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CS23333 OOPS Using Java

Laboratory Record Note Book

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RAJALAKSHMI ENGINEERING COLLEGE

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Signature of Faculty in-charge

Submitted for the Practical Examination held on……

Internal Examiner **External Examiner**

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TOUR PACKAGE MANAGEMENT SYSTEM

A MINI-PROJECT REPORT

Submitted by

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in partial fulfillment of the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

RAJALAKSHMI ENGINEERING COLLEGE, CHENNAI

An Autonomous Institute

CHENNAI

NOVEMBER 2025

BONAFIDE CERTIFICATE

Certified that this project **"TOUR PACKAGE MANAGEMENT SYSTEM"** is the bonafide work of**"DHANUSHIYA G,DHARSHINI G, DHARSHINI S"** who carried out the project work under my supervision.

SIGNATURE

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This mini project report is submitted for the viva voce examination to be held on

_____

INTERNAL EXAMINER **EXTERNAL EXAMINER**

ABSTRACT

In our state, tourism plays a major role in promoting cultural, historical, and economic development. Even though there are several multinational travel companies that operate on a larger scale, many local travel agencies still lack an efficient and user-friendly application system. To overcome this drawback, our team has developed a Tour Package Management System to help local travel agencies maintain, organize, and manage their tour-related data efficiently.

The main objective of this project is to manage and allocate tour packages based on customer preferences and requirements. This system helps to maintain updated information about available packages, destinations, pricing, and customer bookings in an organized manner. By implementing this system, local travel agencies can improve their service quality, attract more customers, and compete effectively with larger travel companies by offering reliable and efficient service.

ACKNOWLEDGEMENT

We express our sincere thanks to our beloved and honorable chairman **MR. S. MEGANATHAN** and the chairperson **DR. M.THANGAM MEGANATHAN** for their timely support and encouragement.

We are greatly indebted to our respected and honorable principal **Dr. S.N. MURUGESAN** for his able support and guidance.

No words of gratitude will suffice for the unquestioning support extended to us by our Head Of The Department **Dr. E.M. MALATHY** and our Deputy Head Of The Department **Dr. J. MANORANJINI** for being ever supporting force during our project work

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Our sincere thanks to our family members, friends and other staff members of computer science engineering.

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

The project helps tourists and customers to know all the necessary information and list of available tour packages in various destinations. It allows users to explore, compare, and book suitable packages based on their preferences. The system provides clear details regarding destinations, pricing, duration, and available services for the convenience of users and travel agencies.

1.2 SCOPE OF THE WORK

The Tour Package Management System aims to assist travelers in easily accessing different travel and holiday packages offered by various agencies. It simplifies the process of browsing destinations, booking tours, and managing customer details. This system ensures better accessibility, transparency, and efficient handling of tour-related information for both the travel agency and customers.

1.3 PROBLEM STATEMENT

In the present travel industry, many people face difficulty in finding suitable and reliable tour packages that match their preferences and budgets. Manual booking processes often lead to errors, delays, and miscommunication. Hence, there is a need for an automated system that provides up-to-date package information, availability status, and booking facilities to improve customer satisfaction and operational efficiency.

1.4 AIM AND OBJECTIVES OF THE PROJECT

The main aim of this project is to develop an automated Tour Package Management System that efficiently handles the process of viewing, booking, and managing tour packages.To provide customers with easy access to a wide range of tour packages.To maintain and update package details such as cost, duration, and destination information.

CHAPTER 2

SYSTEM SPECIFICATIONS

2.1 HARDWARE SPECIFICATIONS

Processor	:	Intel i3
Memory Size	:	8GB (Minimum)
HDD	:	1 TB (Minimum)

2.2 SOFTWARE SPECIFICATIONS

Operating System	:	WINDOWS 11
Front – End	:	Java
Back - End	:	MySql
Language	:	java,SQL

CHAPTER 3

MODULE DESCRIPTION

This application consists of a module. When the program runs, it will ask for a confirmation to the login window. The person who interacts can login as an Administrator or as a User. The description of the modules are as follows:

User login

When the person tries to login as a user then he/she will be prompted to enter
the number of symptoms and the final result will be printed in the form of table.

