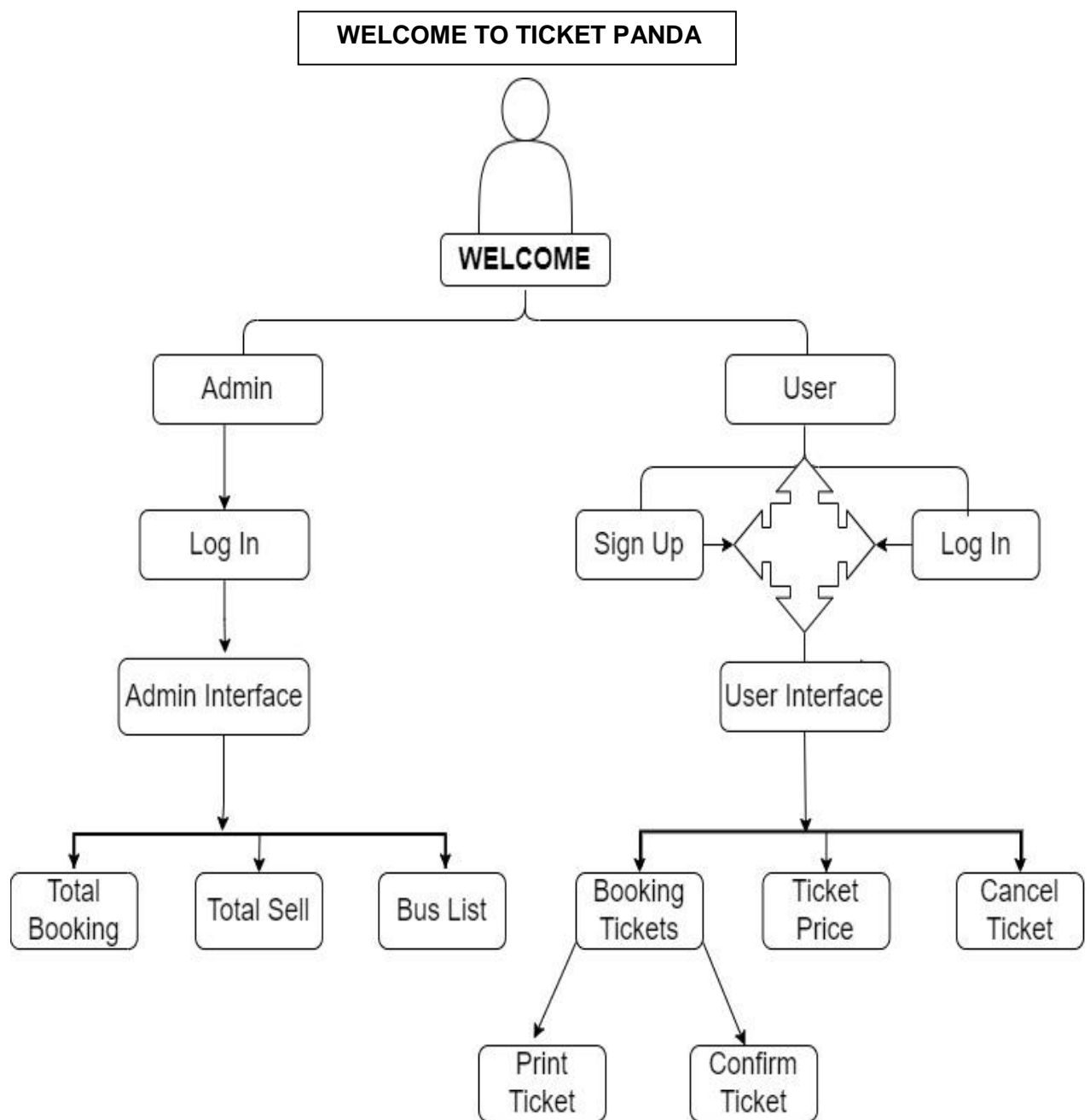
2) Feature: As an admin, you can see the total booking, total sales of tickets, and the bus list using this application. As a buyer, one can book his tickets and after booking, he/she can also cancel his/her tickets. Users also can see his/her total Ticket price list. While booking, the user can also choose his/her favorite destination and number of tickets. After booking tickets, one can see the total payment slip.

3) Working: At first admin needs to login into this program using a password to get admin panel access. Admin can see the total booking, total sales of tickets, and the bus list using this application. After the cancelation of tickets, the total amount is deducted from the total price of selling tickets. Then the user also needs to sign up first then login into this program to get access of user panel. Users can also see the ticket price and choose his/her favorite destination and number of tickets. After booking tickets, a payment slip will be shown to the user.

4) Future update:

In future, we will try to add the journey date and time.

SYSTEM DIAGRAM

WELCOME TO TICKET PANDA

WELCOME

Admin

Log In

Admin Interface

Total Booking

Total Sell

Bus List

User

Sign Up

Log In

User Interface

Booking Tickets

Ticket Price

Cancel Ticket

Print Ticket

Confirm Ticket

SOURCE CODE:

Main Controller:

```java
public class MainController
{
    public static void main(String[] args)
    {
      new  UserTotalBooking();
    }
}
```

Welcome:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.Font;
import java.awt.event.*;

class Welcome
{
    JFrame f = new JFrame("Ticket Panda");
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    JLabel l =new JLabel("Welcome to Ticket Panda");
    Font fh=new Font("Trebuchet MS",Font.BOLD,20);
    JButton a = new JButton("USER");
    JButton b = new JButton("ADMIN");
    Color clr1=new Color(3, 3, 3);
    Color clr2=new Color(253, 253, 253);
    public Welcome()
    {
        JLabel bg;
        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\6.jpg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,800,500);

        a.setBounds(420, 310, 105, 43);
        b.setBounds(250, 310, 105, 43);
        l.setBounds(262, 110, 250, 43);

        a.setCursor(cr);
        b.setCursor(cr);
        l.setFont(fh);
        l.setForeground(clr1);
        l.setOpaque(true);
       l.setBackground(clr2);
        f.add(l);
        f.add(a);
        f.add(b);
        f.add(bg);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new UserLogin();
                f.setVisible(false);
            }
        });

