FACULTY OF TECHNOLOGY AND ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

PROJECT REPORT ON

TRAVEL AND TOURISM MANAGEMENT SYSTEM

Course: Object Oriented Programming with Java

Class: BE-II CSE (GIA)

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Introduction

- The Travel and Tourism Management System is a Java desktop application designed to digitalize major operations of a travel agency.
- The main purpose of this project is automate booking,customer management,hotel selection,payment handling,and package registration using an easy-to-use graphical interface.
- This system helps users to:
  - Register and log in securely
  - View and update personal details
  - Book tour packages
  - Book hotels
  - Make online payments
  - View booked details
  - Delete their account and associated booking records

- The application is implemented using Java Swing for GUI,JDBC for database connectivity, and MySQL for backend data storage.

FEATURES OF JAVA USED

- OOP Concepts
  Classes,objects,constructors,abstraction and encapsulation

- Java Swing GUI
  JFrame : The main window of a Java Swing application.

JLabel : A component used to display text or images on the GUI.

Jbutton : A clickable button used to perform actions.

JTextField : An input box that allows the user to enter text.

JPasswordField : Special type of text field used to enter passwords.

ImageIcon : Used to load images from the “icons” folder and display them on the window.

Choice : Dropdown list that allows selection of one item from multiple options.

TextArea : Display multiple lines of text.

JEditorPane : Display webpages or formatted HTML content inside the application.

- Event handling
  All buttons and user actions are handled using java's event driven model.

- Exception Handling : The project handles errors using try-catch blocks.

- Java JDBC : Connect the Java application with MySQL.

- Images and Multimedia Support : The ImageIcon and Image classes are used for adding images to forms,Resizing images,Using banner Images.

- Multi-window Navigation : The application uses windows and navigation.

System Design

1. Architectural Design

The follows a 3-tier architecture:

(A) Presentation Layer - Java Swing GUI

User interacts with forms like login,signup,Dashboard,Book Hotel,etc.

(B) Aplication Layer - Java Classes+Business Logic

Fetching data from MySQL

Processing Booking details

Performing cost calculations

Validating inputs

Handling user actions

(C) Database Layer - MySQL

Contains tables:

Account

Customer

Bookpackage

Bookhotel

2. Database Design

User Authenticarion Table

Account(username,name,password,question,answer)

Customer Details

customer(username,id,number,name,gender, country, address,phone,email)

Package Booking

bookhotel(username,name,persons,days,ac,food, number,phone,price)

Hotel Booking

bookhotel(username,name,persons,days,ac,food,id, number,phone,price)

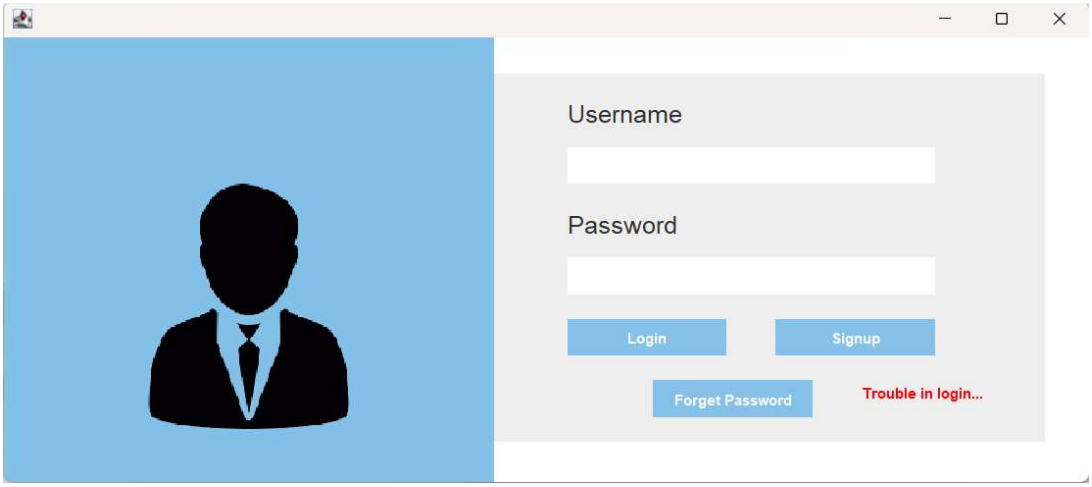
Hotel Master Table

hotel(name,costperpersons,acroom,foodincluded)

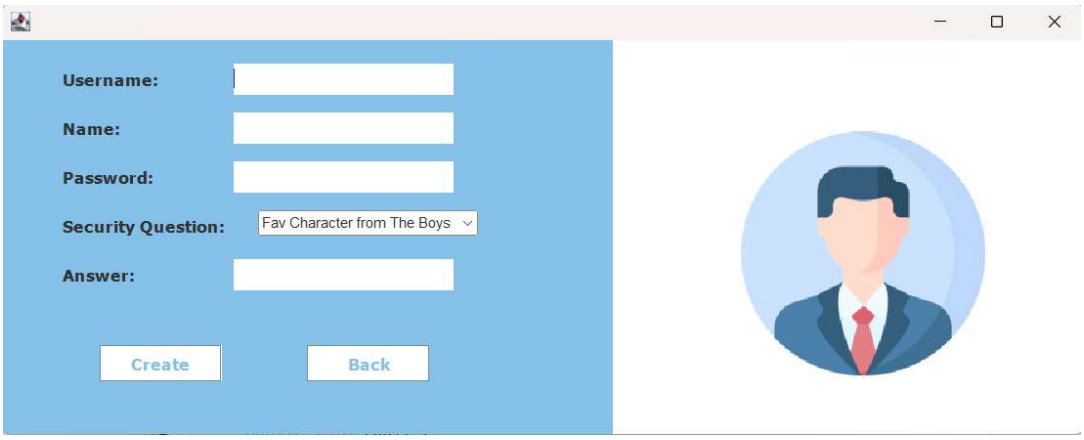
Application Flow :

