Travel Agency System

A MINI PROJECT REPORT

Submitted by

Yash Mehta [RA2011030010066]
Mohithaa E [RA2011030010083]

Under the guidance of
Dr.Thanga Revathi S
(Associate Professor, NWC)

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SCHOOL OF COMPUTING
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SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
KATTANKULATHUR - 603203

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COLLEGE OF ENGINEERING & TECHNOLOGY
SRM INSTITUTE OF SCIENCE &
TECHNOLOGY
S.R.M. NAGAR, KATTANKULATHUR – 603 203

BONAFIDE CERTIFICATE

Certified that this project report **"Travel Management System"** is the bonafide work of **"**

Yash Mehta[RA2011030010066],Mohithaa E [RA2011030010083]" of III Year/VI Sem B.tech(CSE) who carried out the mini project work under my supervision for the course 18CSC303J-Database Management systems in SRM Institute of Science and Technology during the academic year 2022-2023(Even sem).

Dept. of Networking and Communications
Kattankulathur
603 203
SRM IST

SIGNATURE

DR Thanga Revathi S.
Assistant Professor
Networking And Communications

SIGNATURE

DR Annapurani Paniyappan K
Head of Department
Networking and Communications

ABSTRACT

Database is an organized collection of data. The data is typically organized to model aspects of reality in a way that supports processes requiring information. A DBMS makes it possible for end users to create, read, update and delete data in a database. The DBMS essentially serves as an interface between the database and end users or application programs, ensuring that data is consistently organized and remains easily accessible. The DBMS manages three important things: the data, the database engine that allows data to be accessed, locked and modified and the database schema, which defines the database's logical structure. These three foundational elements help provide concurrency, security, data integrity and uniform administration procedures. The DBMS can offer both logical and physical data independence. That means it can protect users and applications from needing to know where data is stored or having to be concerned about changes to the physical structure of data.

A Travel Management System (TMS) is a software solution that streamlines the process of booking and managing travel arrangements for individuals and organizations.

It provides a centralized platform that allows users to book flights, hotels, rental cars, and other travel-related services, as well as manage their itineraries and receive real-time updates on travel-related information.

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ABBREVIATION

CSS	Cascading Style Sheet
DB	Data Base
SQL	Structured Query Language
UI	User Interface
DBMS	Database Management System

INTRODUCTION

This Project presents a Travel Management System (TMS) that aims to provide an efficient and convenient way for travelers to plan, book, and manage their trips. The system offers a user-friendly interface that allows users to search for flights, hotels, rental cars, and other travel services. It also provides real-time information about flight schedules, prices, and availability, making it easier for travelers to make informed decisions.

The TMS is designed to streamline the travel booking process, reduce costs, and increase traveler satisfaction. It automates many of the manual tasks associated with travel planning, such as searching for flights, comparing prices, and booking reservations. The system also offers features that help travelers manage their itineraries, such as reminders, alerts, and notifications.

The TMS is suitable for individuals, families, and businesses of all sizes. It offers customizable solutions for different types of travelers, such as frequent flyers, business travelers, and vacationers. The system is scalable and can accommodate large volumes of bookings, making it ideal for travel agencies and other organizations in the travel industry.

Overall, the Travel Management System presented in this paper offers a comprehensive and integrated solution for travelers to plan, book, and manage their trips. Its user-friendly interface, real-time information, and automation features make it a valuable tool for anyone looking to streamline their travel planning process and enhance their overall travel experience

PROBLEM STATEMENT

The problem addressed by a Travel Management System (TMS) is the inefficient and time-consuming process of booking and managing travel arrangements. Without a TMS, travelers and travel managers must rely on manual processes, such as paper-based booking forms, phone calls, and email exchanges, to book flights, hotels, rental cars, and other travel-related services. This process can be error-prone, time-consuming, and result in missed opportunities to save money.

Moreover, travelers and travel managers may face a lack of visibility into travel-related information, such as flight delays, cancellations, and gate changes, which can lead to confusion and disruption. Additionally, there may be a lack of control over travel expenses, resulting in overspending and poor budget management.

The Travel Management System aims to address these problems by providing an automated and integrated platform for booking and managing travel arrangements. It eliminates the need for manual processes, provides real-time updates on travel-related information, and offers cost-saving benefits through discounted rates and better deals. The system also provides a centralized platform for managing travel expenses and allows for greater control and visibility over travel arrangements.

Therefore, the problem statement for a Travel Management System is to create a user-friendly, efficient, and cost-effective solution that streamlines the travel booking process, improves travel management efficiency, and provides a more enjoyable travel experience for users.

OBJECTIVE

The objective of creating a Travel Management System (TMS) is to provide an automated and integrated platform for booking and managing travel arrangements, with the following specific objectives:

1. Streamline the travel booking process: The TMS should simplify the process of booking travel arrangements, allowing users to quickly and easily search for and book flights, hotels, rental cars, and other travel-related services from a single platform.

2. Improve travel management efficiency: The TMS should provide a centralized platform for managing travel itineraries, expenses, and updates, making it easier for travel managers to monitor and control travel-related activities.

3. Enhance the traveler experience: The TMS should provide personalized recommendations, 24/7 customer support, and real-time updates on travel-related information, such as flight delays or gate changes, to improve the overall travel experience for users.

4. Optimize travel expenses: The TMS should offer cost-saving benefits through discounted rates, negotiated deals, and tracking of travel expenses, allowing organizations and individuals to optimize their travel budgets.

5. Increase control and visibility: The TMS should provide greater control and visibility over travel arrangements, allowing users to track and manage travel expenses, monitor itinerary changes, and ensure compliance with travel policies.

Overall, the objective of creating a Travel Management System is to provide a user-friendly, efficient, and cost-effective solution that streamlines the travel booking process, improves travel management efficiency, and provides a more enjoyable travel experience for users, while also optimizing travel expenses and increasing control and visibility over travel arrangements.

SCOPE

The scope of a Travel Management System (TMS) includes the following:

1. Travel booking: The TMS should allow users to search for and book flights, hotels, rental cars, and other travel-related services from a single platform.
2. Travel management: The TMS should provide a centralized platform for managing travel itineraries, expenses, and updates, making it easier for travel managers to monitor and control travel-related activities.
3. Travel updates: The TMS should provide real-time updates on travel-related information, such as flight delays or gate changes, to travelers and travel managers, reducing confusion and disruption.
4. Cost-saving benefits: The TMS should offer cost-saving benefits through discounted rates, negotiated deals, and tracking of travel expenses, allowing organizations and individuals to optimize their travel budgets.
5. Compliance: The TMS should ensure compliance with travel policies and regulations, providing greater control and visibility over travel arrangements.
6. Reporting and analytics: The TMS should provide reporting and analytics on travel-related data, such as expenses, itinerary changes, and booking trends, allowing organizations to identify areas for improvement and cost savings.
7. Integration: The TMS should integrate with other travel-related systems, such as expense management software, to provide a seamless and efficient travel management experience.

The scope of the TMS can vary depending on the specific needs and requirements of the organization or individual using it. However, the overall goal of the TMS is to provide a user-friendly, efficient, and cost-effective solution for booking and managing travel arrangements, while also improving the travel experience for users and optimizing travel expenses.

TECHNOLOGY USED

- MySQL

  MySQL is a relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce, and logging applications. The most common use for MySQL is for the purpose of a web database.

- Php

  PHP is an open source, general-purpose scripting language especially suited to web development. PHP scripts are executed on the server. It is a powerful tool for making dynamic and interactive web pages. The client computers accessing the PHP scripts require a web browser only. It is cross platform; this means you can deploy your application on a number of different operating systems such as windows, Linux, Mac OS etc.