        b.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new AdminLogin ();
                f.setVisible(false);
            }
        });
        f.setSize(800, 500);
        f.setLayout(null);
        f.setVisible(true);
        f.setLocationRelativeTo(null);
```
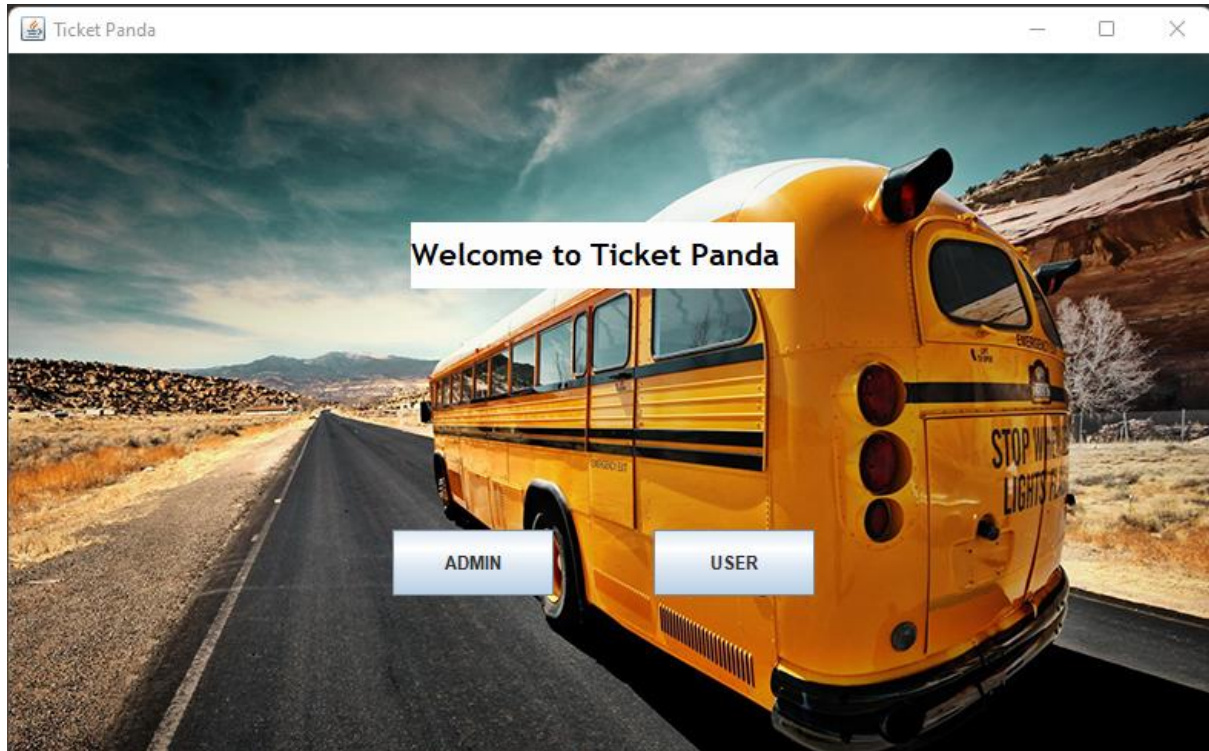
```
        }
}
```

Result:

Admin Login Panel:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.util.Scanner;

public class AdminLogin implements ActionListener
{
    JFrame f = new JFrame("Admin Login Panel");
    Color clr1 = new Color(252, 251, 251);
    Color clr2 = new Color(192, 192, 192);
    JTextField txt1 = new JTextField();
    JPasswordField pass = new JPasswordField();
    JLabel lbl = new JLabel();
    JLabel lbl1 = new JLabel();
    JLabel lbl2 = new JLabel();
    JButton btn = new JButton();
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    Font fh = new Font("Trebuchet MS", Font.BOLD, 30);
    Font fs = new Font("Trebuchet MS", Font.BOLD, 13);
    Container c = f.getContentPane();

    public AdminLogin ()
    {

        f.setVisible(true);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setBounds(430, 120, 425, 375);
        f.setTitle("Admin Login Panel");
        f.setResizable(false);
        f.setLocationRelativeTo(null);
```

```java
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        c.setBackground(clr1);
        c.setLayout(null);

        txt1.setBounds(192, 127, 160, 30);
        txt1.setFont(fs);
        txt1.setForeground(Color.BLACK);

        pass.setBounds(192, 188, 160, 30);
        pass.setFont(fs);
        pass.setEchoChar('*');
        pass.setForeground(Color.BLACK);

        lbl.setBounds(30, 32, 350, 50);
        lbl.setText("Admin Login ");
        lbl.setFont(fh);
        lbl.setForeground(Color.BLACK);
        lbl.setHorizontalAlignment(SwingConstants.CENTER);

        lbl1.setBounds(43, 130, 110, 25);
        lbl1.setText("Admin Username:");
        lbl1.setForeground(Color.BLACK);
        lbl1.setFont(fs);
        lbl1.setHorizontalAlignment(SwingConstants.RIGHT);

        lbl2.setBounds(43, 192, 110, 25);
        lbl2.setText("Password:");
        lbl2.setForeground(Color.BLACK);
        lbl2.setFont(fs);
        lbl2.setHorizontalAlignment(SwingConstants.RIGHT);

        btn.setBounds(155, 270, 100, 28);
        btn.setText("Log In");
        btn.setBackground(clr2);
        btn.setForeground(Color.BLACK);
        btn.setCursor(cr);
        btn.addActionListener(this);

        c.add(lbl);
        c.add(lbl1);
        c.add(lbl2);
        c.add(btn);
        c.add(txt1);
        c.add(pass);
    }

    public void actionPerformed(ActionEvent evt)
    {
        try
        {
            String user, password;
            user = txt1.getText();
            password = pass.getText();
            File FI = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Admin.txt");
            Scanner A = new Scanner(FI);
            String US = A.next();
            String PASS = A.next();
            if(user.equals(US) && password.equals(PASS))
            {
                JOptionPane.showMessageDialog(null,"Welcome");
                new AdminInterface();
                f.setVisible(false);
            }
            else
            {
                JOptionPane.showMessageDialog(null,"Wrong Input\nTry again","Wrong
Input",JOptionPane.ERROR_MESSAGE);
            }
            A.close();
        }
        catch (Exception e)
        {
            System.out.println(e.getMessage());
        }
    }
}
```
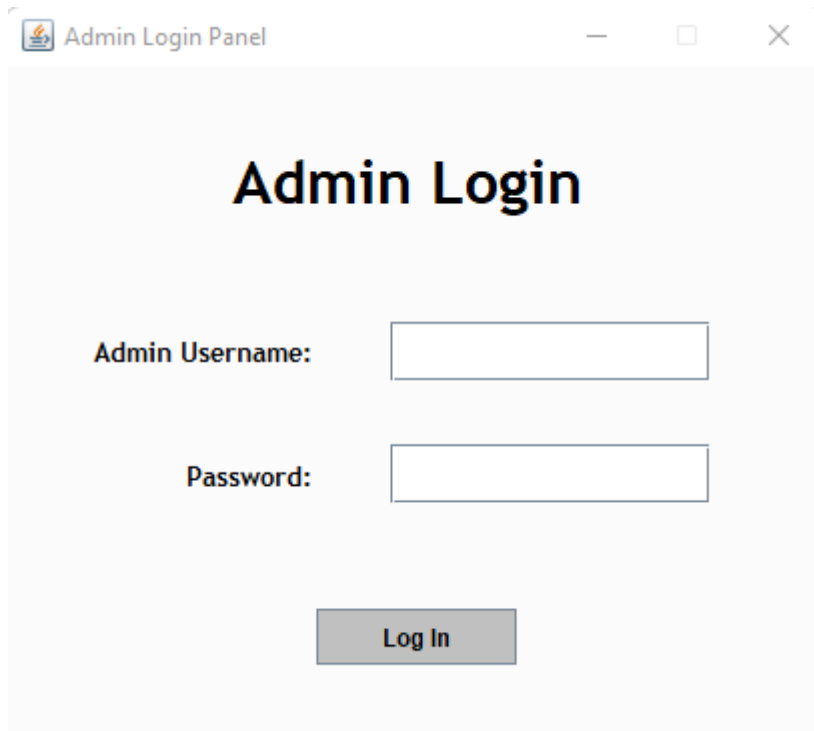
Result:

Admin Interface:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class AdminInterface {

    JFrame f = new JFrame("Admin Interface");
    Font fh=new Font("Trebuchet MS",Font.BOLD,20);
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    JLabel l =new JLabel();
    JButton a = new JButton("Total Booking");
    JButton b = new JButton("Bus List");
    JButton c = new JButton("Logout");
    JButton d = new JButton("Total Sell");
    public AdminInterface()
    {
        f.setVisible(true);
        JLabel bg;
        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\AII.jpeg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,1000,580);

        a.setBounds(170, 150, 170, 40);
        b.setBounds(680, 150, 140, 40);
        c.setBounds(730, 510, 100, 40);
        d.setBounds(410, 150, 200, 40);
        a.setFont(fh);
        b.setFont(fh);
        c.setFont(fh);
```

```java
        d.setFont(fh);
        a.setCursor(cr);
        b.setCursor(cr);
        c.setCursor(cr);
        d.setCursor(cr);

        f.add(l);
        f.add(a);
        f.add(b);
        f.add(c);
        f.add(d);
        f.add(bg);
        f.setLocationRelativeTo(null);

        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new AdminTotalBooking();
                f.setVisible(false);
            }
        });

        b.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new BusList();
                f.setVisible(false);
            }
        });

        c.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new Welcome();
                f.setVisible(false);
            }
        });

        d.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new TotalSell();
                f.setVisible(false);
            }
        });

        f.setSize(1000, 600);
        f.setLayout(null);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

Result:

Total Booking:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.*;
import java.util.*;

public class AdminTotalBooking
{
    JFrame f = new JFrame("Admin Total Booking");
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    JButton a = new JButton("RETURN");
    JTable JP=new JTable();
    JButton b = new JButton("SHOW");
    public AdminTotalBooking()
    {
        f.setVisible(true);
        JLabel bg;
        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\5.jpg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,1000,580);

        a.setBounds(780, 510, 100, 40);
        b.setBounds(650, 510, 100, 40);
        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new AdminInterface();
                f.setVisible(false);
            }
        });
        b.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                try
                {
                    File FI2 = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Booking.txt");
```

```java
                Scanner input = new Scanner(new FileReader(FI2));
                int row = 0;
                int col = 0;
                while (input.hasNextLine())
                {
                    String line = input.nextLine();
                    row++;
                    col = line.split(" ").length;
                }
                input.close();
                String[][] d = new String[row][col];
                input = new Scanner(new FileReader(FI2));

                for (int i = 0; i < row; i++)
                {
                    for (int j = 0; j < col; j++)
                    {
                        d[i][j] = input.next();
                    }
                    String column[] = {"USER ","FROM", "TO", "BUS NAME","SEAT","PRICE"};
                    JTable T = new JTable(d, column);
                    JScrollPane JP = new JScrollPane(T);
                    JP.setBounds(0, 0, 950, 500);
                    f.add(JP);
                }
                input.close();
            }
            catch (FileNotFoundException ex)
            {
                throw new RuntimeException(ex);
            }
        }
    });

    a.setCursor(cr);
    b.setCursor(cr);
    f.add(JP);
    f.add(a);
    f.add(b);
    f.add(bg);
    f.setSize(1000, 600);
    f.setLayout(null);
    f.setVisible(true);
    f.setLocationRelativeTo(null);
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

Result:

USER	FROM	TO	BUS NAME	SEAT	PRICE
alve	Barishal	Rongpur	Green	1	320
alve	Dhaka	Bikrampur	Green	1	1500
rupa	Dhaka	Rongpur	Hanif	1	820
alve	Dhaka	Rongpur	GREEN	2	1640
alve	Barishal	Rongpur	ENA	2	640
Rupa	Dhaka	Bikrampur	GREEN	8	12000
Moontaha	Dhaka	Sylhet	GREEN	10	7800
alve	Dhaka	Sylhet	GREEN	2	1560
antara	Dhaka	Rongpur	GREEN	2	1640

Total Sell:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.*;
import java.util.*;

public class TotalSell
{
    JFrame f = new JFrame("Total Sell");
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    JButton a = new JButton("RETURN");
    JLabel A1= new JLabel();
    JButton b = new JButton("SHOW");
    Font fh = new Font("Trebuchet MS", Font.BOLD, 30);
    public TotalSell()
    {
        JLabel bg;
        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\1.jpg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,1000,580);

        a.setBounds(780, 510, 100, 40);
        b.setBounds(650, 510, 100, 40);
        A1.setBounds(300, 250, 390, 40);
        A1.setForeground(Color.BLACK);
        A1.setFont(fh);
        A1.setOpaque(true);
        A1.setBackground(Color.white);

        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new AdminInterface();
                f.setVisible(false);
            }
        });

        b.addActionListener(new ActionListener()
```
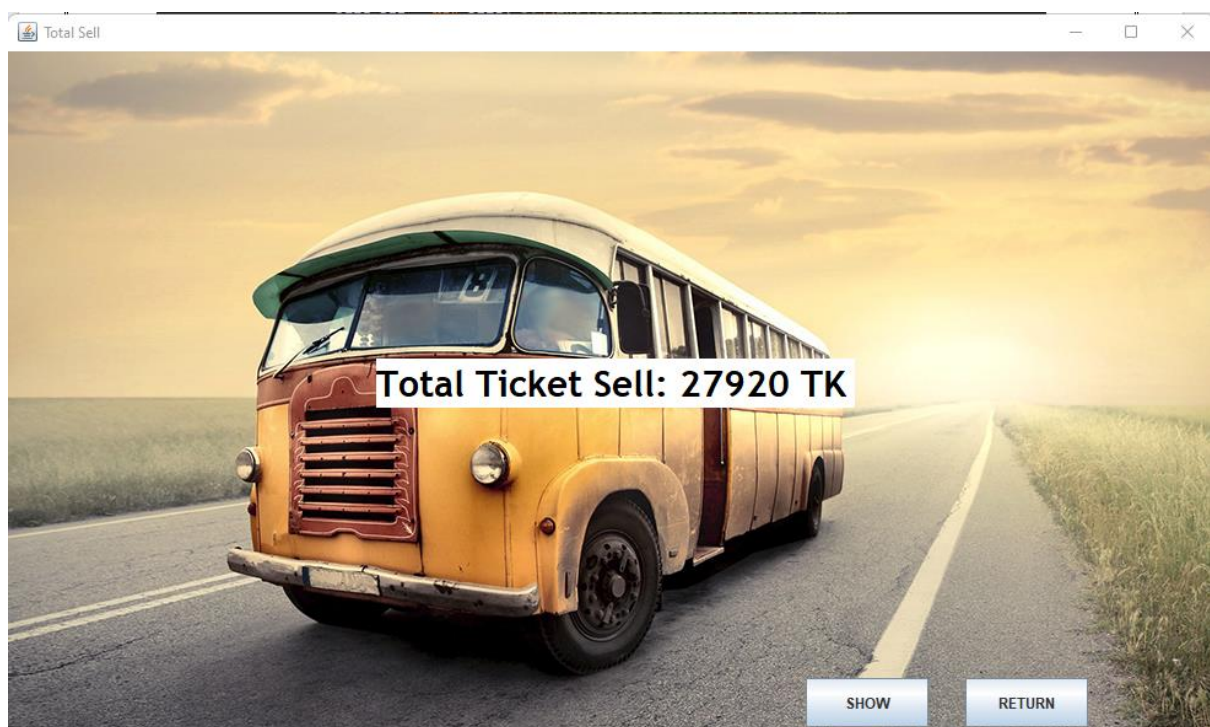
```
        {
            public void actionPerformed(ActionEvent e)
            {
                try
                {
                    File FI2 = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Booking.txt");
                    Scanner A = new Scanner(FI2);
                    int sum=0;
                    while (A.hasNext())
                    {
                        String USER = A.next();
                        String FROM = A.next();
                        String TO = A.next();
                        String BUS = A.next();
                        String SEAT = A.next();
                        String PRICE=A.next();
                        int P1= Integer.parseInt(PRICE);
                        sum+=P1;
                    }
                    A1.setText("Total Ticket Sell: "+sum+" TK");
                    A.close();
                }
                catch (FileNotFoundException ex)
                {
                    throw new RuntimeException(ex);
                }
            }
        });
        a.setCursor(cr);
        b.setCursor(cr);
        f.add(a);
        f.add(b);
        f.add(A1);
        f.add(bg);
        f.setSize(1000, 600);
        f.setLayout(null);
        f.setVisible(true);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

Result:

Bus List:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.*;
import java.util.Scanner;

public class BusList
{
    JFrame f = new JFrame("Bus List");
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    JButton a = new JButton("OK");
    JButton b = new JButton("SHOW");
    JTable A= new JTable();

    public BusList()
    {
        JLabel bg;
        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\3.jpg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,1000,580);
        b.setBounds(650, 510, 100, 40);
        a.setBounds(780, 510, 100, 40);
        a.setCursor(cr);
        b.setCursor(cr);