1. Splash: User open the program

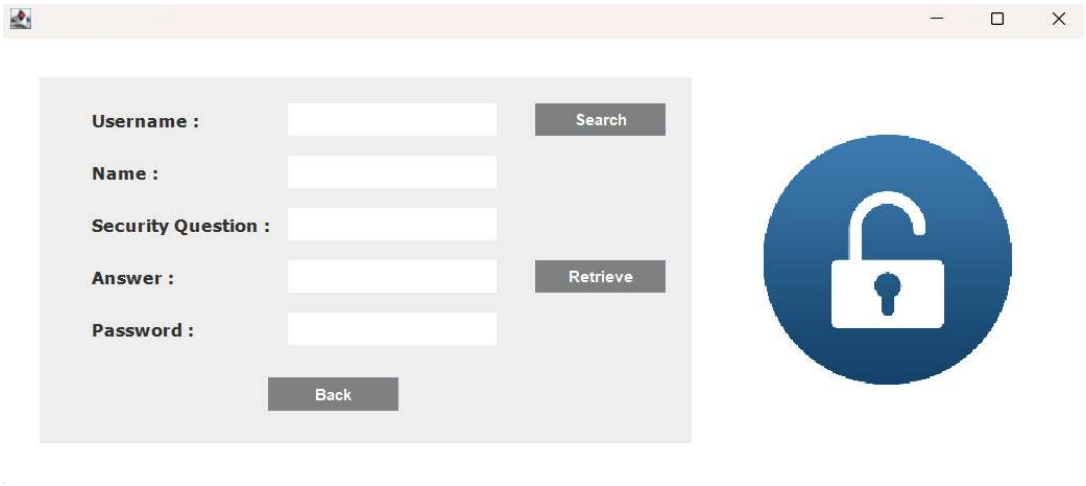
2. Login : Allows users to enter their username and password to access the system. It checks credentials from the database and opens the main dashboard after successful login.



3. **Signup :** Lets new users create an account by entering basic details. The information is stored in the database and used for future login and personalization.

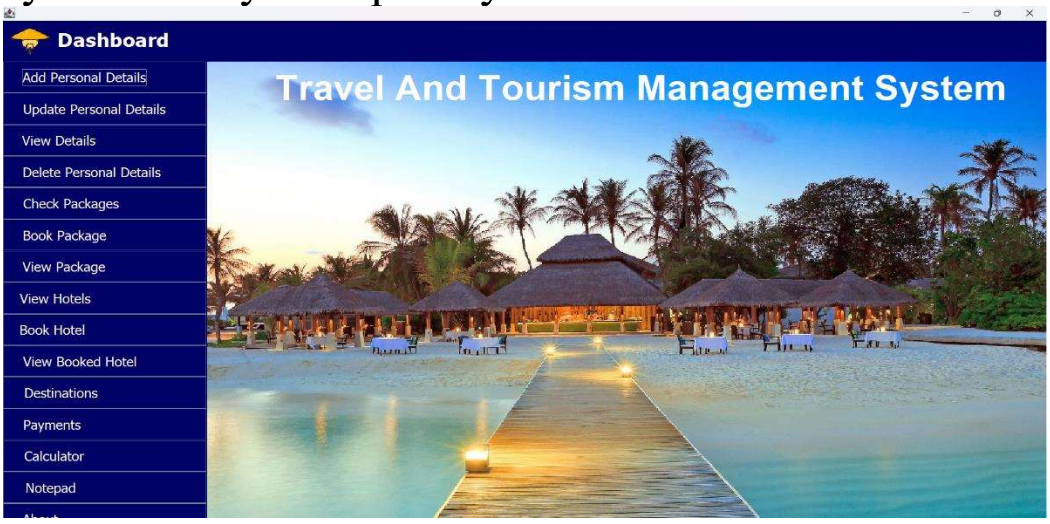


4.ForgetPassword : Helps users recover their account if they forget their password. They can verify their identity by answering a security question and then set a new password. This ensures secure and easy password recovery.

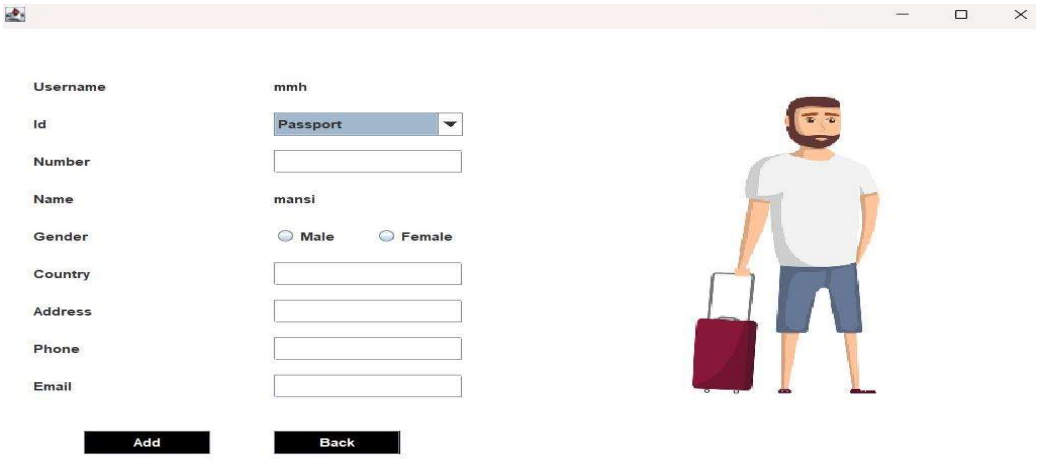


4. **Loading :**This screen shows a progress bar while the application prepares the dashboard. It gives users a smooth transition after login and indicates that the system is processing their data.