- HTML5

  HTML5 is a markup language used for structuring and presenting content on the World Wide Web. HTML5 allows the modification of the appearance of web pages, as well as adjusting their appearance. It is a new version of the language HTML, with new elements, attributes, and behaviors, and a larger set of technologies that allows the building of more diverse and powerful Web sites and applications.

- CSS

  CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language. The separation of HTML from CSS makes it easier to maintain sites, share style sheets across pages, and tailor pages to different environments.

- XAMPP

  XAMPP is an abbreviation for cross-platform, Apache, MySQL, PHP and Perl, and it allows you to build WordPress site offline, on a local web server on your computer. This simple and lightweight solution works on Windows, Linux, and Mac – hence the “cross-platform” part. it is basically localhost or a local server. This local server works on your own desktop or laptop computer. The use of XAMPP is to test the clients or your website before uploading it to the remote web server. This XAMPP server software gives you the suitable environment for testing MYSQL, PHP, Apache, and Perl projects on the local computer.

LITERATURE SURVEY

Here are some sources that you can use for conducting a literature survey on Travel Management Systems:

1. "The impact of Travel Management Systems on Corporate Travel Programs" by CWT Solutions Group - This report provides insights into how TMS can help organizations optimize their travel programs, reduce costs, and improve traveler satisfaction.

2. "Online Travel Agencies: The Benefits of Booking Through a Travel Management System" by Skift - This article discusses the benefits of using a TMS to book travel arrangements, including cost savings, personalized recommendations, and real-time updates.

3. "Travel Management Systems: A Literature Review" by International Journal of Computer Science and Information Technologies - This research paper provides an overview of the various types of TMS available, their features, and the benefits they offer.

4. "The State of Travel Management Technology" by Skift - This report provides an analysis of the current trends in TMS, including the use of mobile applications, the integration of artificial intelligence, and the emergence of new players in the market.

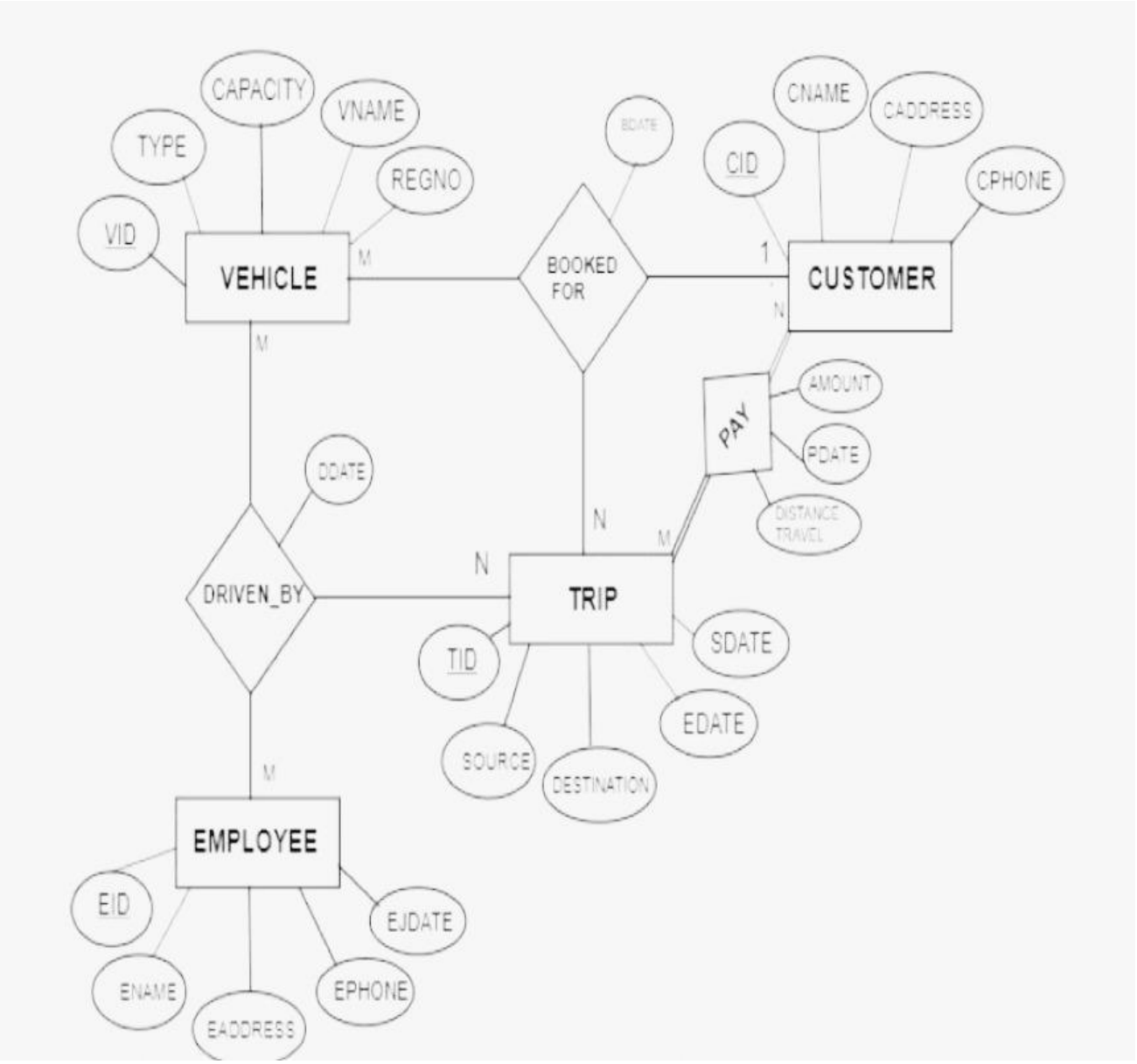
5. "Travel Management System: A Case Study of IT Sector" by International Journal of Computer Applications - This case study analyzes the implementation of a TMS in an IT company, highlighting the benefits achieved and the challenges faced during the implementation process.

6. "How Travel Management Technology is Disrupting the Industry" by Forbes - This article discusses the impact of TMS on the travel industry, including the role of technology in improving the traveler experience, reducing costs, and increasing efficiency.