        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new AdminInterface();
                f.setVisible(false);
            }
        });

        b.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                try
                {
                    File FI2 = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\BusList.txt");
                    Scanner input = new Scanner(new FileReader(FI2));
                    int row = 0;
                    int col = 0;
                    while (input.hasNextLine())
                    {
                        String line = input.nextLine();
                        row++;
                        col = line.split(" ").length;
                    }
                    input.close();
                    String[][] d = new String[row][col];
                    input = new Scanner(new FileReader(FI2));

                    for (int i = 0; i < row; i++)
                    {
                        for (int j = 0; j < col; j++)
                        {
                            d[i][j] = input.next();
                        }
                        String column[] = {"USER ","FROM", "TO", "BUS"};
                        JTable T = new JTable(d, column);
                        JScrollPane JP = new JScrollPane(T);
                        JP.setBounds(0, 0, 950, 500);
                        f.add(JP);
                    }
                    input.close();
                }
                catch (FileNotFoundException ex)
                {
                    throw new RuntimeException(ex);
                }
            }
        });
```
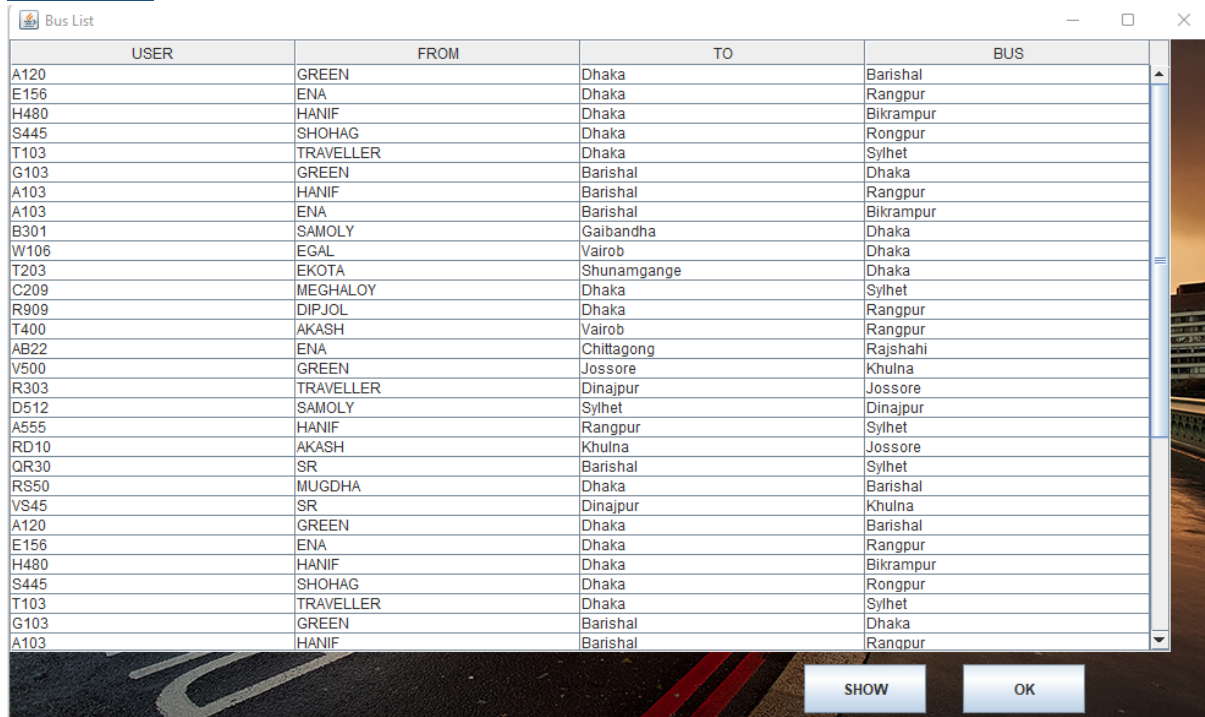
```
        f.add(new JScrollPane(A));
        f.add(a);
        f.add(b);
        f.add(bg);
        f.setSize(1000, 600);
        f.setLayout(null);
        f.setVisible(true);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }

}
```

Result:

USER	FROM	TO	BUS
A120	GREEN	Dhaka	Barishal
E156	ENA	Dhaka	Rangpur
H480	HANIF	Dhaka	Bikrampur
S445	SHOHAG	Dhaka	Rongpur
T103	TRAVELLER	Dhaka	Sylhet
G103	GREEN	Barishal	Dhaka
A103	HANIF	Barishal	Rangpur
A103	ENA	Barishal	Bikrampur
B301	SAMOLY	Gaibandha	Dhaka
W106	EGAL	Vairob	Dhaka
T203	EKOTA	Shunamgange	Dhaka
C209	MEGHALOY	Dhaka	Sylhet
R909	DIPJOL	Dhaka	Rangpur
T400	AKASH	Vairob	Rangpur
AB22	ENA	Chittagong	Rajshahi
V500	GREEN	Jossore	Khulna
R303	TRAVELLER	Dinajpur	Jossore
D512	SAMOLY	Sylhet	Dinajpur
A555	HANIF	Rangpur	Sylhet
RD10	AKASH	Khulna	Jossore
QR30	SR	Barishal	Sylhet
RS50	MUGDHA	Dhaka	Barishal
VS45	SR	Dinajpur	Khulna
A120	GREEN	Dhaka	Barishal
E156	ENA	Dhaka	Rangpur
H480	HANIF	Dhaka	Bikrampur
S445	SHOHAG	Dhaka	Rongpur
T103	TRAVELLER	Dhaka	Sylhet
G103	GREEN	Barishal	Dhaka
A103	HANIF	Barishal	Rangpur

SHOW   OK

User Sign Up:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileWriter;

public class SignUp implements ActionListener
{
    JFrame f = new JFrame("Sign Up");
    Color clr1 = new Color(252, 251, 251);
    Color clr2 = new Color(192, 192, 192);
    JTextField txt1 = new JTextField();
    JPasswordField pass = new JPasswordField();
    JLabel lbl = new JLabel();
    JLabel lbl1 = new JLabel();
    JLabel lbl2 = new JLabel();
    JButton btn = new JButton();
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    Font fh = new Font("Trebuchet MS", Font.BOLD, 30);
    Font fs = new Font("Trebuchet MS", Font.BOLD, 13);
    Container c = f.getContentPane();

    public SignUp ()
```

```java
    {
        f.setVisible(true);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setBounds(430, 120, 425, 375);
        f.setTitle("Signup Panel");
        f.setResizable(false);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        c.setBackground(clr1);
        c.setLayout(null);

        txt1.setBounds(192, 127, 160, 30);
        txt1.setFont(fs);
        txt1.setForeground(Color.BLACK);

        pass.setBounds(192, 188, 160, 30);
        pass.setFont(fs);
        pass.setEchoChar('*');
        pass.setForeground(Color.BLACK);

        lbl.setBounds(30, 32, 350, 50);
        lbl.setText("Create New Account");
        lbl.setFont(fh);
        lbl.setForeground(Color.BLACK);
        lbl.setHorizontalAlignment(SwingConstants.CENTER);

        lbl1.setBounds(43, 130, 110, 25);
        lbl1.setText("Username:");
        lbl1.setForeground(Color.BLACK);
        lbl1.setFont(fs);
        lbl1.setHorizontalAlignment(SwingConstants.RIGHT);

        lbl2.setBounds(43, 192, 110, 25);
        lbl2.setText("Password:");
        lbl2.setForeground(Color.BLACK);
        lbl2.setFont(fs);
        lbl2.setHorizontalAlignment(SwingConstants.RIGHT);

        btn.setBounds(155, 270, 140, 28);
        btn.setText("Create Account");
        btn.setBackground(clr2);
        btn.setForeground(Color.BLACK);
        btn.setCursor(cr);
        btn.addActionListener(this);
        btn.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new UserLogin ();
                f.setVisible(false);
            }
        });

        c.add(lbl);
        c.add(lbl1);
        c.add(lbl2);
        c.add(btn);
        c.add(txt1);
        c.add(pass);
    }

    public void actionPerformed(ActionEvent evt)
    {
        try
        {
            String user, password;
            user = txt1.getText();
            password = pass.getText();
            File FI = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\User.txt");
            BufferedWriter BF= new BufferedWriter(new FileWriter(FI,true));
            BF.write(user+" "+password+"\n");
            JOptionPane.showMessageDialog(null,"    'Signup Sucessfull'\nWelcome to Ticket Panda");
            BF.close();
        }
        catch (Exception e)
        {
            System.out.println(e.getMessage());
        }
    }
}
```
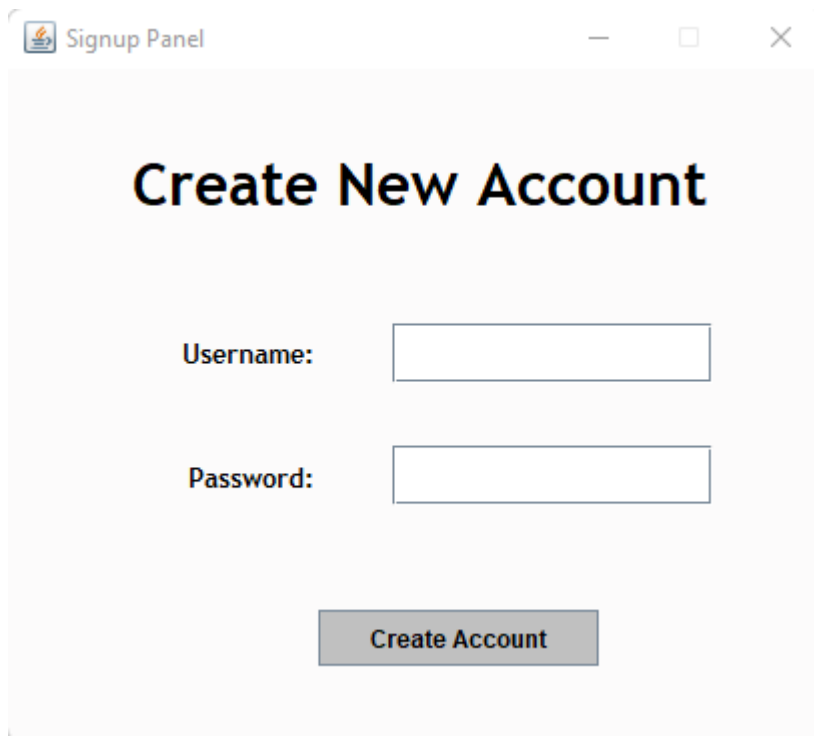
Result:

User Login:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.util.Scanner;

public class UserLogin implements ActionListener
{
    JFrame f = new JFrame("User Login Panel");
    Color clr1 = new Color(252, 251, 251);
    Color clr2 = new Color(192, 192, 192);
    JTextField txt1 = new JTextField();
    JPasswordField pass = new JPasswordField();
    JLabel lbl = new JLabel();
    JLabel lbl1 = new JLabel();
    JLabel lbl2 = new JLabel();
    JButton btn = new JButton();
    JButton bt = new JButton();
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    Font fh = new Font("Trebuchet MS", Font.BOLD, 30);
    Font fs = new Font("Trebuchet MS", Font.BOLD, 13);
    Container c = f.getContentPane();

    public UserLogin() {
        f.setVisible(true);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setBounds(430, 120, 425, 375);
        f.setTitle(" User Login Panel");
        f.setResizable(false);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        c.setBackground(clr1);
        c.setLayout(null);

        txt1.setBounds(192, 127, 160, 30);
```

```java
        txt1.setFont(fs);
        txt1.setForeground(Color.BLACK);

        pass.setBounds(192, 188, 160, 30);
        pass.setFont(fs);
        pass.setEchoChar('*');
        pass.setForeground(Color.BLACK);

        lbl.setBounds(30, 32, 350, 50);
        lbl.setText("User Login");
        lbl.setFont(fh);
        lbl.setForeground(Color.BLACK);
        lbl.setHorizontalAlignment(SwingConstants.CENTER);

        lbl1.setBounds(43, 130, 110, 25);
        lbl1.setText("Username:");
        lbl1.setForeground(Color.BLACK);
        lbl1.setFont(fs);
        lbl1.setHorizontalAlignment(SwingConstants.RIGHT);

        lbl2.setBounds(43, 192, 110, 25);
        lbl2.setText("Password:");
        lbl2.setForeground(Color.BLACK);
        lbl2.setFont(fs);
        lbl2.setHorizontalAlignment(SwingConstants.RIGHT);

        btn.setBounds(230, 270, 100, 28);
        btn.setText("Log In");
        btn.setBackground(clr2);
        btn.setForeground(Color.BLACK);
        btn.setCursor(cr);
        btn.addActionListener(this);

        bt.setBounds(80, 270, 100, 28);
        bt.setText("Signup");
        bt.setBackground(clr2);
        bt.setForeground(Color.BLACK);
        bt.setCursor(cr);
        bt.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new SignUp ();
                f.setVisible(false);
            }
        });

        c.add(lbl);
        c.add(lbl1);
        c.add(lbl2);
        c.add(btn);
        c.add(bt);
        c.add(txt1);
        c.add(pass);
    }

    public void actionPerformed(ActionEvent evt)
    {
        try {
            String user, password;
            user = txt1.getText();
            password = pass.getText();
            File FI = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\User.txt");
            Scanner A = new Scanner(FI);
            while (A.hasNextLine())
            {
                String US = A.next();
                String PASS = A.next();
                if (user.equals(US) && password.equals(PASS))
                {

                    JOptionPane.showMessageDialog(null, "Welcome");
                    new UserInterface();
                    f.setVisible(false);
                    break;
                }