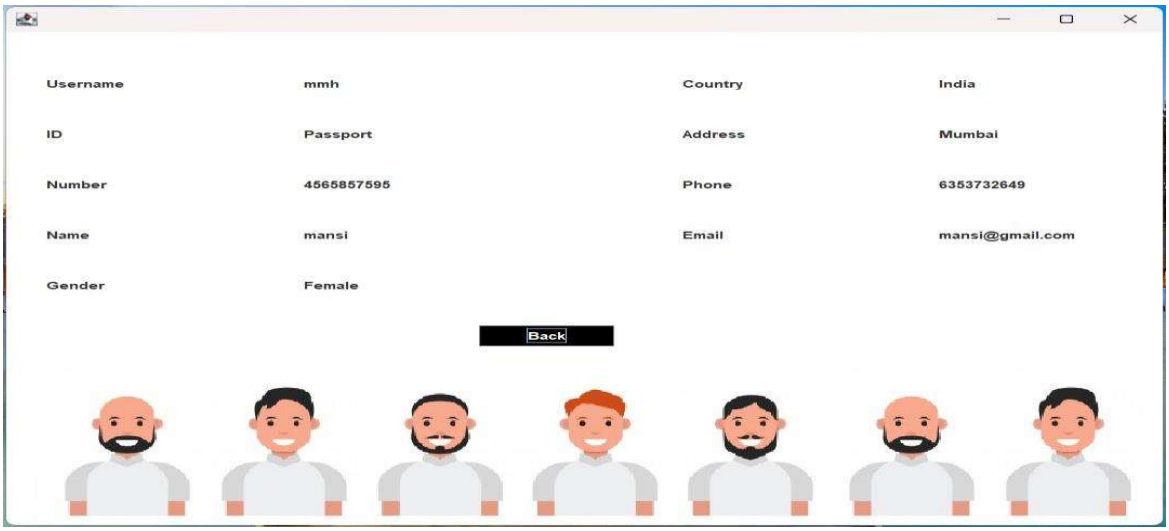
5. **Dashboard :**The dashboard acts as the main control panel of the application. All important features like packages, hotels, bookings, tools, and user details can be accessed from here. It helps the user navigate the entire system easily and quickly.



6. **AddCustomer :**This feature lets users enter their personal details into the system for the first time. It stores information like name, address, phone number, and ID safely in the database. It ensures the application can personalize services based on the user's profile.

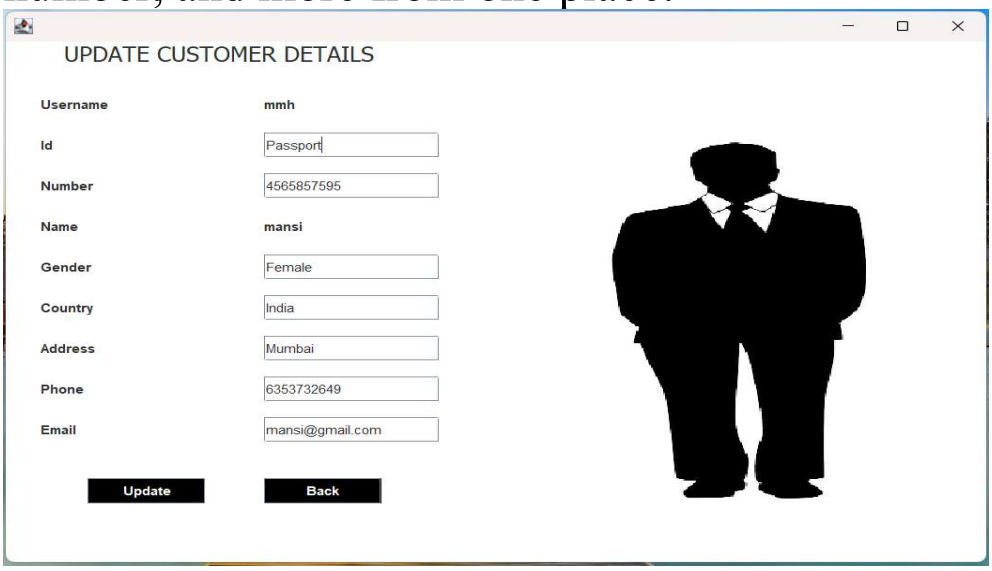


7. **ViewCustomer :**This section shows all the personal details a user has added to their profile. It helps users review their stored information in one place. They can quickly confirm whether their details are correct before making bookings.



8. **UpadteCustomer :**This feature allows users to edit or correct their personal details whenever needed. It ensures that all stored information stays accurate and up to date. Users can update fields like name, address, phone

number, and more from one place.



9. **CheckPackage :**This section displays all the available travel packages in a simple and organized way. Users can compare package details like price, duration and inclusions. It helps them decide which package suits their needs before booking.