CHAPTER 4

Sample code for Booking Tour

```
package com.tour;

import com.mycompany.tourpackage.DBConnection;

import javax.swing.*;

import java.awt.*;

import java.awt.event.ActionEvent;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import java.text.SimpleDateFormat;



/**

 *

 * @author GNANASEKAR K

 */

public class BookTour extends javax.swing.JPanel {



    /**
```

```
 * Creates new form BookTour
 */
public BookTour() {
    initComponents();
    initCustomComponents();
}

@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
    this.setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 699, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGap(0, 503, Short.MAX_VALUE)
    );
}// </editor-fold>


// Variables declaration - do not modify
// End of variables declaration




private void initCustomComponents() {
    setLayout(new BorderLayout(0, 10));
    setBackground(new Color(245, 245, 250)); // light background


    // --- Header ---
    JPanel header = new JPanel(new BorderLayout());
    header.setBackground(new Color(50, 100, 200));
    header.setPreferredSize(new Dimension(0, 60));
    JLabel title = new JLabel("BOOK TOUR", SwingConstants.CENTER);
    title.setForeground(Color.WHITE);
    title.setFont(new Font("Segoe UI", Font.BOLD, 40));
```

```
header.add(title, BorderLayout.CENTER);

add(header, BorderLayout.NORTH);


// --- Form Panel ---

JPanel form = new JPanel();

form.setBackground(new Color(245, 245, 250));

form.setLayout(new GridBagLayout());

GridBagConstraints gbc = new GridBagConstraints();

gbc.insets = new Insets(10,10,10,10);

gbc.anchor = GridBagConstraints.WEST;


// Labels and Fields

JLabel lblName = new JLabel("Full Name:");

JTextField txtName = new JTextField(20);

JLabel lblEmail = new JLabel("Email ID:");

JTextField txtEmail = new JTextField(20);

JLabel lblContact = new JLabel("Contact Number:");

JTextField txtContact = new JTextField(20);
```

```
JLabel lblPackage = new JLabel("Select Package:");

String[] packages = {"Ooty Delight","Goa Getaway","Kerala Escape","Manali
Magic","Jaipur Heritage","Kodaikanal Misty Hills", "Andaman
Adventure","Kashmir Paradise",

    "Shimla Summer Break","Rajasthan Royal Tour","Coorg Coffee
Trails","Darjeeling Dream", "Leh-Ladakh Expedition","Tirupati Spiritual
Tour","Chennai City Explorer",

    "Delhi-Agra Taj Splendor","Rameswaram Temple Tour","Munnar Tea Valley
Trip","Hyderabad Heritage Trail","Meghalaya Waterfall Escape"};

JComboBox<String> cbPackage = new JComboBox<>(packages);



JLabel lblPeople = new JLabel("Number of People:");

JTextField txtPeople = new JTextField(5);



JLabel lblDate = new JLabel("Select Date:");

JSpinner dateSpinner = new JSpinner(new SpinnerDateModel());

JSpinner.DateEditor dateEditor = new JSpinner.DateEditor(dateSpinner, "dd-
MM-yyyy");

dateSpinner.setEditor(dateEditor);



gbc.gridx = 0; gbc.gridy = 0; form.add(lblName, gbc);

gbc.gridx = 1; form.add(txtName, gbc);
```

```
gbc.gridx = 0; gbc.gridy = 1; form.add(lblEmail, gbc);

gbc.gridx = 1; form.add(txtEmail, gbc);


gbc.gridx = 0; gbc.gridy = 2; form.add(lblPackage, gbc);

gbc.gridx = 1; form.add(cbPackage, gbc);


gbc.gridx = 0; gbc.gridy = 3; form.add(lblDate, gbc);

gbc.gridx = 1; form.add(dateSpinner, gbc);


gbc.gridx = 0; gbc.gridy = 4; form.add(lblPeople, gbc);

gbc.gridx = 1; form.add(txtPeople, gbc);


gbc.gridx = 0; gbc.gridy = 5; form.add(lblContact, gbc);

gbc.gridx = 1; form.add(txtContact, gbc);


add(form, BorderLayout.CENTER);


JPanel buttons = new JPanel(new FlowLayout(FlowLayout.CENTER, 15, 5));
```

```
buttons.setBackground(new Color(245, 245, 250));



JButton btnBook = new JButton("Book Now");

btnBook.setBackground(new Color(40, 180, 99));

btnBook.setForeground(Color.WHITE);

btnBook.setFocusPainted(false);

btnBook.addActionListener((ActionEvent e) -> {

    String name = txtName.getText().trim();

    String email = txtEmail.getText().trim();

    String contact = txtContact.getText().trim();

    String pack = (String) cbPackage.getSelectedItem();

    String people = txtPeople.getText().trim();

    String dateDisplay = new SimpleDateFormat("dd-MM-
yyyy").format(dateSpinner.getValue());

    String dateDB = new SimpleDateFormat("yyyy-MM-
dd").format(dateSpinner.getValue());



    // Validation

    if (name.isEmpty() || email.isEmpty() || contact.isEmpty() || people.isEmpty()) {

        JOptionPane.showMessageDialog(this, "Please fill all required fields!",
"Error", JOptionPane.ERROR_MESSAGE);
```

```
            return;