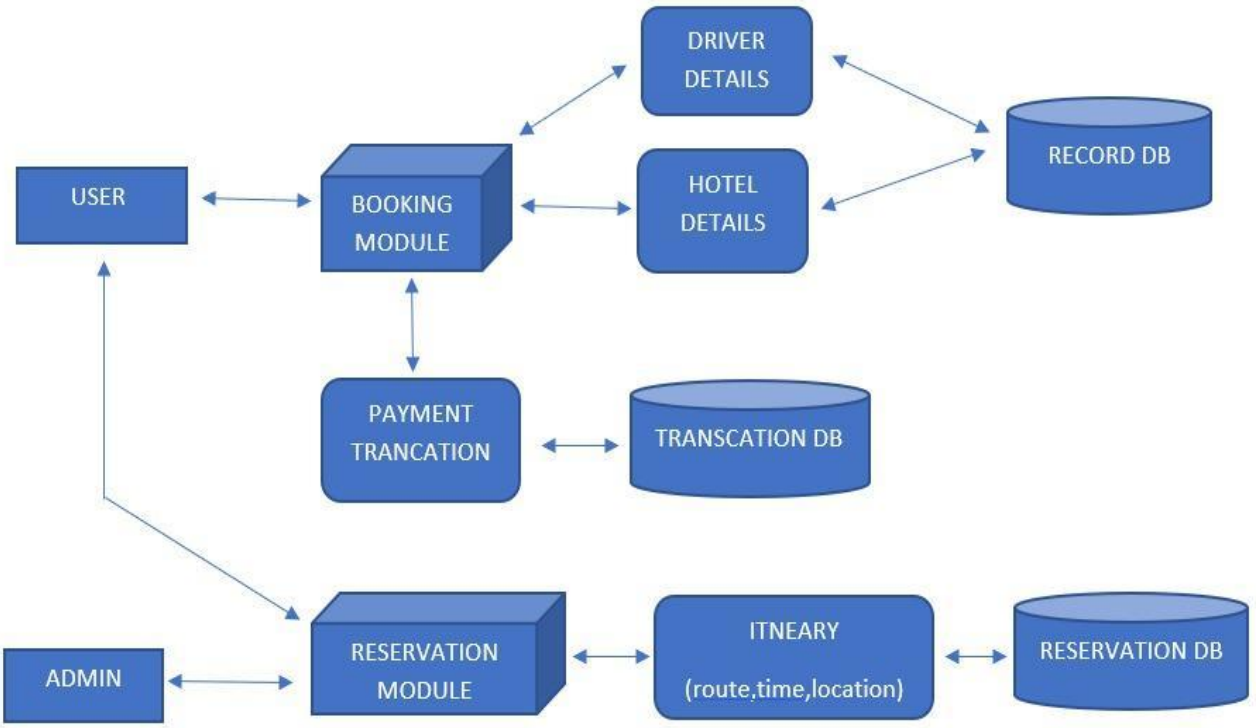
These sources can help you gain a deeper understanding of TMS and its various aspects, including features, benefits, challenges, and implementation.

DIAGRAMS

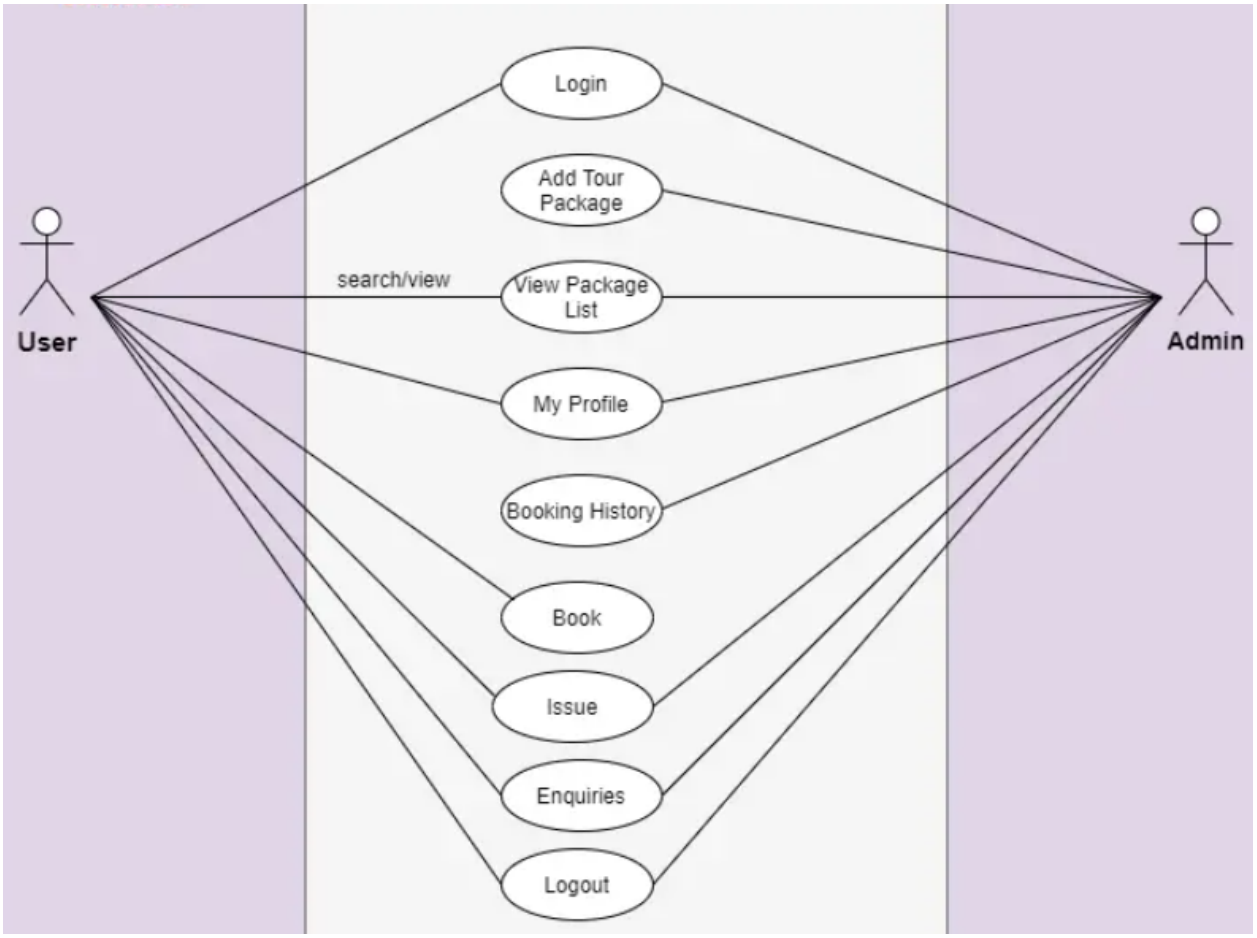
ER DIAGRAM:



ARCHITECTURE DIAGRAM:



USECASE DIAGRAM:

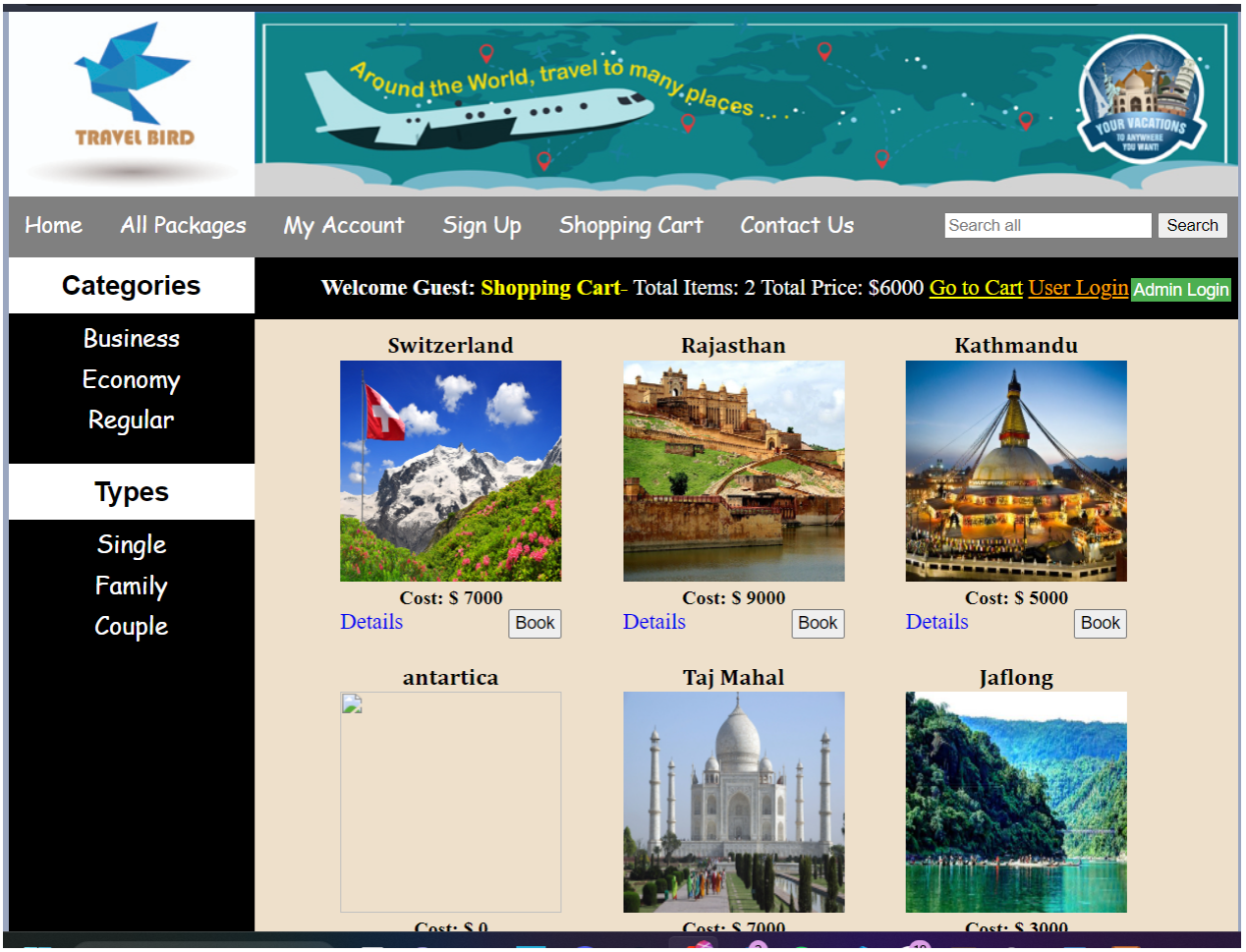


MODULE DESCRIPTION &
UI

The webpage is made to overcome the problems of manual system and 3rd part platform issues. The central objective of our project is to provide online facility for accessing all the travel Details and make the procedure of booking relatively easy.

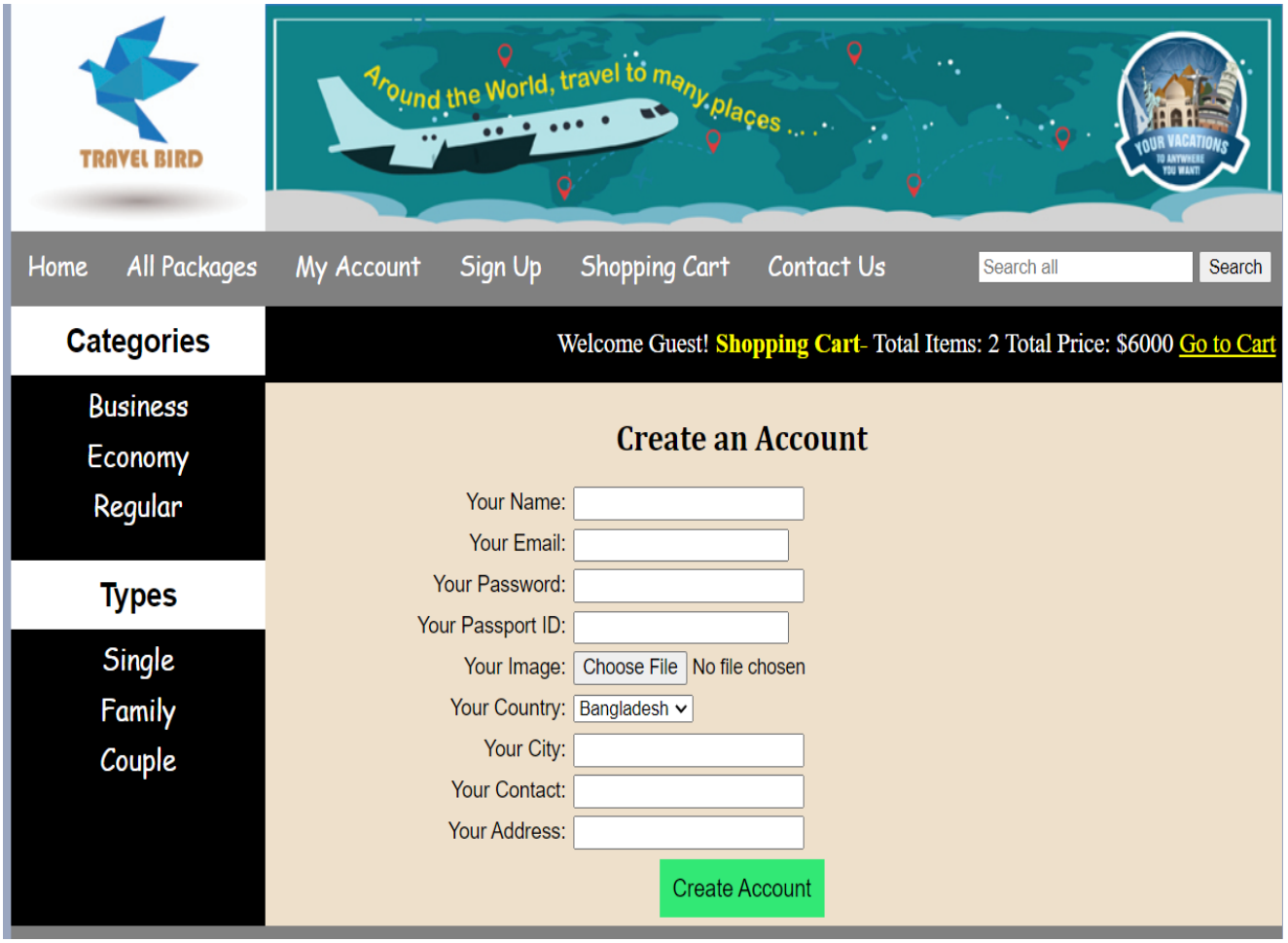
1. Introductory Webpage

This webpage asks user to sign up if you are visiting it first time or else u can Login and use the facilities.



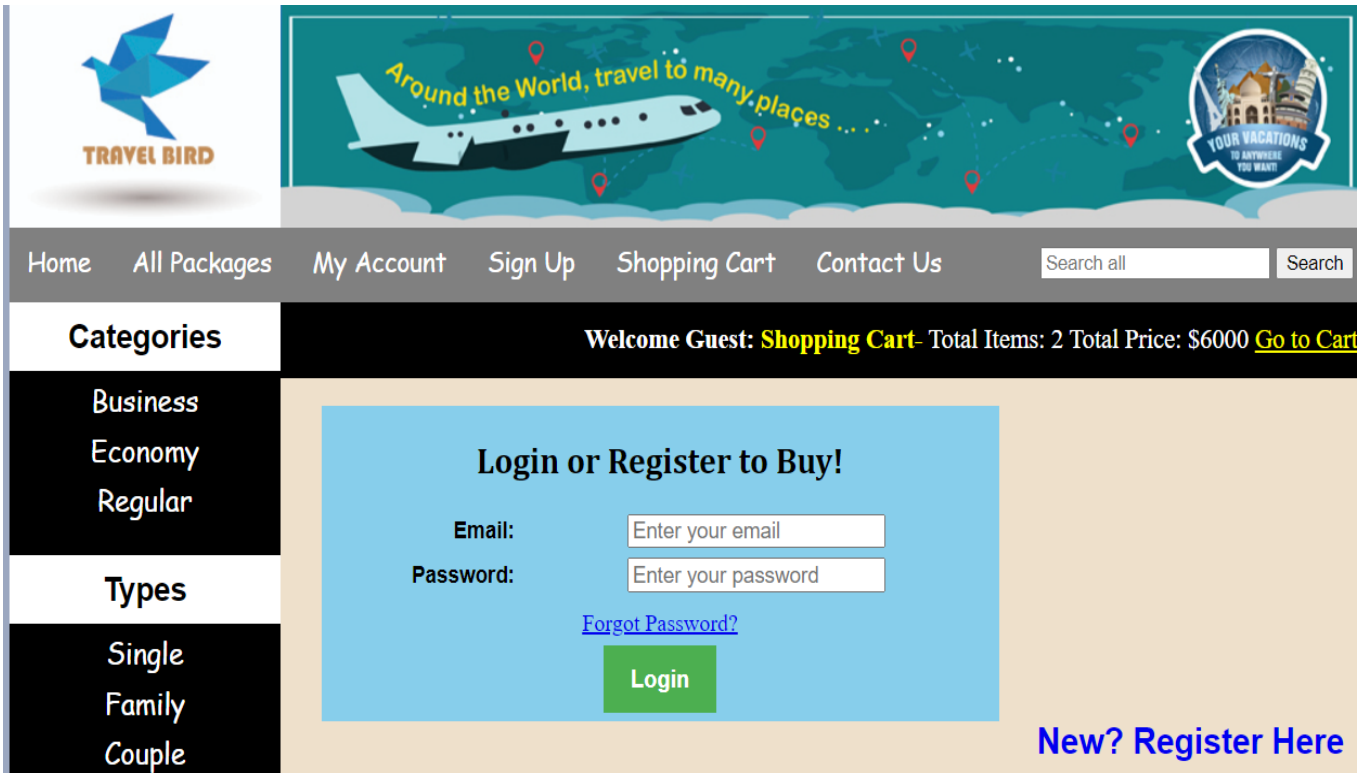
2.Signup Page

Asks you the required details to fill to get the Login details.



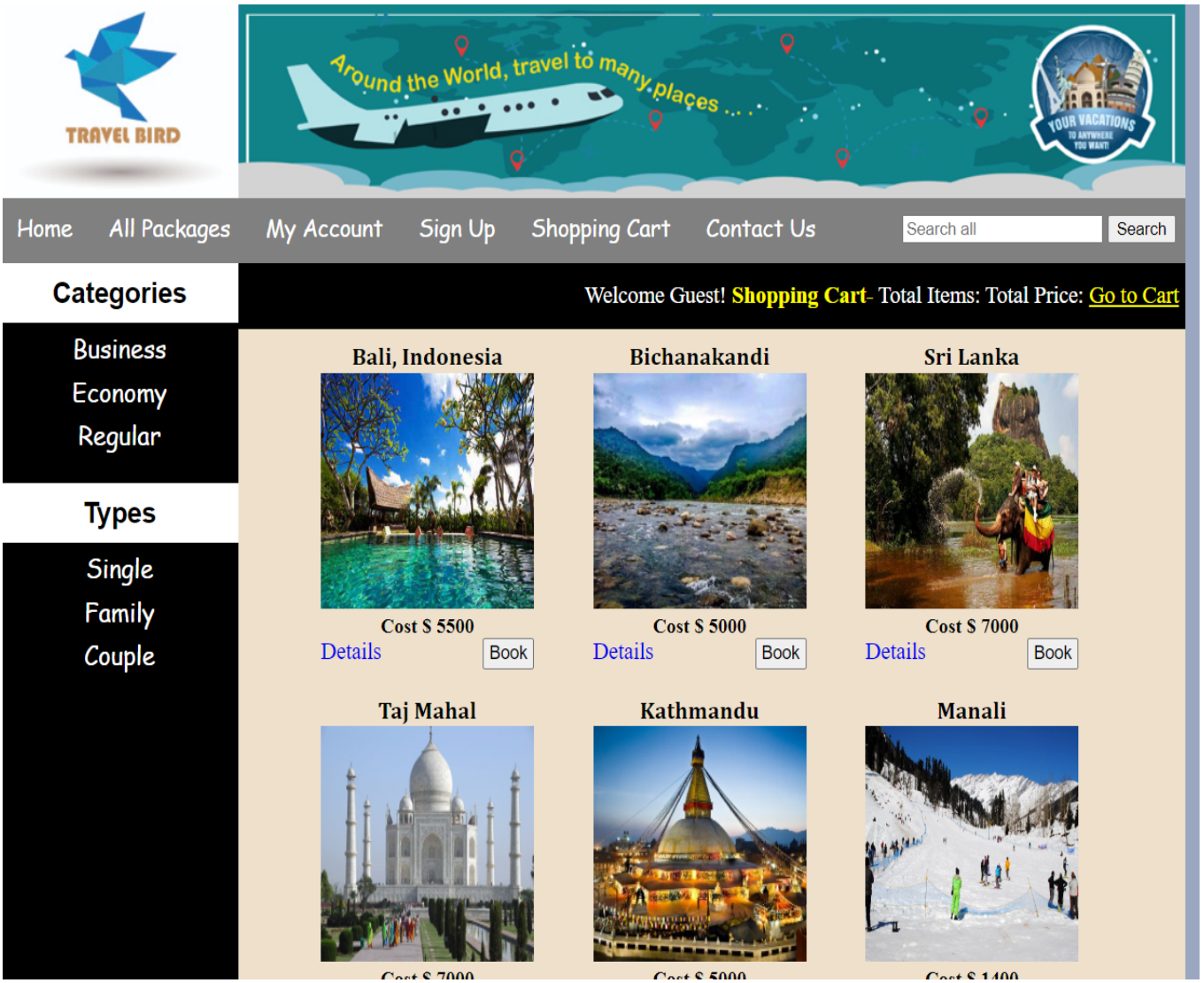
3.Login Page

After Signing in you will get login details .



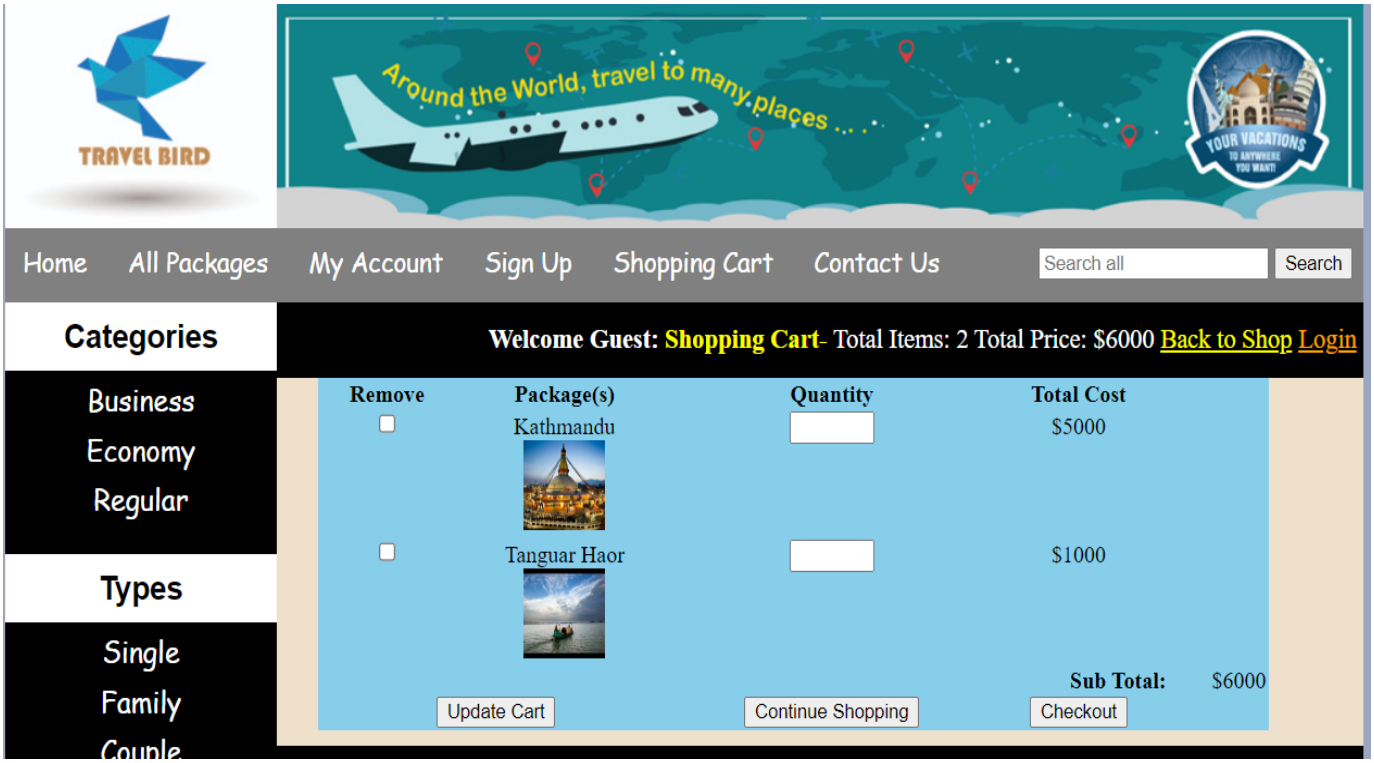
Packages pageFind

In it one could find packages based on different categories



5.Cart Webpage

Shopping cart webpage to check what you are buying

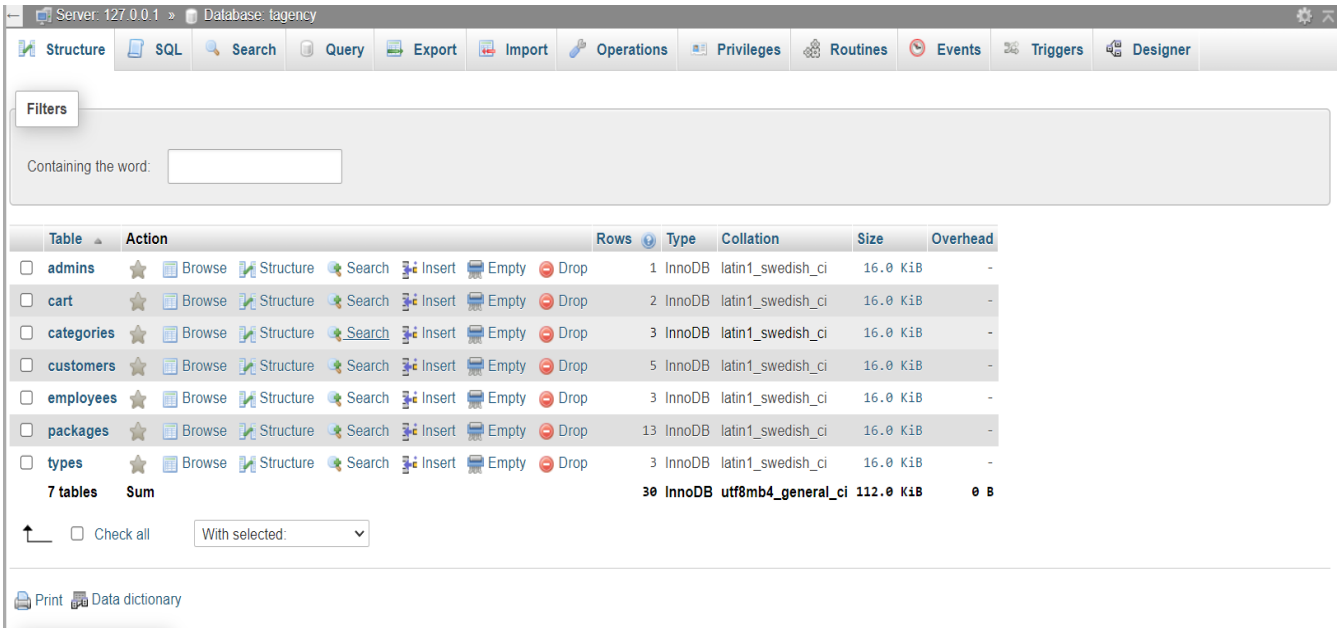


Backend

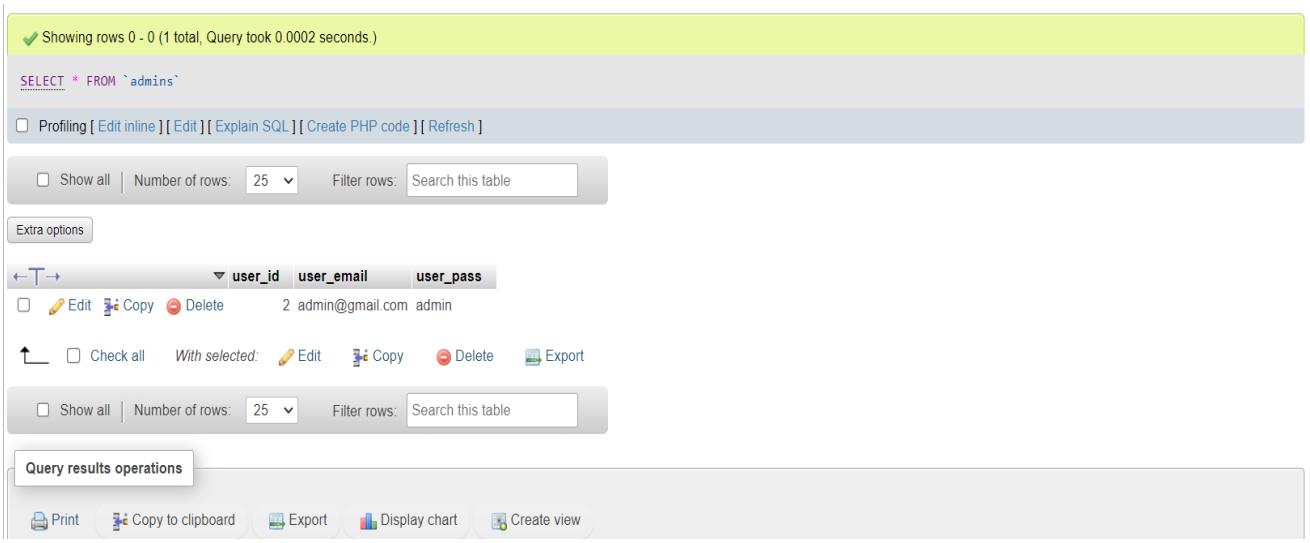
The backend has 3 Databases namely :

1. admins
2. cart
3. categories
4. customers
5. employees
6. packages
7. types

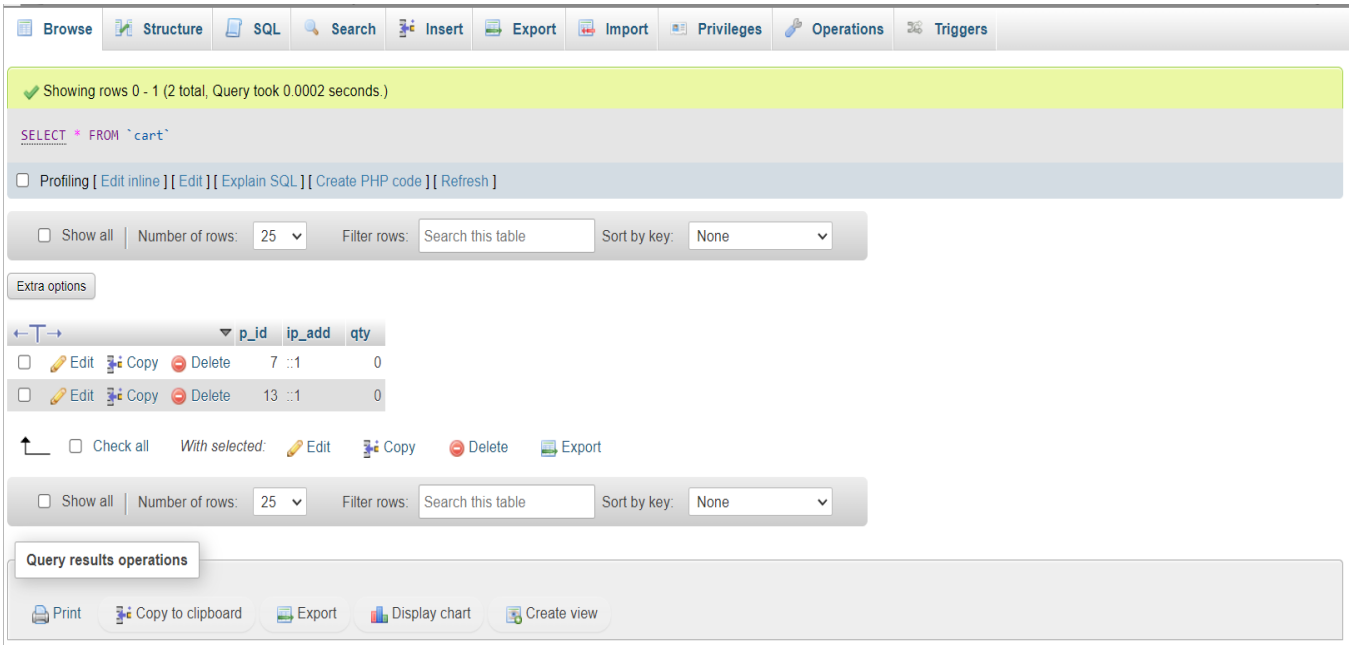
The entries given in the Main page are stored here in respective databases, which can be viewed and deleted.



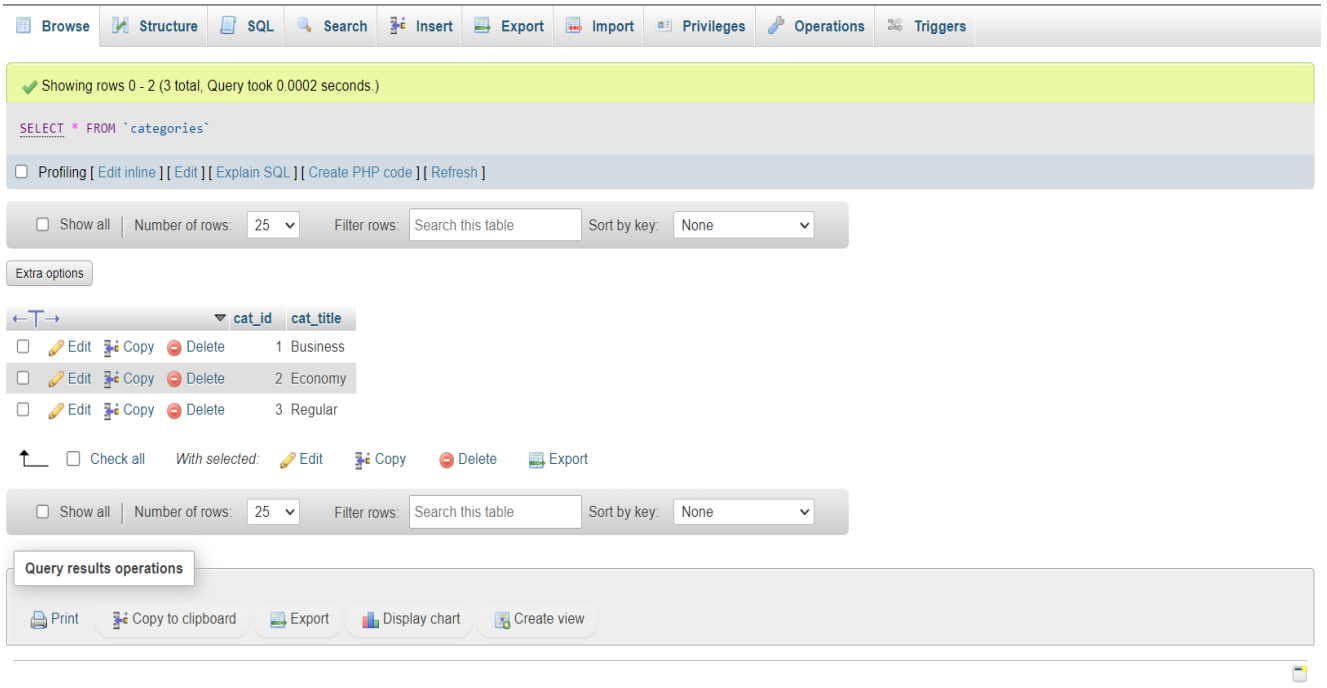
1.Admin



2.cart



3. Categories



CODING

Homepage

```php
<?php
session_start();
include("functions/functions.php");
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Travel Bird : Home</title>
    <link rel="stylesheet" href="styles/style.css" media="all">
    <style>
        .adminbtn {
            background-color: #4CAF50; /* Green */
            border: none;
            color: white;
            padding: 1px 2px;
            text-align: center;
            text-decoration: none;
            display: inline-block;
            font-size: 14px;
            cursor: pointer;
            -webkit-transition-duration: 0.4s; /* Safari */
            transition-duration: 0.4s;
            float: right;
            margin-top: 12px;
            margin-left: 2px;
        }

        .adminbtn:hover {
            box-shadow: 0 12px 16px 0 rgba(0, 0, 0, 0.24), 0 17px 50px 0 rgba(0, 0, 0, 0.19);
        }
    </style>
</head>
```

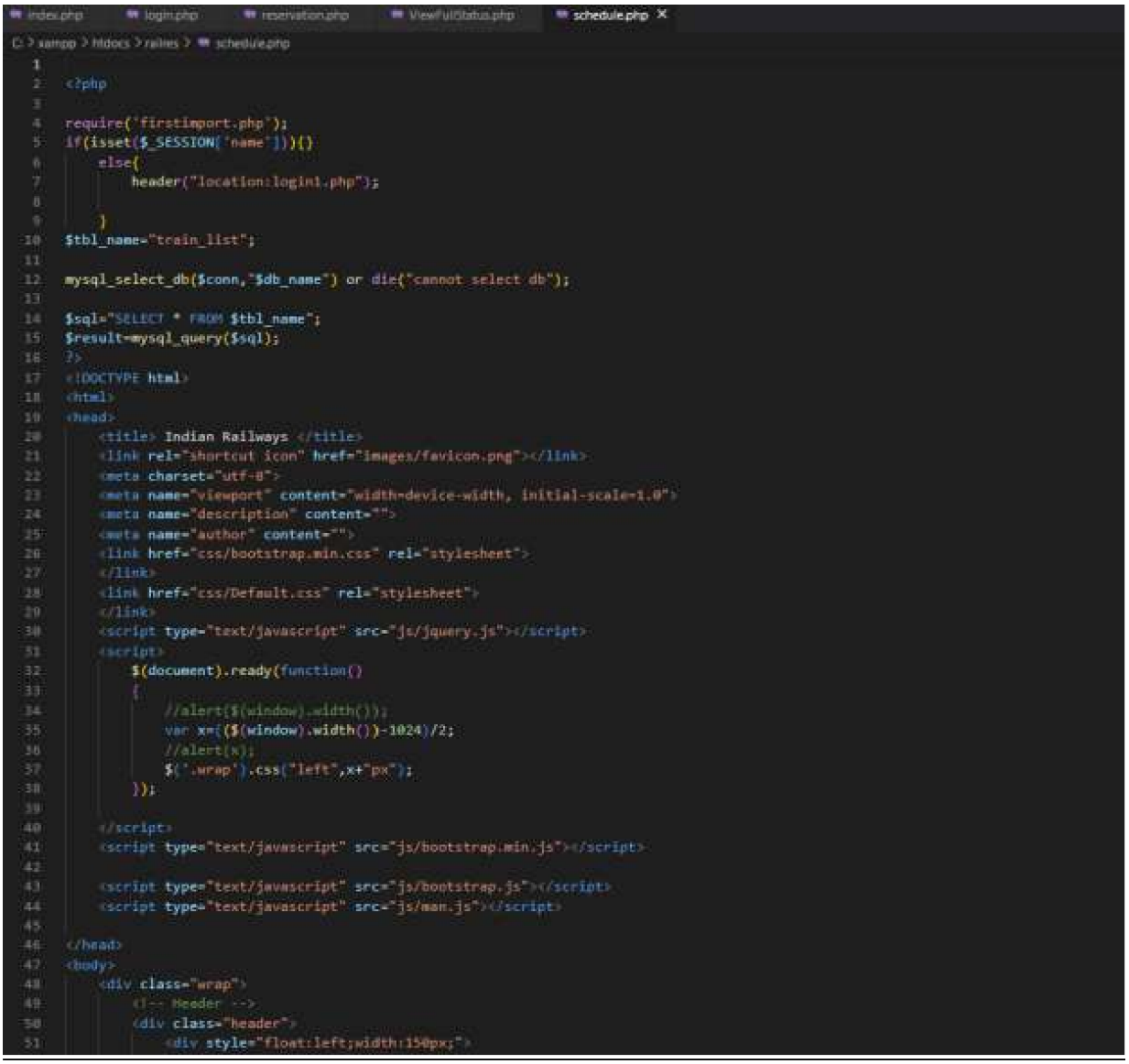
LOGIN PAGE

```php
include("includes/db.php");
global $con;
if (isset($_POST['register'])) {
    $ip = getIp();
    $c_name = $_POST['c_name'];
    $c_email = $_POST['c_email'];
    $c_pass = $_POST['c_pass'];
    $c_passport = $_POST['c_passport'];
    $c_image = $_FILES['c_image']['name'];
    $c_image_tmp = $_FILES['c_image']['tmp_name'];
    $c_country = $_POST['c_country'];
    $c_city = $_POST['c_city'];
    $c_contact = $_POST['c_contact'];
    $c_address = $_POST['c_address'];

    // image will upload there
    move_uploaded_file($c_image_tmp, "customer/customer_images/$c_image");

    $insert_c = "INSERT INTO customers (customer_ip,customer_name,customer_email,customer_pass,c_passport,customer_country,customer_city,customer_contact,customer_a

    $run_c = mysqli_query($con, $insert_c);

    $sel_cart = "SELECT * FROM cart WHERE ip_add='$ip'";

    $run_cart = mysqli_query($con, $sel_cart);

    $check_cart = mysqli_num_rows($run_cart);

    if ($check_cart == 0) {
        $_SESSION['customer_email'] = $c_email;
        echo "<script>alert('Account has been created successfully. Thanks!')</script>";
        echo "<script>window.open('customer/my_account.php','_self')</script>";
```

Checkout page

```php
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Travel Bird : Checkout</title>
    <link rel="stylesheet" href="styles/style.css" media="all">
</head>
<body>
    <!--Main container starts here-->
    <div class="main_wrapper">
        <!--Header starts here-->
        <?php include 'includes/header.php'; ?>
        <!--Header ends here-->
        <!--Navbar starts here-->
        <?php include 'includes/navbar.php'; ?>
        <!--Navbar ends here-->
        <!--Content starts here-->
        <div class="content_wrapper">
            <!--left-sidebar starts-->
            <?php include "includes/left-sidebar.php"; ?>
            <!--left-sidebar ends-->
            <div id="content_area">
                <?php cart(); ?>
                <div id="shopping_cart">
                    <span style="float: right;font-size: 18px;padding: 5px;line-height: 40px;">
                        <?php
                        if (isset($_SESSION['customer_email'])) {
                            echo "<b>Welcome: </b>" . $_SESSION['customer_email'] . "<b style='color: yellow;'> Your</b>";
                        } else {
                            echo "<b>Welcome Guest:</b>";
                        }
```

Checkout page



RESULTS

The results of implementing a Travel Management System (TMS) can be significant for both individuals and organizations. Here are some possible results of using a TMS:

- Streamlined travel booking process: A TMS can simplify the travel booking process by providing a single platform for booking flights, hotels, rental cars, and other travel-related services.
- Reduced travel costs: A TMS can help organizations and individuals save money on travel expenses through negotiated deals, discounts, and tracking of expenses.
- Improved traveler experience: A TMS can provide real-time updates on travel-related information, such as flight delays or gate changes, reducing confusion and disruption and improving the overall travel experience.
- Increased compliance: A TMS can ensure compliance with travel policies and regulations, providing greater control and visibility over travel arrangements.
- Enhanced reporting and analytics: A TMS can provide reporting and analytics on travel-related data, such as expenses, itinerary changes, and booking trends, allowing organizations to identify areas for improvement and cost savings.

CONCLUSION

In conclusion, a Travel Management System (TMS) can be a valuable tool for both individuals and organizations to manage their travel arrangements more efficiently and effectively. By providing a centralized platform for booking travel services, managing itineraries, tracking expenses, and communicating updates, a TMS can help users save time and money, while also improving the overall travel experience.

The use of TMS can result in streamlining the travel booking process, reducing travel costs, improving the traveler experience, increasing compliance, enhancing reporting and analytics, and better communication. However, the specific results will depend on the features and capabilities of the TMS, as well as the needs and requirements of the users.

Overall, the adoption of TMS can help individuals and organizations optimize their travel programs, reduce costs, and improve traveler satisfaction. As travel continues to evolve and become more complex, the use of TMS is likely to become even more important in managing and optimizing travel arrangements.

FUTURE ENHANCEMENT

1. Integration with emerging technologies: TMS can be integrated with emerging technologies such as Artificial Intelligence (AI), Virtual Reality (VR), and Augmented Reality (AR) to provide personalized recommendations and immersive experiences for travelers.
2. Mobile-first approach: Mobile is becoming the preferred mode of accessing travel-related information. Hence, a mobile-first approach can make TMS more accessible and user-friendly.
3. Incorporation of blockchain technology: Blockchain technology can be used to create a decentralized, secure, and transparent platform for managing travel-related transactions and data.

REFERENCES

[1] http://php.net/

[2] https://www.http://en.wikipedia.org/wiki/PHP

[3] https://www.w3shools.com