Package 1 | Package 2 | Package 3

GOLD PACKAGE

6 Days and 7 Nights

Airport Assistance

Half Day City Tour

Daily Buffet

Soft Drinks Free

Full Day 3 Island Cruise

English Speaking Guide

Book Package

SUMMER SPECIAL Rs 32000/-

Package 1 | Package 2 | Package 3

SILVER PACKAGE

5 Days and 6 Nights

Toll Free

Entrance Free Tickets

Meet and Greet at Airport

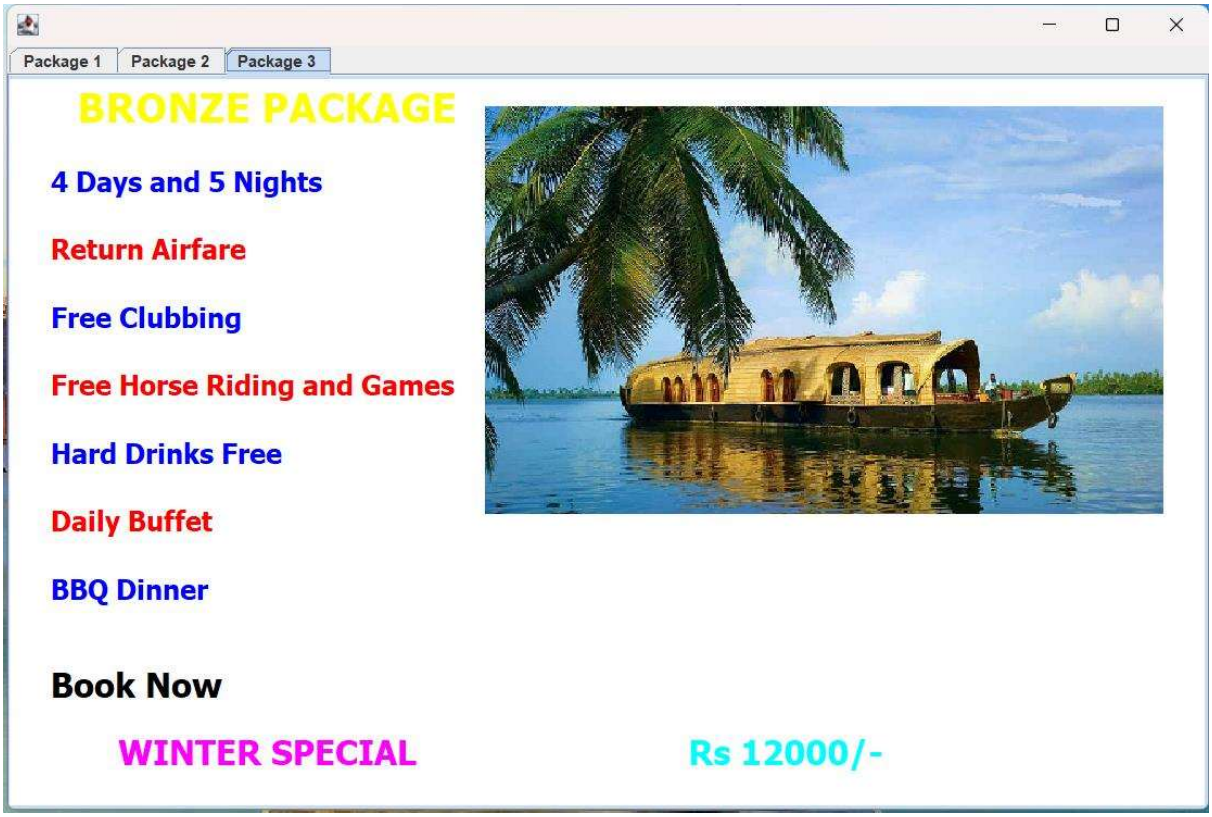
Welcome Drinks on Arrival

Night Safari

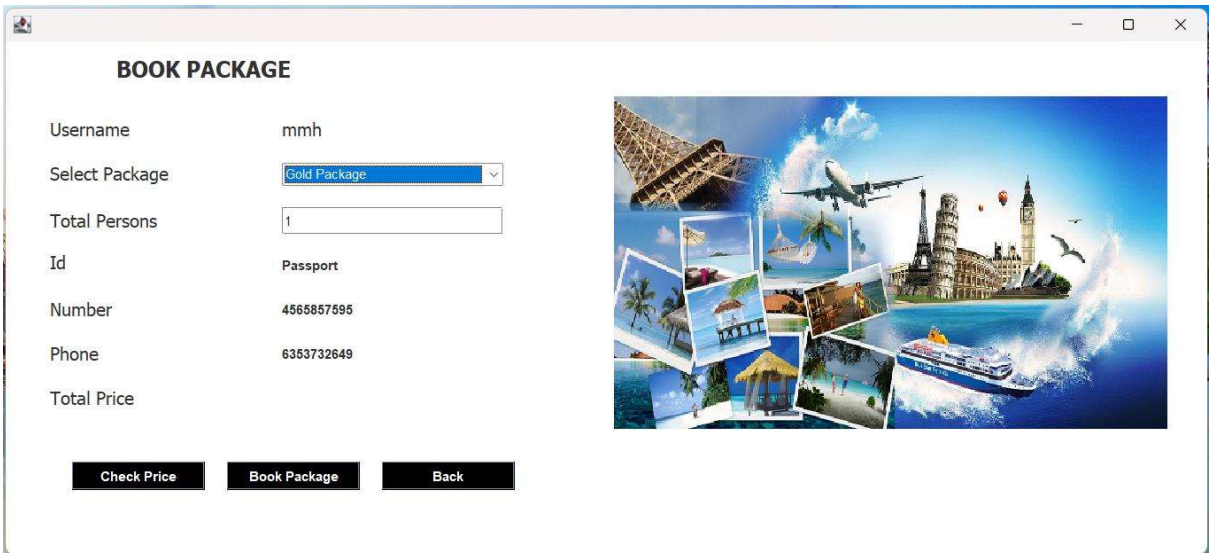
Cruise With Dinner

Book Now

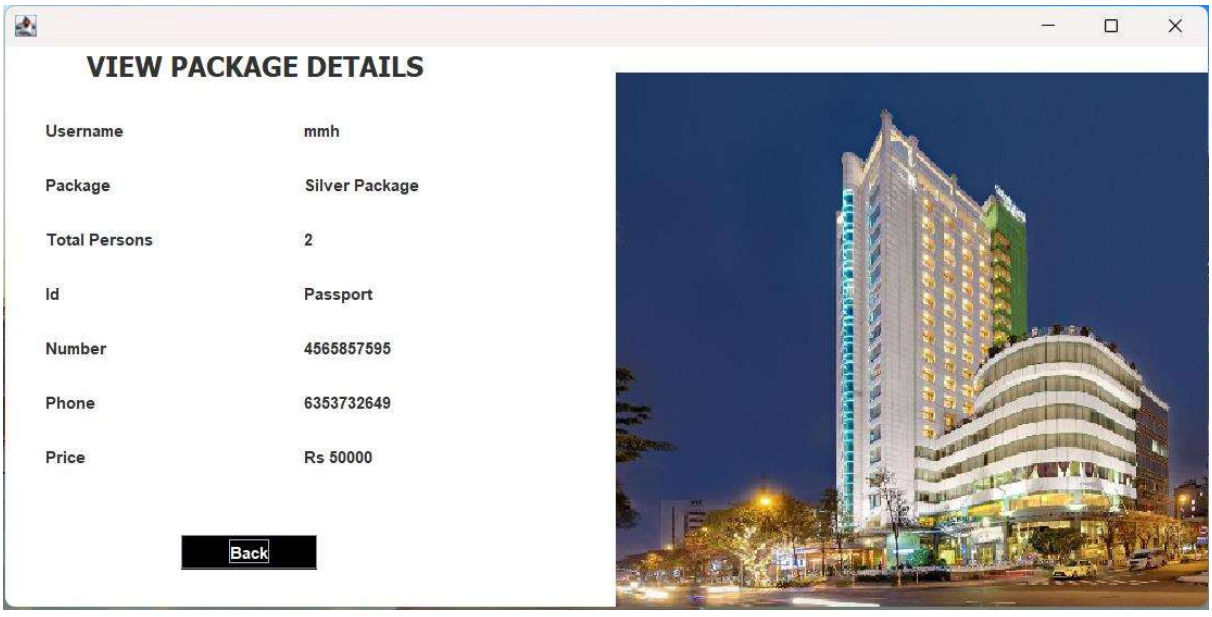
WINTER SPECIAL Rs 24000/-



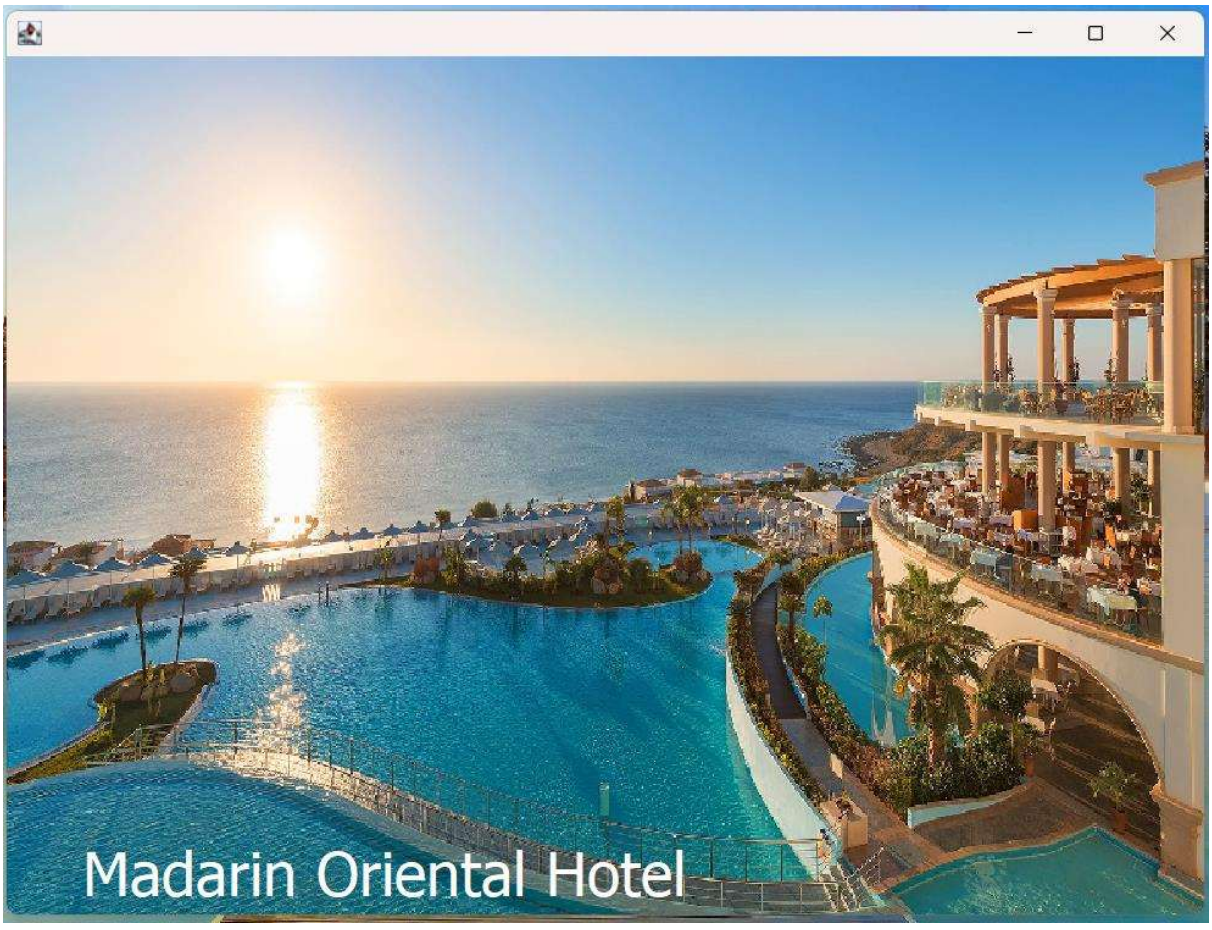