        }

        // Validate email format
        if (!email.matches("^[A-Za-z0-9+_.-]+@(.+)$")) {
            JOptionPane.showMessageDialog(this, "Please enter a valid email address!",
"Error", JOptionPane.ERROR_MESSAGE);
            return;
        }

        // Validate contact number
        if (!contact.matches("^[0-9]{10}$")) {
            JOptionPane.showMessageDialog(this, "Please enter a valid 10-digit contact
number!", "Error", JOptionPane.ERROR_MESSAGE);
            return;
        }

        // Validate number of people
        int peopleCount;
        try {
```

```
            peopleCount = Integer.parseInt(people);
            if (peopleCount <= 0) {
                throw new NumberFormatException();
            }
        } catch (NumberFormatException ex) {
            JOptionPane.showMessageDialog(this, "Please enter a valid number of
people (greater than 0)!", "Error", JOptionPane.ERROR_MESSAGE);
            return;
        }


        int confirm = JOptionPane.showConfirmDialog(
            this,
            "Confirm booking for " + pack + "?\n\n" +
            "Name: " + name + "\n" +
            "Email: " + email + "\n" +
            "Date: " + dateDisplay + "\n" +
            "People: " + people,
            "Confirm Booking",
            JOptionPane.YES_NO_OPTION);
```

```
        if (confirm == JOptionPane.YES_OPTION) {

            // Save to database

            if (saveBookingToDatabase(name, email, contact, pack, dateDB,
peopleCount)) {

                JOptionPane.showMessageDialog(this,

                    "☑ Booking saved successfully!\nBooking ID will be sent to your
email.",

                    "Success",

                    JOptionPane.INFORMATION_MESSAGE);



                // Open Payment Page

                JFrame frame = new JFrame("Payment");

                frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);

                frame.setSize(700, 500);

                frame.setLocationRelativeTo(null);



                Payment paymentPanel = new Payment();

                frame.add(paymentPanel);

                frame.setVisible(true);
```

```
            // Clear form
            txtName.setText("");
            txtEmail.setText("");
            txtContact.setText("");
            txtPeople.setText("");
            cbPackage.setSelectedIndex(0);


        } else {
            JOptionPane.showMessageDialog(this,
                "❌ Failed to save booking. Please try again or contact support.",
                "Error",
                JOptionPane.ERROR_MESSAGE);
        }
    }
});


JButton btnCancel = new JButton("Cancel");
btnCancel.setBackground(new Color(220, 53, 69));
btnCancel.setForeground(Color.WHITE);
```

```
    btnCancel.setFocusPainted(false);

    btnCancel.addActionListener(e -> {

        int result = JOptionPane.showConfirmDialog(this,

            "Are you sure you want to cancel?",

            "Cancel Booking",

            JOptionPane.YES_NO_OPTION);

        if (result == JOptionPane.YES_OPTION) {

            this.setVisible(false);

        }

    });



    buttons.add(btnBook);

    buttons.add(btnCancel);

    add(buttons, BorderLayout.SOUTH);

}



/**

 * Save booking data to database

 */
```

```
private boolean saveBookingToDatabase(String name, String email, String contact,
                                      String packageName, String date, int people) {
    String sql = "INSERT INTO booktour (full_name, email, contact, package_name,
travel_date, people_count) VALUES (?, ?, ?, ?, ?, ?)";


    try (Connection con = DBConnection.getConnection();
        PreparedStatement pst = con.prepareStatement(sql)) {


        if (con == null) {
            System.out.println("❌ Failed to get database connection");
            return false;
        }


        pst.setString(1, name);
        pst.setString(2, email);
        pst.setString(3, contact);
        pst.setString(4, packageName);
        pst.setString(5, date);
        pst.setInt(6, people);
```

```
            int result = pst.executeUpdate();


            if (result > 0) {
                System.out.println("✅ Booking saved: " + name + " - " + packageName);
                return true;
            }
            return false;


        } catch (SQLException ex) {
            System.out.println("❌ Database Error: " + ex.getMessage());
            ex.printStackTrace();
            return false;
        }
    }


    // Variables declaration - do not modify
    // End of variables declaration
}
```