            }
            A.close();
        }
        catch (Exception e)
        {
```
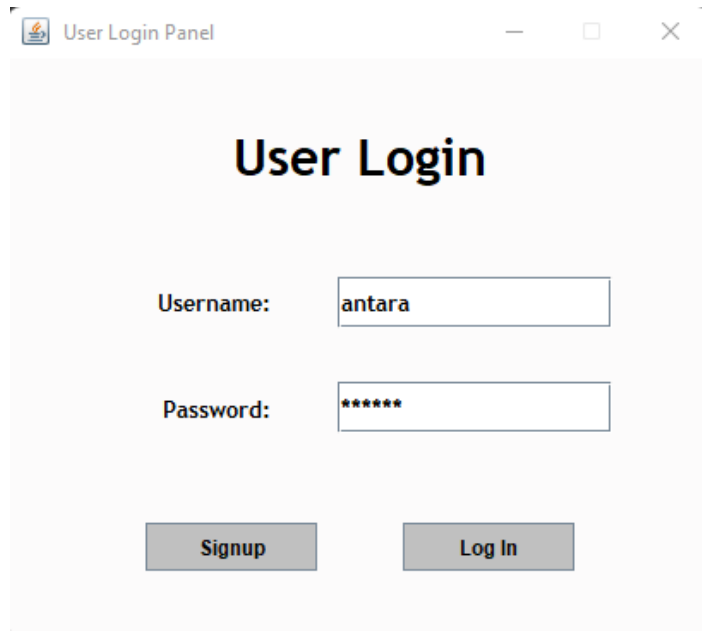
```
            JOptionPane.showMessageDialog(null, "Wrong Input\nTry again", "Wrong Input",
JOptionPane.ERROR_MESSAGE);
            System.out.println(e.getMessage());
        }
    }
}
```

Result:

User Interface:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

class UserInterface
{
    JFrame f = new JFrame("User Interface");
    Font fh=new Font("Trebuchet MS",Font.BOLD,20);
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    JLabel bg =new JLabel();
    JButton a = new JButton("Booking Ticket");
    JButton b = new JButton("Cancel Ticket");
    JButton c = new JButton("Ticket Price");
    JButton d = new JButton("Logout");
    public UserInterface()
    {

        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\2.jpg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,1000,600);

        a.setBounds(120, 150, 180, 40);
        b.setBounds(700, 150, 180, 40);
        c.setBounds(400, 150, 180, 40);
        d.setBounds(780, 515, 100, 40);
        a.setFont(fh);
        b.setFont(fh);
        c.setFont(fh);
        d.setFont(fh);

        a.setCursor(cr);
```

```java
        b.setCursor(cr);
        c.setCursor(cr);
        d.setCursor(cr);
        f.add(a);
        f.add(b);
        f.add(c);
        f.add(d);
        f.add(bg);
        f.setLocationRelativeTo(null);

        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new BookingTicket();
                f.setVisible(false);
            }
        });

        b.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new CancelTicket();
                f.setVisible(false);
            }
        });

        c.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new UserTotalBooking();
                f.setVisible(false);
            }
        });

        d.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new Welcome();
                f.setVisible(false);
            }
        });

        f.setSize(1000, 600);
        f.setLayout(null);
        f.setVisible(true);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```
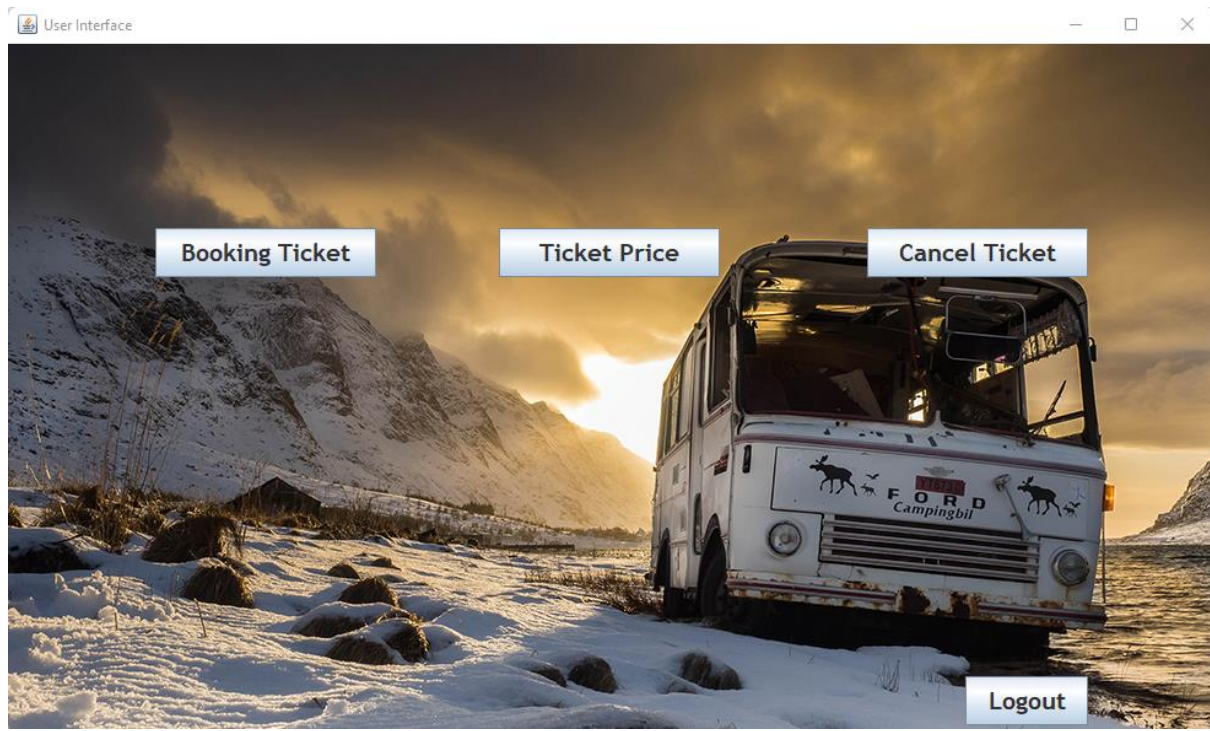
Result:

Booking Tickets:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.*;
import java.util.Scanner;

public class BookingTicket
{
    JFrame f = new JFrame("Booking Ticket");
    JTextField txt1 = new JTextField();
    JLabel lbl1 = new JLabel();
    JLabel lbl2 = new JLabel();
    JLabel lbl3 = new JLabel();
    JLabel lbl4 = new JLabel();
    JLabel lbl5 = new JLabel();
    final JLabel label = new JLabel();

    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    Font fs = new Font("Trebuchet MS", Font.BOLD, 20);
    Font fa = new Font("Trebuchet MS", Font.BOLD, 17);
    JButton a = new JButton("RETURN");
    JButton b = new JButton("CONFIRM");

    JButton c = new JButton("PRINT");
    JTextArea TP= new JTextArea();
    JComboBox JC=new JComboBox();
    JComboBox JC1=new JComboBox();
    JComboBox JB=new JComboBox();
    JComboBox JS=new JComboBox();
    public BookingTicket()
    {
        JLabel bg;
        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\AII.jpeg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,1000,580);

        a.setBounds(780, 510, 100, 40);
        b.setBounds(650, 510, 100, 40);
        c.setBounds(520, 510, 100, 40);
```

```java
        a.setCursor(cr);
        b.setCursor(cr);
        c.setCursor(cr);

        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new UserInterface();
                f.setVisible(false);
            }
        });


        b.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                int result = JOptionPane.showConfirmDialog(f,"Sure? You want to Conform?",
"Conformation",
                        JOptionPane.YES_NO_OPTION,
                        JOptionPane.QUESTION_MESSAGE);
                if(result == JOptionPane.YES_OPTION)
                {
                    label.setText("You selected: Yes");
                    try
                    {
                        String user, from, to, bus, seat;
                        user = txt1.getText();
                        from=JC.getSelectedItem().toString();
                        to=JC1.getSelectedItem().toString();
                        bus=JB.getSelectedItem().toString();
                        seat = JS.getSelectedItem().toString();

                        String From, To;
                        From = JC.getSelectedItem().toString();
                        To = JC1.getSelectedItem().toString();;
                        File FI2 = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Price.txt");
                        Scanner A = new Scanner(FI2);

                        if(user.equals(""))
                        {
                            JOptionPane.showMessageDialog(null,"Plese Enter Your Name","Wrong
Input",JOptionPane.ERROR_MESSAGE);
                            new BookingTicket();
                        }
                        if(from.equals(to))
                        {
                            JOptionPane.showMessageDialog(null,"Destination Selection wrong","Wrong
Input",JOptionPane.ERROR_MESSAGE);
                            new BookingTicket();
                        }
                        while (A.hasNextLine())
                        {
                            String FROM = A.next();
                            String TO = A.next();
                            String PRICE=A.next();
                            if (From.equals(FROM) && To.equals(TO))
                            {
                                String p = PRICE;
                                int P1= Integer.parseInt(p);
                                int P2= Integer.parseInt(seat);
                                int res=P1*P2;
                                String resul= String.valueOf(res);
                                File FI = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Booking.txt");
                                BufferedWriter BF = new BufferedWriter(new FileWriter(FI, true));
                                BF.write(user + " "+from+ " "+to+" "+ bus+" "+ seat + "
"+resul+"\n");
                                BF.close();
                                new BookingTicket();
                                f.setVisible(true);
                                break;
                            }
                        }
                    }
                    catch (Exception ev)
                    {
                        System.out.println(ev.getMessage());
                    }
                }
```

```java
                else if (result == JOptionPane.NO_OPTION)
                {
                    label.setText("You selected: No");
                    new BookingTicket();
                    f.setVisible(false);
                }
                else
                {
                    new BookingTicket();
                    label.setText("None selected");
                }
                f.setVisible(false);
            }