10. **BookPackage :**This feature allows users to select a travel package and enter their personal details to confirm the booking. The system calculates the total cost based on the number of people. Once booked, the package details are stored in the database for future reference.



11. **ViewPackage :**Shows all packages booked by the user along with details like price, duration and ID. Useful for reviewing or confirming past bookings.

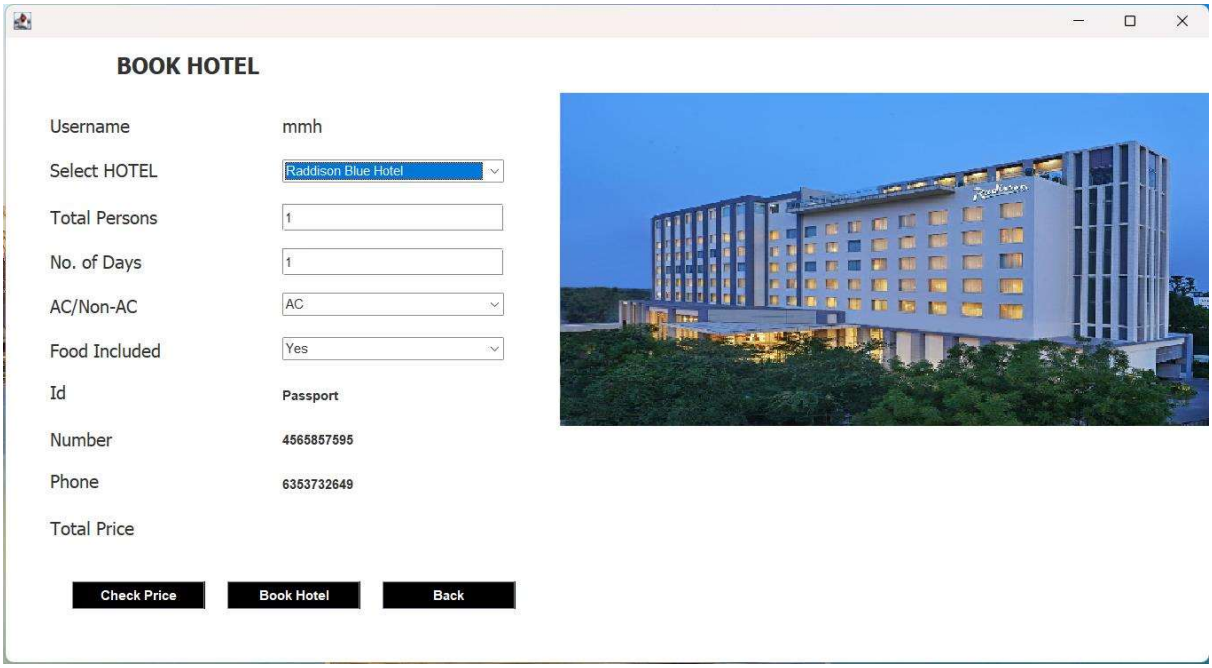


12. **CheckHotels :**This section displays a list of available hotels along with details like room cost, AC charges, and food options. It helps users compare different hotels before making a booking. The information is shown in a clean, easy-to-read layout for quick decision-making.

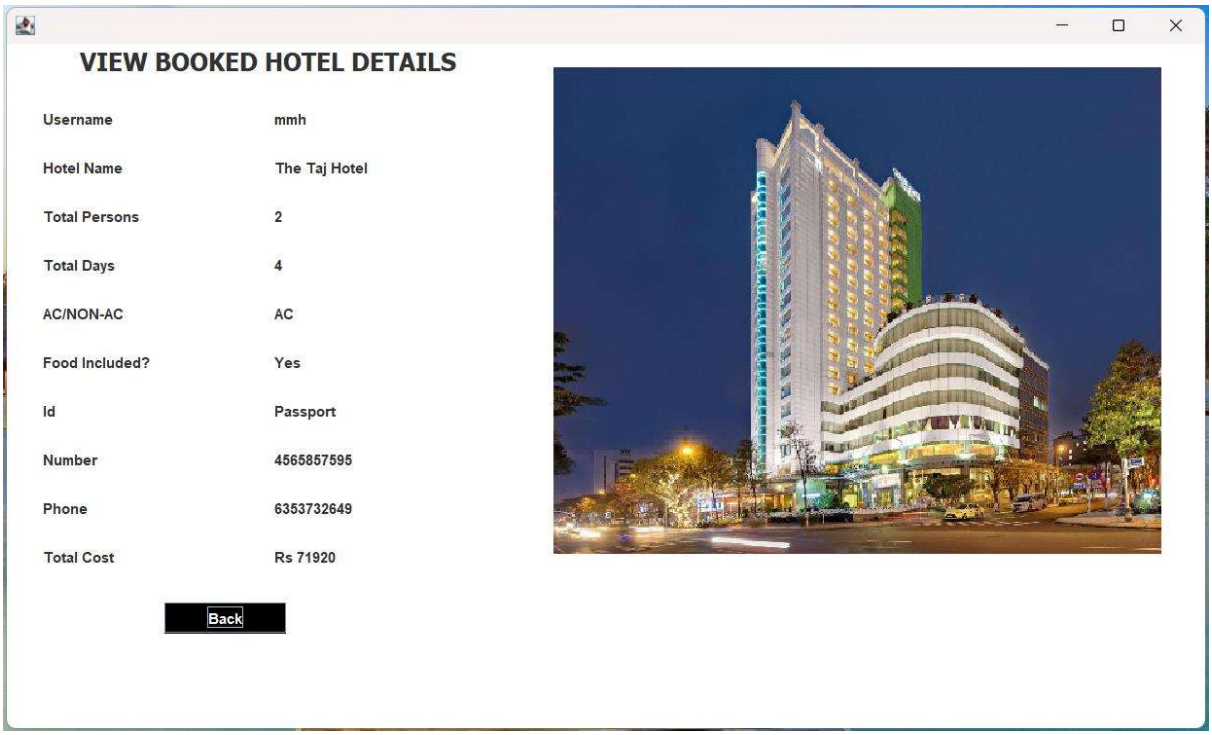


13. **Destinations :**This module shows a slideshow of popular travel destinations with images and captions. It helps users explore attractive places visually before planning their trip. The sliding images create an engaging preview of various hotels and locations.

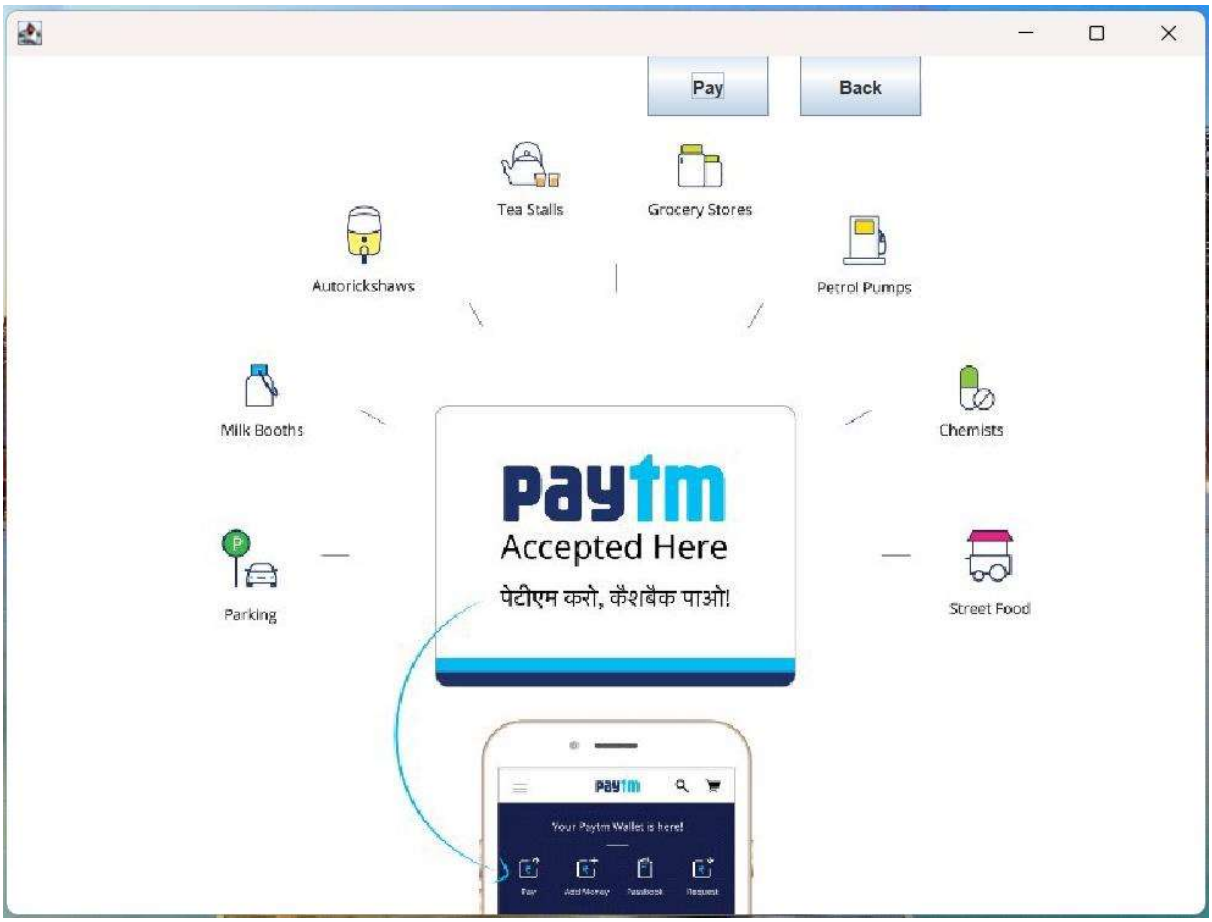
14. **BookHotel :**Lets users book a hotel by selecting days, number of persons, AC or non AC rooms, and food options. The system calculates the total cost and stores the booking.



15. **ViewBookedHotel :**Displays details of the hotel the user has booked. Helps them confirm their stay and check information.

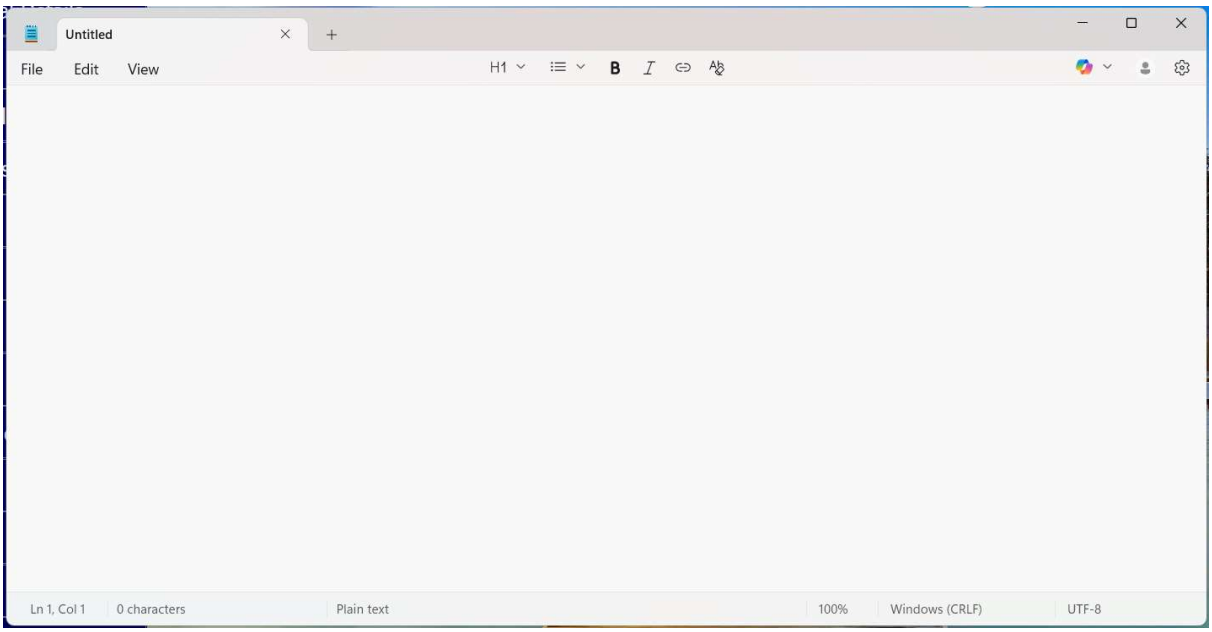


16. **Payment :**Opens the payment interface where users can proceed with the Paytm payment page. Creates a real-life experience of making digital payments.