Connectivity

```
package com.mycompany.tourpackage;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;



public class DBConnection {

    private static final String URL = "jdbc:mysql://localhost:3306/tour_management";

    private static final String USER = "root";

    private static final String PASS = "Dhanu#1977";



    // Fixed getConnection method

    public static Connection getConnection() {

        try {

            Class.forName("com.mysql.cj.jdbc.Driver");

            return DriverManager.getConnection(URL, USER, PASS);

        } catch (ClassNotFoundException e) {

            System.out.println("❌ Driver not found: " + e.getMessage());

            return null;
```

```
        } catch (SQLException e) {
            System.out.println("❌ Connection failed: " + e.getMessage());
            return null;
        }
    }

    // Test method
    public static void main(String[] args) {
        Connection con = getConnection();
        if (con != null) {
            System.out.println("✅ Connected successfully!");
            try {
                con.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }
    }
}
```

CHAPTER 5

SCREEN SHOTS

Fig 5.1 Introduction page

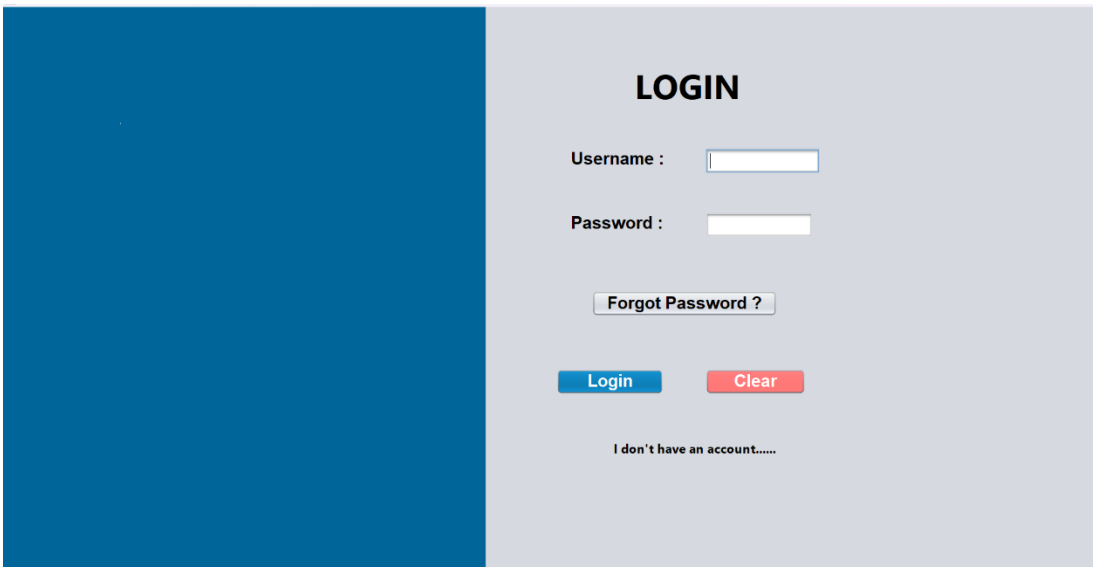


Fig 5.2 Login details

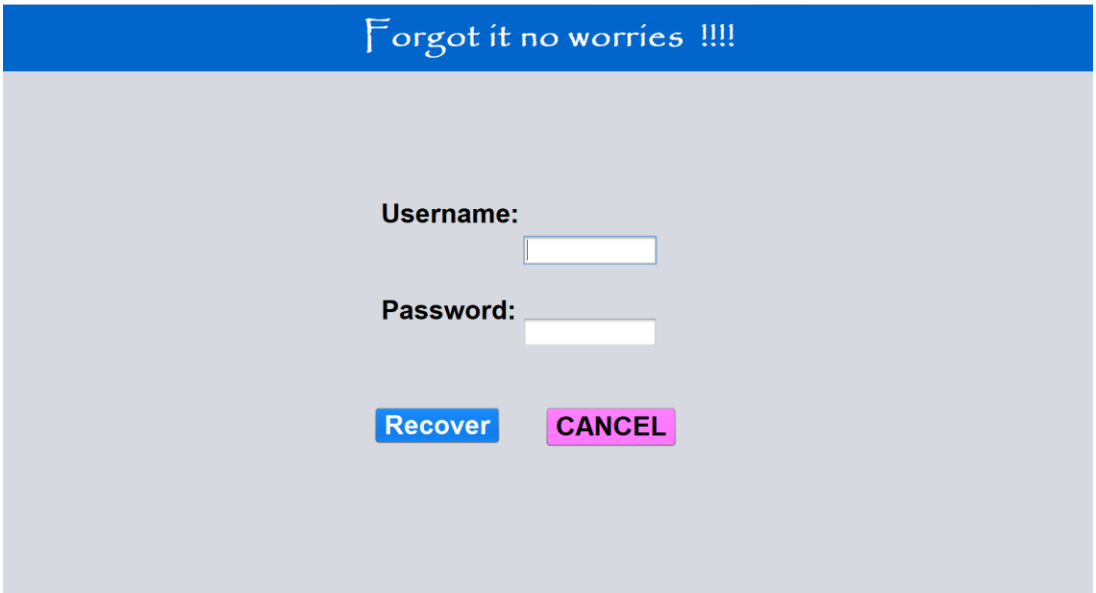


Fig 5.3 Forgot password

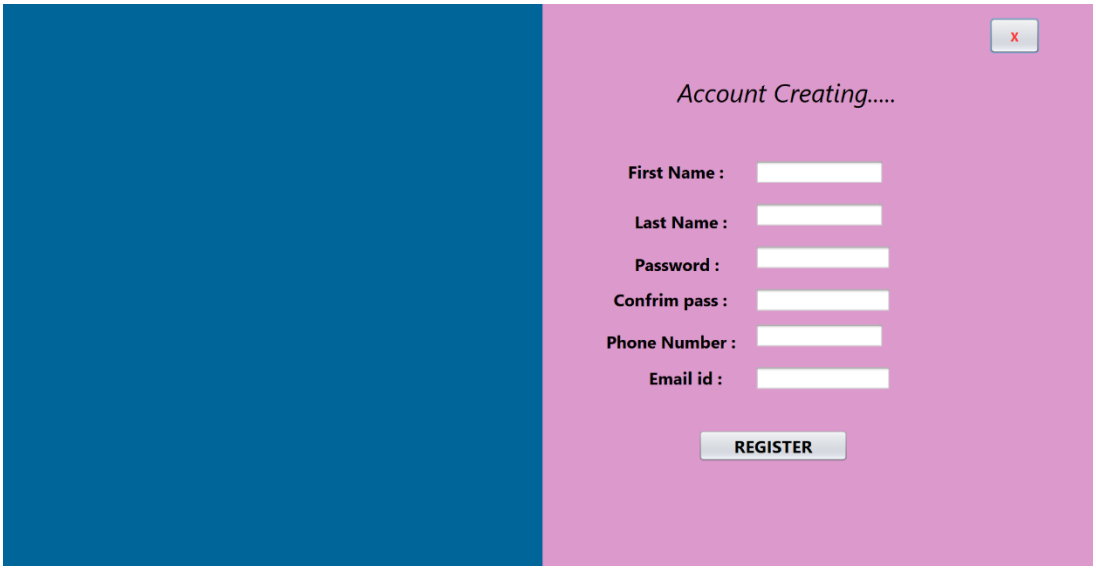


Fig 5.4 Account creation

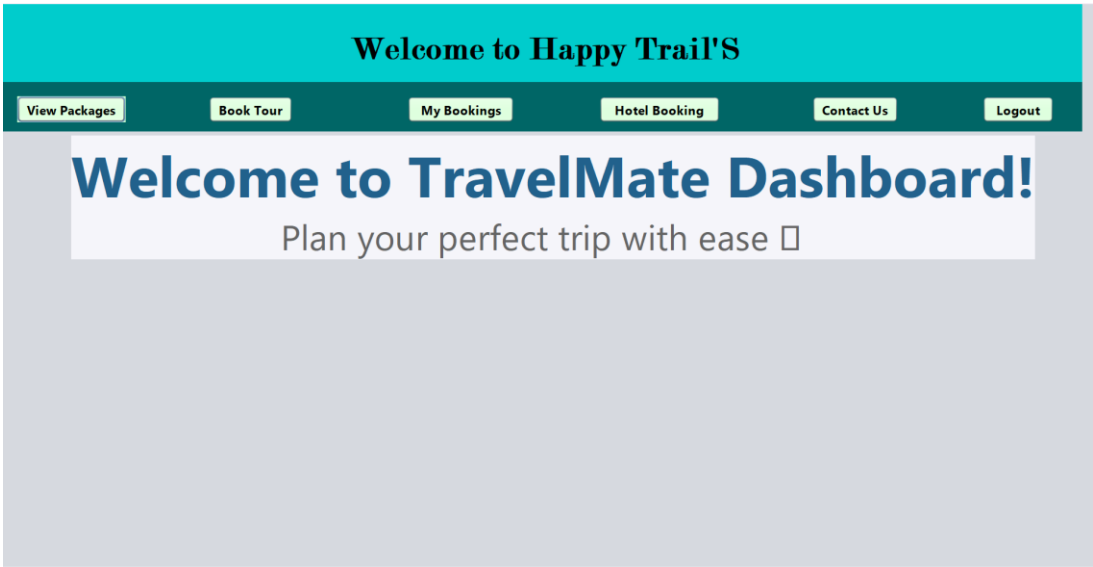
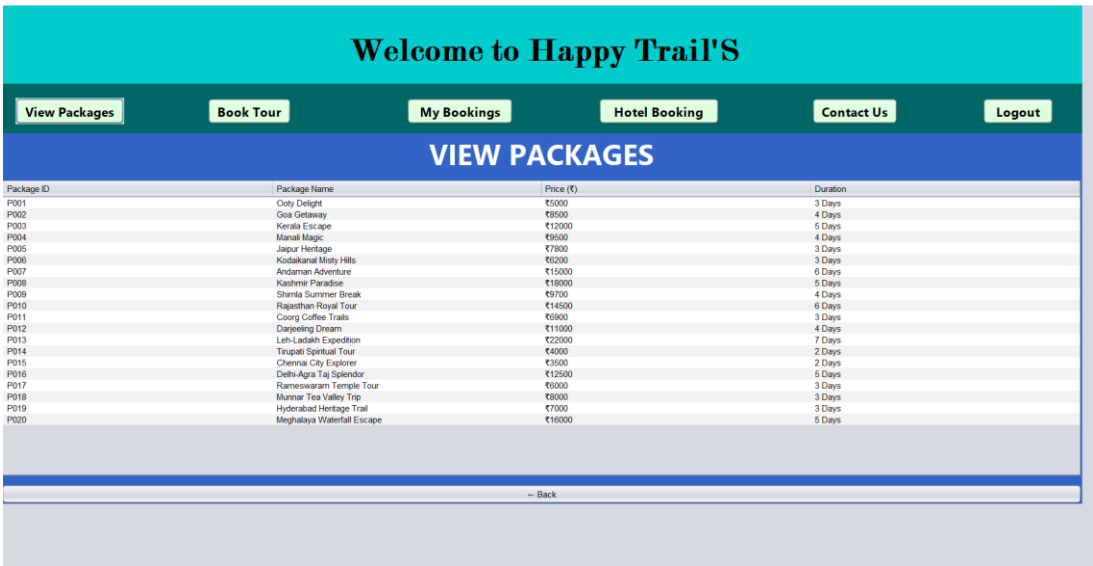


Fig 5.5 Dashboard



Package ID	Package Name	Price (₹)	Duration
P001	Ooty Delight	₹5000	3 Days
P002	Goa Getaway	₹8500	4 Days
P003	Kerala Escape	₹12000	5 Days
P004	Manali Magic	₹9500	4 Days
P005	Jaipur Heritage	₹7800	3 Days
P006	Kodaikanal Misty Hills	₹6200	3 Days
P007	Andaman Adventure	₹15000	6 Days
P008	Kashmir Paradise	₹18000	5 Days
P009	Shimla Summer Break	₹9700	4 Days
P010	Rajasthan Royal Tour	₹14500	6 Days
P011	Coorg Coffee Trails	₹6900	3 Days
P012	Darjeeling Dream	₹11000	4 Days
P013	Leh-Ladakh Expedition	₹22000	7 Days
P014	Tirupati Spiritual Tour	₹4000	2 Days
P015	Chennai City Explorer	₹3500	2 Days
P016	Delhi-Agra Taj Splendor	₹12500	5 Days
P017	Rameswaram Temple Tour	₹6000	3 Days
P018	Munnar Tea Valley Trip	₹8000	3 Days
P019	Hyderabad Heritage Trail	₹7000	3 Days
P020	Meghalaya Waterfall Escape	₹16000	5 Days