        });

        c.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                try
                {
                    String user, from, to, bus, seat;
                    user = txt1.getText();
                    from=JC.getSelectedItem().toString();
                    to=JC1.getSelectedItem().toString();
                    bus=JB.getSelectedItem().toString();
                    seat = JS.getSelectedItem().toString();
                    String From, To;
                    From = JC.getSelectedItem().toString();
                    To = JC1.getSelectedItem().toString();;
                    File FI2 = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Price.txt");
                    Scanner A = new Scanner(FI2);

                    while (A.hasNextLine())
                    {
                        String FROM = A.next();
                        String TO = A.next();
                        String PRICE=A.next();
                        if (From.equals(FROM) && To.equals(TO))
                        {
                            String p = PRICE;
                            int P1= Integer.parseInt(p);
                            int P2= Integer.parseInt(seat);
                            int res=P1*P2;
                            String resul= String.valueOf(res);
                            String column[] = {"USER ","FROM", "TO", "BUS NAME","SEAT","Per Ticket
Price","PRICE"};
                            String d1[][]={{user,from,to,bus,seat,p,resul}};
                            JTable T1 = new JTable(d1, column);
                            JScrollPane JP1 = new JScrollPane(T1);
                            JP1.setBounds(0, 0, 950, 500);
                            f.add(JP1);
                            break;
                        }
                    }
                    A.close();
                }
                catch (Exception ev)
                {
                    System.out.println(ev.getMessage());
                }
            }
        });

        txt1.setBounds(192, 90, 160, 30);
        txt1.setFont(fs);
        txt1.setForeground(Color.BLACK);

        lbl1.setBounds(100, 90, 110, 25);
        lbl1.setText("NAME:");
        lbl1.setForeground(Color.BLACK);
        lbl1.setFont(fs);

        lbl2.setBounds(100, 127, 110, 25);
        lbl2.setText("FROM:");
        lbl2.setForeground(Color.BLACK);
        lbl2.setBackground(Color.WHITE);
        lbl2.setFont(fs);

        lbl3.setBounds(100, 167, 110, 25);
        lbl3.setText("TO:");
```

```java
            lbl3.setForeground(Color.BLACK);
            lbl3.setBackground(Color.WHITE);
            lbl3.setFont(fs);

            lbl4.setBounds(100, 204, 110, 25);
            lbl4.setText("BUS:");
            lbl4.setForeground(Color.BLACK);
            lbl4.setBackground(Color.WHITE);
            lbl4.setFont(fs);

            lbl5.setBounds(75, 241, 110, 25);
            lbl5.setText("TOTAL SEAT:");
            lbl5.setForeground(Color.BLACK);
            lbl5.setBackground(Color.WHITE);
            lbl5.setFont(fa);

            String filePath = "F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\Text\\From.txt";
            File file = new File(filePath);
            try
            {
                BufferedReader br = new BufferedReader(new FileReader(file));
                Object[] lines = br.lines().toArray();
                for(int i = 0; i < lines.length; i++)
                {
                    String line = lines[i].toString();
                    JC.addItem(line);
                }

            }
            catch (FileNotFoundException ex)
            {
                System.out.println(ex.getMessage());
            }


            try
            {
                BufferedReader br = new BufferedReader(new FileReader(file));
                Object[] lines = br.lines().toArray();

                for(int i = 0; i < lines.length; i++){
                    String line = lines[i].toString();
                    JC1.addItem(line);
                }

            }
            catch (FileNotFoundException ex)
            {
                System.out.println(ex.getMessage());
            }

            String filePath3 = "F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\Text\\Bus.txt";
            File file3 = new File(filePath3);
            try
            {
                BufferedReader br = new BufferedReader(new FileReader(file3));
                Object[] lines = br.lines().toArray();
                for(int i = 0; i < lines.length; i++)
                {
                    String line = lines[i].toString();
                    JB.addItem(line);
                }

            }
            catch (FileNotFoundException ex)
            {
                System.out.println(ex.getMessage());
            }

            String filePath2 = "F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\Text\\Seat.txt";
            File file2 = new File(filePath2);
            try
            {
                BufferedReader br = new BufferedReader(new FileReader(file2));
                Object[] lines = br.lines().toArray();

                for(int i = 0; i < lines.length; i++){
                    String line = lines[i].toString();
                    JS.addItem(line);
                }

            }
```

```
        catch (FileNotFoundException ex)
        {
            System.out.println(ex.getMessage());
        }

        JC.setBounds(192, 127, 160, 30);
        JC1.setBounds(192, 167, 160, 30);
        JB.setBounds(192, 204, 160, 30);
        JS.setBounds(192, 241, 160, 30);
        f.add(a);
        f.add(b);
        f.add(c);
        f.add(JC);
        f.add(JC1);
        f.add(JB);
        f.add(JS);
        f.add(TP);
        f.add(txt1);
        f.add(lbl1);
        f.add(lbl2);
        f.add(lbl3);
        f.add(lbl4);
        f.add(lbl5);
        f.add(bg);
        f.setSize(1000, 600);
        f.setLayout(null);
        f.setVisible(true);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```
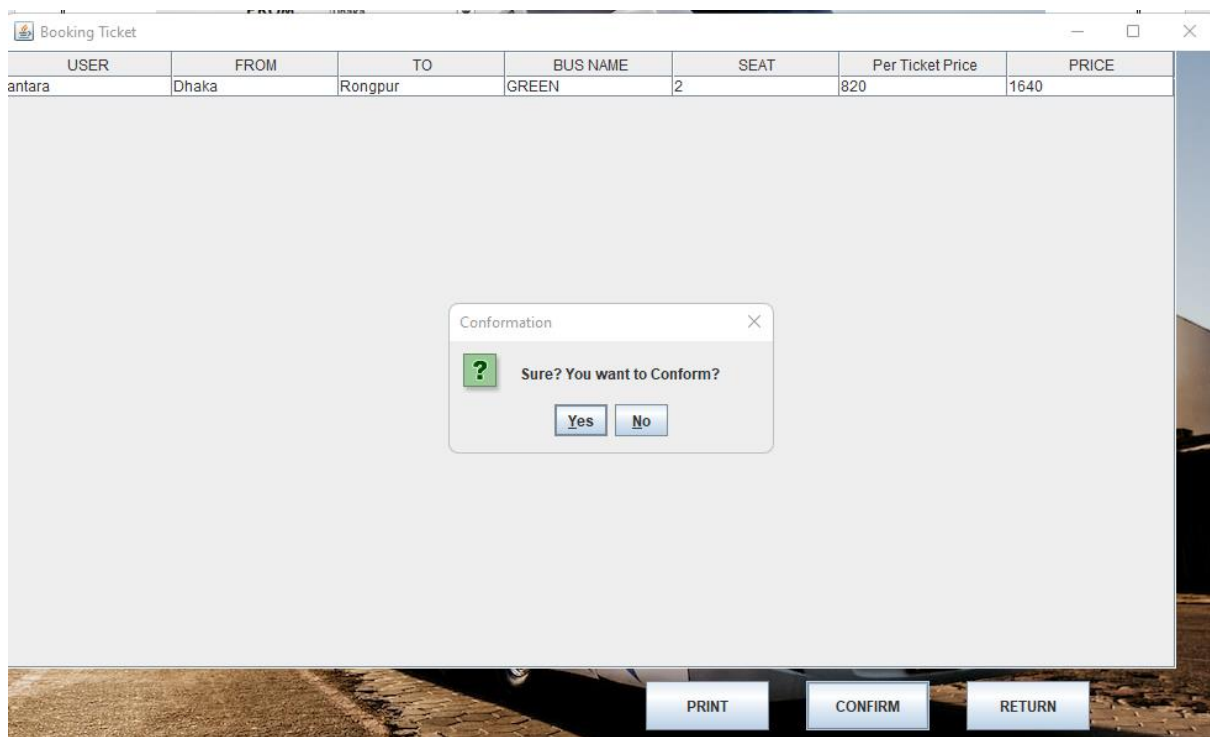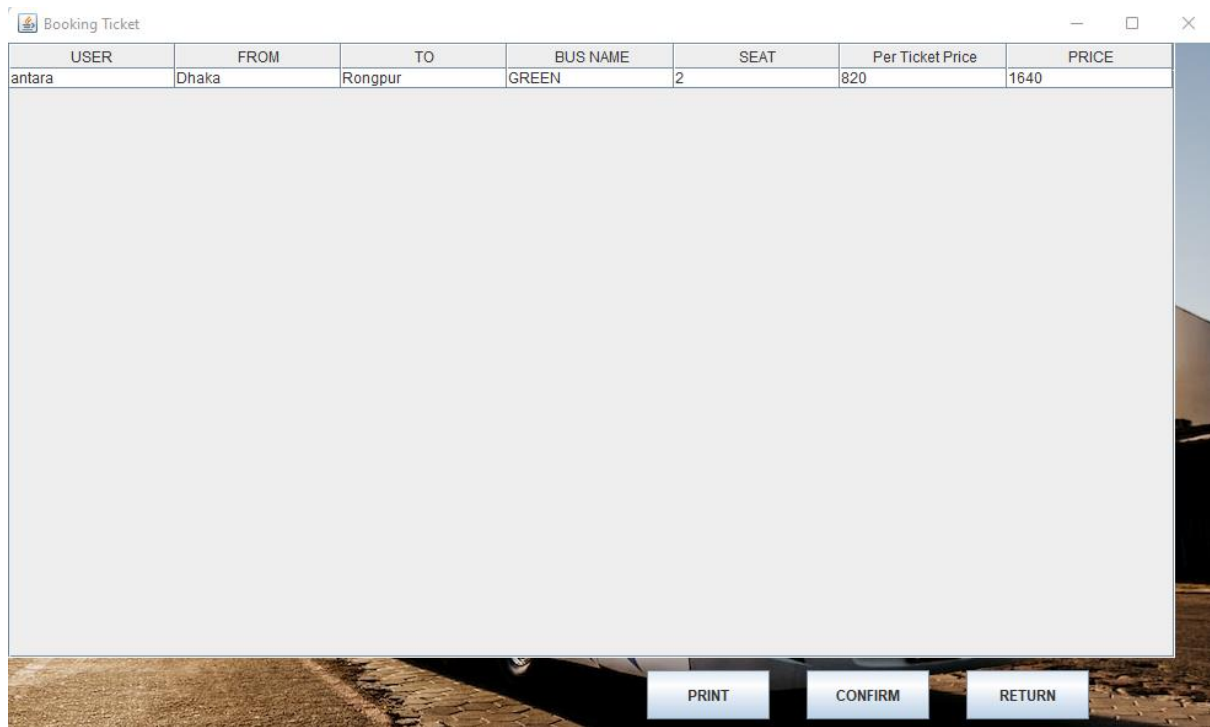
Result:

Ticket Price:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.*;
import java.util.Scanner;

public class UserTotalBooking
{
    JFrame f = new JFrame("TICKET PRICE");
    Font fs = new Font("Trebuchet MS", Font.BOLD, 20);
```

```java
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    JButton a = new JButton("DONE");
    JButton b = new JButton("SHOW");
    public UserTotalBooking()
    {
        JLabel bg;
        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\1.jpg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,1000,580);

        a.setBounds(780, 510, 100, 40);
        b.setBounds(650, 510, 100, 40);
        a.setCursor(cr);
        b.setCursor(cr);

        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new UserInterface();
                f.setVisible(false);
            }
        });


        b.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                try
                {