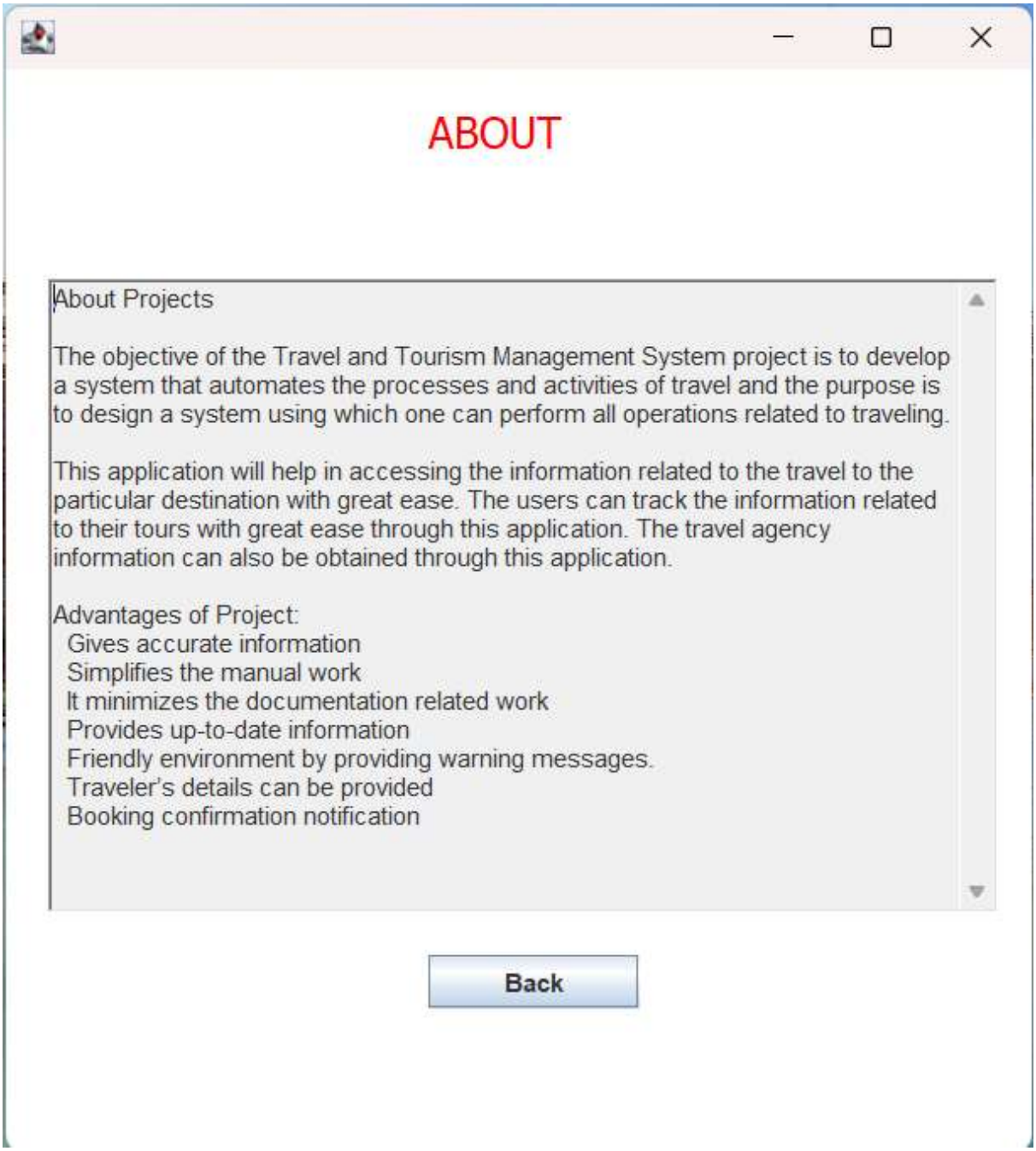


17. **Calculator :** A simple built-in calculator that helps users with basic calculations while planning expenses.

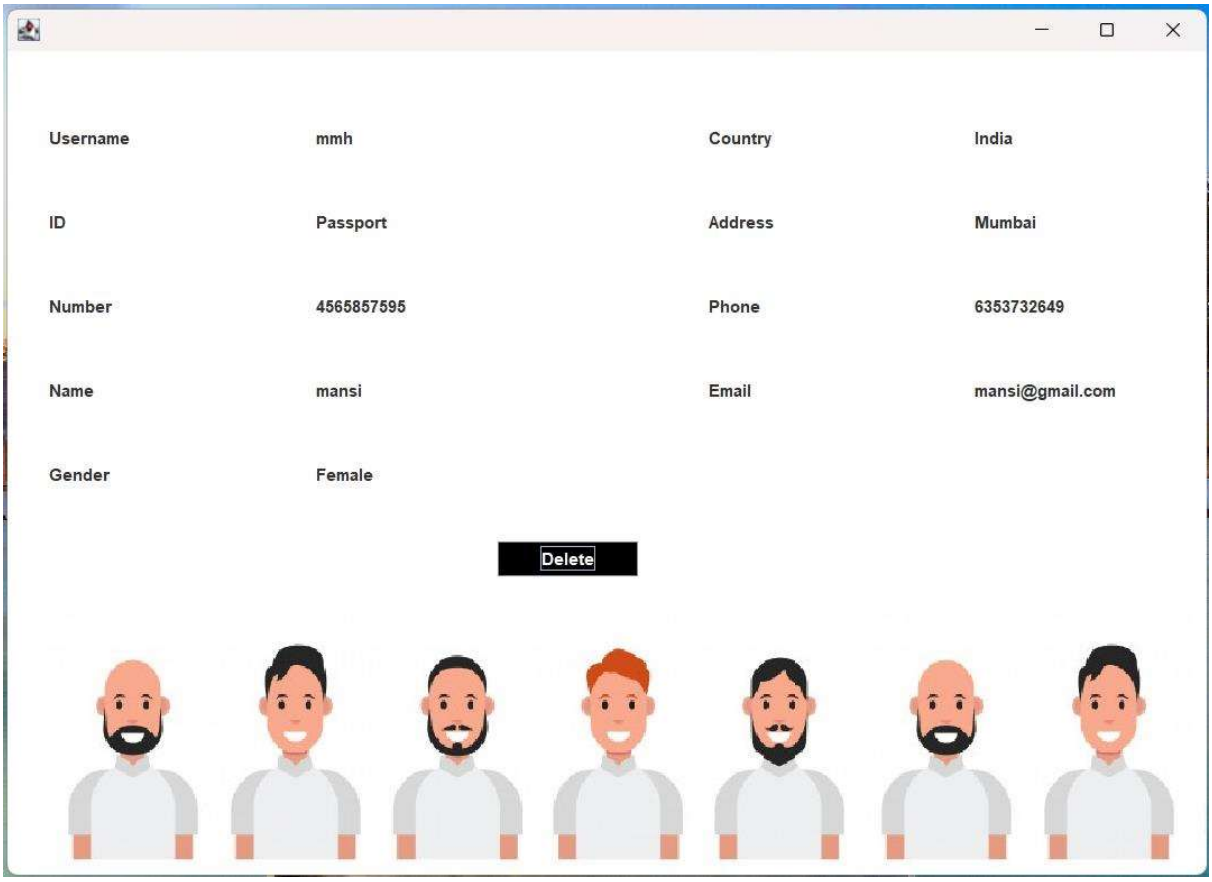
18. **Notepad :** Opens the system's notepad so users can take quick notes without leaving the application.



19. **About :**Gives a short description of the project, its purpose and benefits. Helps the user understand what the system offers.



20. **DeleteDetails:** This feature allows users to remove their personal and account information from the system. It ensures that all related data, including bookings and records, are permanently deleted when requested.


Username
mmh
Country
India
ID
Passport
Address
Mumbai
Number
4565857595
Phone
6353732649
Name
mansi
Email
mansi@gmail.com
Gender
Female
Delete

Conclusion :

The Travel and Tourism Management System successfully automates major operations of a travel agency.It eliminates manual work,reduces errors , and improves efficiency for both travelers and administrators.
With the use of :

- Java Swing for GUI
- JDBC for database connectivity
- MySQL for backend storage

…the system provides a complete and reliable solution for travel management.
This project demonstrates knowledge of:

- Object-Oriented Programming
- GUI - Oriented Programming
- Database handling
- Event-driven programming
- Exception management

The system is simple,efficient,user-friendly,and highly Scalable for future upgrades like online ticket booking And integration with real APIs.