Fig 5.6 View package

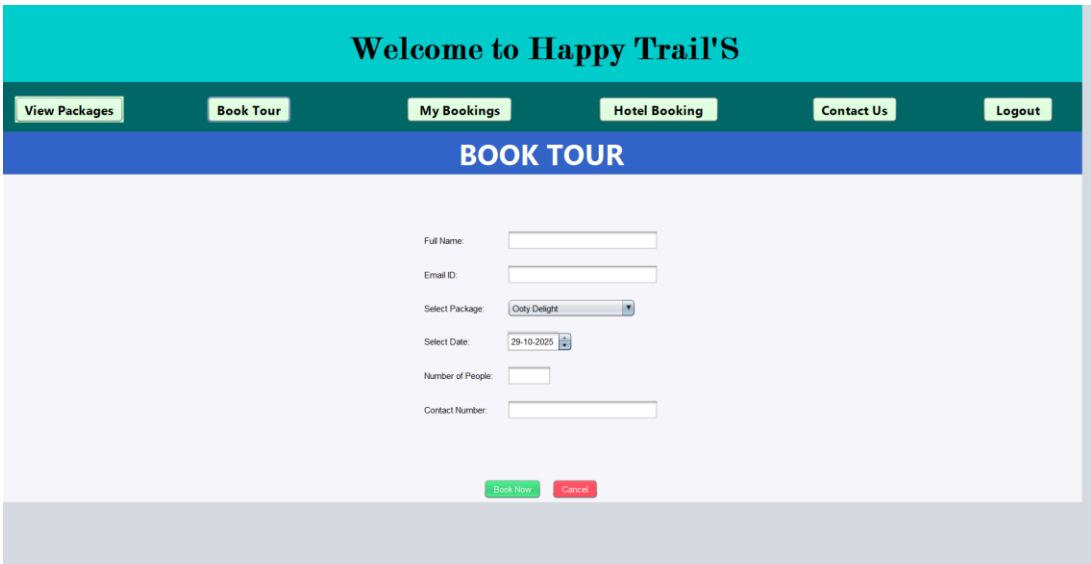


Fig 5.7 Booking tour

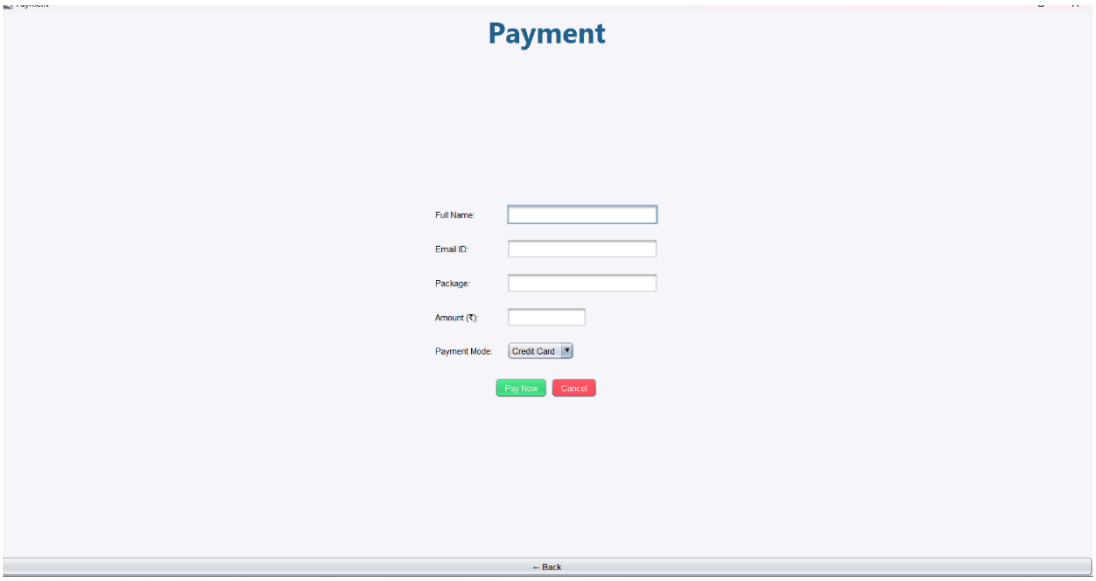


Fig 5.8 Payment

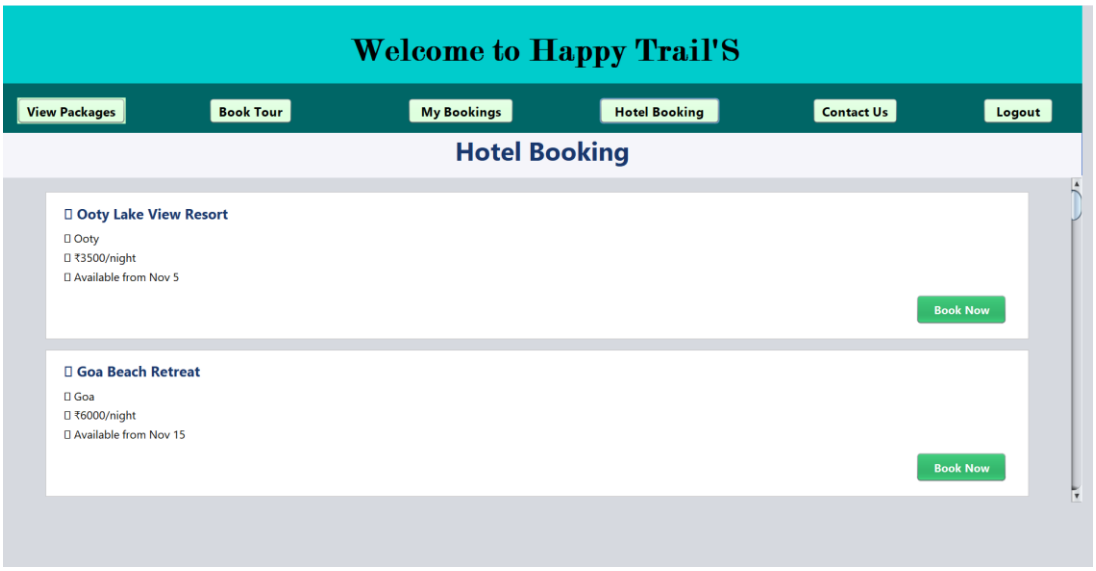


Fig 5.9 Hotel booking

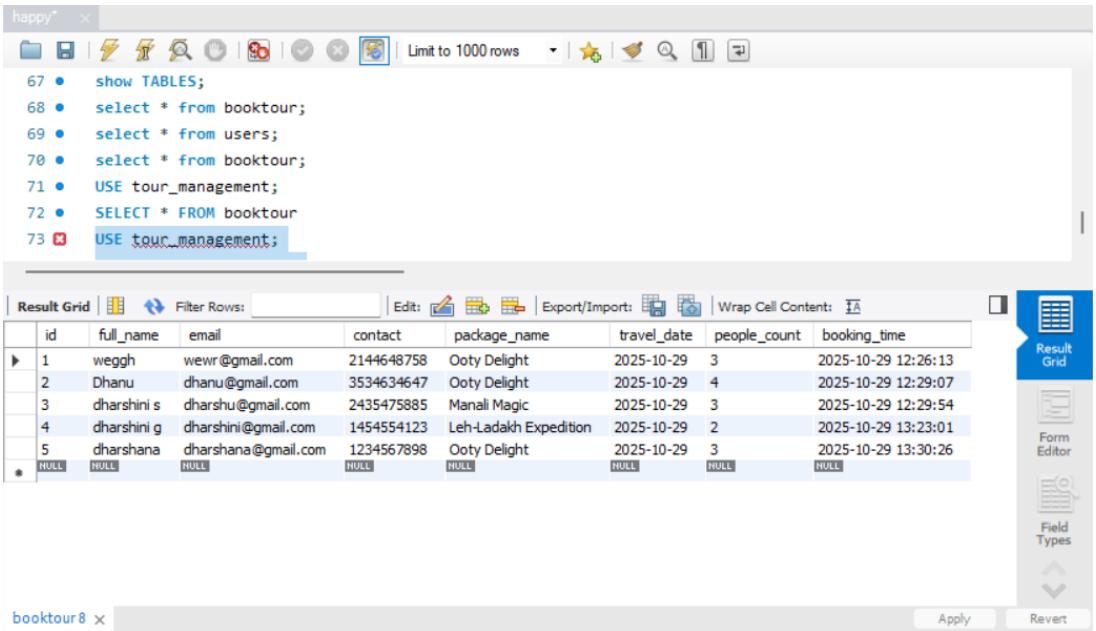


Fig 5.10 output

CHAPTER 6

CONCLUSION AND FUTURE ENHANCEMENT

In such a way, with the help of our project, customers will be able to check the list of bookings and can register themselves to avail a tour packages. The booking system clearly represents the available data of the customers for booking and the number of booking tours using a tour package and management becomes easier. In future people will be able to book tour packages according to the data available in the system and with respect to the availability. Hence this project makes the user and other advantages to be benefitted in all possible ways.

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