                    File FI2 = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Price.txt");
                    Scanner input = new Scanner(new FileReader(FI2));
                    int row = 0;
                    int col = 0;
                    while (input.hasNextLine())
                    {
                        String line = input.nextLine();
                        row++;
                        col = line.split(" ").length;
                    }
                    input.close();
                    String[][] d = new String[row][col];
                    input = new Scanner(new FileReader(FI2));

                    for (int i = 0; i < row; i++)
                    {
                        for (int j = 0; j < col; j++)
                        {
                            d[i][j] = input.next();
                        }
                        String column[] = {"FROM", "TO","PRICE"};
                        JTable T = new JTable(d, column);
                        JScrollPane JP = new JScrollPane(T);
                        JP.setBounds(0, 0, 950, 500);
                        f.add(JP);
                    }
                    input.close();
                }
                catch (FileNotFoundException ex)
                {
                    throw new RuntimeException(ex);
                }
            }
        });
        f.add(a);
        f.add(b);
        f.add(bg);
        f.setSize(1000, 600);
        f.setLayout(null);
        f.setVisible(true);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

Result:

Cancel Tickets:

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.*;
import java.util.Scanner;

public class CancelTicket
{

    JFrame f = new JFrame("Cancel Ticket");
    JTextField txt1 = new JTextField();
    Font fs=new Font("Trebuchet MS",Font.BOLD,20);
    Cursor cr = new Cursor(Cursor.HAND_CURSOR);
    JButton a = new JButton("RETURN");
    JButton c = new JButton("DELETE");
    JLabel lbl1 = new JLabel();
    JLabel lbl2 = new JLabel();
    JLabel lbl3 = new JLabel();
    final JLabel label = new JLabel();
    JComboBox JC=new JComboBox();
    JComboBox JC1=new JComboBox();
    public CancelTicket()
    {
        JLabel bg;
        ImageIcon img= new ImageIcon("F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\File
Storage\\3.jpg");
        bg=new JLabel("",img,JLabel.CENTER);
        bg.setBounds(0,0,1000,580);


        a.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                new UserInterface();
                f.setVisible(false);
            }
        });
```

```java
        c.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {

                int result = JOptionPane.showConfirmDialog(f,"Sure? You want to Conform?",
"Conformation",
                        JOptionPane.YES_NO_OPTION,
                        JOptionPane.QUESTION_MESSAGE);
                if(result == JOptionPane.YES_OPTION)
                {
                    label.setText("You selected: Yes");
                    try {
                        String user, From, To;
                        user = txt1.getText();
                        From = JC.getSelectedItem().toString();
                        To = JC1.getSelectedItem().toString();

                        File FI2 = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Booking.txt");
                        File F = new File("F:\\EWU\\Course matarial\\CSE110 (MDH
sir)\\Project\\Text\\Temp.txt");
                        Scanner A = new Scanner(FI2);
                        while (A.hasNext())
                        {
                            String USER = A.next();
                            String FROM = A.next();
                            String TO = A.next();
                            String BUS = A.next();
                            String SEAT = A.next();
                            String PRICE = A.next();

                            if (USER.equals(user) && From.equals(FROM) && To.equals(TO)) {
                                continue;
                            } else {
                                BufferedWriter BW = new BufferedWriter(new FileWriter(F, true));
                                BW.write(USER + " " + FROM + " " + TO + " " + BUS + " " + SEAT + " "
+ PRICE + "\n");

                                BW.close();
                            }
                        }
                        A.close();
                        FI2.delete();
                        F.renameTo(FI2);
                    } catch (Exception e1) {
                        System.out.println(e1.getMessage());
                    }
                }
                else if (result == JOptionPane.NO_OPTION)
                {
                    label.setText("You selected: No");
                    new CancelTicket();
                    f.setVisible(false);
                }
                else
                {
                    new CancelTicket();
                    label.setText("None selected");
                }
            }
        });

        String filePath = "F:\\EWU\\Course matarial\\CSE110 (MDH sir)\\Project\\Text\\From.txt";
        File file = new File(filePath);
        try {
            BufferedReader br = new BufferedReader(new FileReader(file));
            Object[] lines = br.lines().toArray();

            for(int i = 0; i < lines.length; i++){
                String line = lines[i].toString();
                JC.addItem(line);
            }

        } catch (FileNotFoundException ex)
        {
            System.out.println(ex.getMessage());
        }


        try {
            BufferedReader br = new BufferedReader(new FileReader(file));
```

```java
            Object[] lines = br.lines().toArray();

            for(int i = 0; i < lines.length; i++){
                String line = lines[i].toString();
                JC1.addItem(line);
            }

        } catch (FileNotFoundException ex)
        {
            System.out.println(ex.getMessage());
        }


        a.setBounds(780, 510, 100, 40);
        c.setBounds(650, 510, 100, 40);
        JC.setBounds(192, 475, 160, 30);
        JC1.setBounds(192, 511, 160, 30);
        txt1.setBounds(192, 440, 160, 30);
        txt1.setFont(fs);
        txt1.setForeground(Color.BLACK);

        lbl1.setBounds(100, 445, 110, 25);
        lbl1.setText("NAME:");
        lbl1.setForeground(Color.WHITE);
        lbl1.setFont(fs);

        lbl2.setBounds(100, 480, 110, 25);
        lbl2.setText("FROM:");
        lbl2.setForeground(Color.WHITE);
        lbl2.setBackground(Color.WHITE);
        lbl2.setFont(fs);

        lbl3.setBounds(100, 515, 110, 25);
        lbl3.setText("TO:");
        lbl3.setForeground(Color.WHITE);
        lbl3.setBackground(Color.WHITE);
        lbl3.setFont(fs);

        f.add(a);
        f.add(c);
        f.add(JC);
        f.add(JC1);
        f.add(txt1);
        f.add(lbl1);
        f.add(lbl2);
        f.add(lbl3);
        f.add(bg);
        f.setSize(1000, 600);
        f.setLayout(null);
        f.setVisible(true);
        f.setLocationRelativeTo(null);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

Result: