A

Project

On

"TRAVEL BOOKING MANAGEMENT SYSTEM"

Submitted to
Prof. Dr. Hussain Syed

VELLOREINSTITUTEOF TECHNOLOGY, ANDHRA PRADESH(UNIVERSITY)

Submittedby
ERABELLI ROHITH.(23MIS7220)

Prof. Dr . Hussain Syed
VELLORE INSTITUTE OF TECHNOLOGY, ANDHRA PRADESH (UNIVERSITY)

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This is to certify that ERABELLI ROHITH has completed their project on the topic of "TRAVEL BOOKING MANAGEMENT SYSTEM" prescribed by Vellore Institute of Technology , Andhra Pradesh(University) for Integrated MTech (Software Design andArchitecture)- Semester-IV.

Date:02-01-2025

Place:Andhra Pradesh

ACKNOWLEDGEMENT

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We also wish to express our sincere thanks to our university management for providing us wide range of opportunities,facilities and inspiration to gather professional knowledge and material without which this project could not have been completed.

1) Erabelli Rohith

Date:02-01-2025

Place:Andhra Pradesh

<u>DECLARATION</u>

I ERABELLI ROHITH here by honestly declare that the work entitled**"TRAVELBOOKINGMANAGEMENTSYSTEM"**submitted by us at Vellore Institute of Technology,Andhra Pradesh(University) in partial fulfillment of requirement of requirement for the award of Integrated MTech(Software Design and Architecture) degree by VIT-AP University has not been submitted elsewhere for the award of any degree, during the academic year session 2024-2025.

The project has been developed and completed by us independently under the supervision of the subject teacher and project guide.

1) ERABELLI ROHITH

Date:02-01-2025

Place:Andhra Pradesh

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<u>INTRODUCTION</u>

The **Travel Booking System** has been developed to overcome the limitationsandinefficienciesassociatedwithtraditional,manual travel booking processes. This software solution is intended to reduce the complexities and work load involved in booking travel-related services such as flights, hotels, tours, transportation, and holiday packages. It enables both customers and travel agents to perform their tasks in a smooth, effective, and user-friendly manner.

The system is designed with a focus on minimizing errors,simplifying the user interface,and streamlining data entry.Proper validation checks and real-time error messages ensure that incorrect data entries are avoided,enhancingtheaccuracyandreliabilityofthebookingprocess. No prior technical knowledge is required to use the system, making it accessible even to non-technical users. This confirms that the Travel Booking System is highly intuitive and user-centric.

The Travel Booking System leads to an efficient, secure, and reliable platformthatallowsuserstomanagetheirtravelplanswithconfidence and ease.It automates core functions such as ticket generation,itinerary planning, fare comparison, availability checking, customer record management, and payment processing. By automating these tasks, users and administrators can focus on more critical activities, such as customer engagement and service improvement, rather than being bogged down by manual processes.

Intoday'sfast-pacedworld,   everytravelagency—bigorsmall—faces challengesinmanaginglargevolumesofcustomerdata,booking

requests,payment-follow-ups,and vend or coordination.This system is tailored to meet the dynamic and varying needs of customers, administrators, and third-party service providers. It can handle real-time booking requests, cancellations, refunds, and customer support queries, all within a single, integrated platform.

With built-in remote access capabilities, the Travel Booking System allowstravelagentsandcustomerstomanagebookingsonthego,from any location and at any time. This is especially useful for corporate clients and frequent travellers who require flexibility and real-time updates.

KeyFeaturesoftheTravelBookingSysteminclude:

- UserRegistration&ProfileManagement

- Flight,Hotel,and Tour Package Search&Booking

- Dynamic Pricing&Fare Comparison

- Booking History&Itinerary Generation

- SecurePaymentGatewayIntegration

- Email&SMSNotifications

- AdminDashboardforBusinessMonitoring

- CustomerSupportTicketSystem

- VendorandSupplierManagement

These systems will ultimately allow you to better manage resources.

OBJECTIVES

The main objective of the Project on Travel Booking System is to manage the details of Customers, Bookings, Payments, Travel Packages, and Agents. It handles all the essential information related to travellers, trip details, transport modes, accommodations, and schedules. The system is primarily developed for administrative use, ensuring only authorized personnel can manage core operations. The purpose of this project is to develop a web-based platform that reduces manual effort in handling booking details, customer records, and itinerary plans.

1. The objective of the travel booking system is to streamline travel services with increased efficiency and reduced costs. The fully automated nature of the system minimizes delays and improves operational productivity.

2. The system automates key functions such as trip planning, transport reservation,hotel booking,itinerary creation,and in voice generation. This eliminates the need for repetitive manual tasks and reduces the scope for human errors.

3. The travel booking system helps lower operational costs by reducing paperwork and manual intervention. It minimizes the reliance on physical booking offices and manpower, leading to significant cost savings.

4. Thesystemsavestimeforbothtravellersandtravelagents.Customers can easily search, compare, and book travel packages online, while agents can manage client data and bookings with minimal effort.

5. Managing the database—adding, editing, or removing bookings, users,or packages—is simple and intuitive.Travel agents can quickly update package information or cancel reservations when needed.

6. Verifying trip details,checking real-time availability of services ,and generating reports can be done quickly. The automated processes significantly reduce turnaround times compared to manual handling.

7. The system categorizes trips and services based on parameters like destination, duration, cost, and type (leisure, business, adventure), making it easy for users to find suitable travel options quickly.

8. Travelers need accurate and timely information. A well-organized travel booking system ensures the delivery of authentic, updated details regarding trips, prices, and travel conditions.

9. In this mobile-driven era, a web-based and mobile-friendly travel booking system allows users to plan and manage their trips anytime, anywhere using smartphones or tablets.

10. The main objective of the Travel Booking System is to effectively manage user data along with bookings, payments, and package information, ensuring seamless travel planning.

11. It also manages all associated information like agent details, customer addresses, trip histories, and feedback to offer a personalized travel experience for each user.

PRELIMINARY SYSTEMANALYSIS

Preliminary Investigation:

The first step in the System Development Life Cycle (SDLC) is the identification of the need. This arises from user requests to improve, change, or enhance an existing system. Since such requests are frequent,a standard procedure must be followed to evaluate them.The initial investigation helps address these requests by analyzing the current situation.

In this process, the development team visits or communicates with the end users (travel agents, administrators, and customers) and studies their workflow. They investigate the possibility of automating and streamlining travel bookings using a software-based solution. By the end of the preliminary investigation, a document is created that includes various recommendations based on the user's needs and current operational issues.

PresentSysteminUse:

The present system primarily relies on manual or partially digital processes for booking flights, hotels, or travel packages. Users often need to contact travel agencies in person or over the phone to make reservations. Some systems use simple forms or outdated software to storebasiccustomerandtraveldetails.Informationsuchasdestination, travel dates, flight details, and payment are entered manually.

Userregistrationmayormaynotberequiredincurrentsystems,andin most cases, users do not have dedicated accounts to manage or track their bookings independently.

FlawsinPresentSystem:

Although the current system fulfills some basic travel booking functions, it still faces a few key limitations:

- The **user interface is not very intuitive**, which can make navigation difficult for new users.

- There is **no real-time update mechanism**, which means availability for flights or hotels may not always reflect current status.

- **Users have limited control** over their bookings, such as managing or canceling reservations independently.

These issues indicate that there is room for improvement through a modern, user-friendly,and fully integrated travel booking application.

NeedforNewSystem:

Thecurrenttravelbookingsystemisnotfullycompatiblewithmodern user expectations and issome what complicated to use.The newsystem is being designed to offer a more **user-friendly interface** and **streamlined functionality** for both customers and administrators.

With the new system, **admins can easily access and manage all booking details**, including customer information, booking history, paymentstatus,andtravelpreferences.Italsoincludesfeaturessuchas **user contact details**, **real-time booking confirmation**, **automated itinerary generation**, and **notifications for cancellations or delays**.

Themainobjectiveofthenewsystemistoprovide**improvedfacilities** that make the travel planning process faster, more reliable, and more convenientforusers.Itaddressesthelimitationsoftheexistingsystem by introducing better data management, enhanced security, and easier access from anywhere through online login.

FEASIBILITYSTUDY

Feasibility Study

A feasibility study for a system determines whether it is practically possible to develop and implement the proposed system. It also evaluates the **benefits** and **impact** of introducing a new system into an existing environment. A feasibility study is an important step in analyzing whether a project can be successfully completed by examining factors such as **economic**, **behavioral**, **technical**, and **operational** feasibility.

Project managers and stakeholders use feasibility studies to weigh potential positive outcomes against risks before committing significant time and resources. The objective is not only to identify solutions to current challenges but also to assess the **scope, usability, and sustainability** of the solution and to choose the best approach moving forward.

- ## TechnicalFeasibility:

Technical feasibility involves analyzing whether the available technology is capable of supporting the system's requirements. For the **Travel Booking System**, this means ensuring that web technologies, databases, APIs for real-time travel information, and payment gateways can be integrated effectively.

The proposed system is being developed using modern web development tools and frameworks, such as **HTML, CSS, JavaScript (frontend)**, and **PHP/MySQL or Node.js/MongoDB (backend)**. These technologies are widely supported and can be deployed across a range of devices and platforms. The system will be compatible with modern browsers and mobile devices, ensuring broad accessibility.

- ## BehavioralFeasibility:

Behavioral feasibility assesses how users will react to the introduction of a new system. In many organizations, resistance to change is

common, especially when shifting from a manual or outdated system to a more advanced and automated one.

In the case of the Travel Booking System, the change is expected to be welcomed by most users, as it simplifies the process of planning and managing travel. However, proper **training and onboarding** may be necessary for travel agents and administrators who are not familiar with digital tools. The goal is to ensure that the system is user-friendly enough to encourage **quick adoption** and positive user feedback.

- ## **OperationalFeasibility:**

Operational feasibility evaluates how well the new system will function within the existing business environment. For the Travel Booking System, this means analyzing whether the system can seamlessly integrate into the current travel agency operations or online platform models.

The new system aims to improve day-to-day operations by automating bookings, generating itineraries, handling payments, and managing user accounts. It is designed to **enhance efficiency** without disrupting core business functions. The system will also be scalable, so additional features or services (such as tour packages or real-time customer support) can be added in the future without major structural changes.

PROJECT CATEGORY

ProjectCategory

The category of the project is a **web-based application** named **"Library Management System"**. The application interface such as the login page and dashboard are designed using **HTML** and **CSS**, enhanced by **JavaScript** for interactivity. For backend connectivity, **PHP** is used to connect with the **MySQL** database to manage data operations efficiently.

Programming Languages and Database Connectivity Used in the Project:

HTML(HyperTextMarkupLanguage):

HTMListhestandardmarkuplanguageusedtocreatethestructureand contentofwebpages.Itdefineselementssuchasheadings,paragraphs, forms,buttons,andimages.HTMListhebackboneofanywebsiteand is used to organize the layout and textual information on the web.

In the Travel Booking System, HTML is used to design essential components such as:

- Userloginandregistrationforms
- Bookingformsforflights,hotels,andtourpackages
- Traveldetails,userdashboards,andconfirmationpages

CSS(CascadingStyleSheets):

CSS is used to style and visually enhance the web pages created with HTML. It allows for customizing colors, layouts, fonts, animations, and responsiveness, making the web application aesthetically appealing and easy to use across different devices (desktop, tablet, mobile).

Inthisproject,CSSisutilizedto:

- Createavisuallyappealingandintuitiveuserinterface
- EnsuremobileresponsivenessusingFlexboxandmediaqueries

- Stylenavigationbars,buttons,modals,andconfirmationpopups

JavaScript:

JavaScriptisahigh-level,interpretedprogramminglanguagethatadds interactivity and dynamic behavior to web pages. It is essential for creating real-time features such as form validation, live search, and interactive booking steps.

IntheTravelBookingSystem,JavaScriptisresponsiblefor:

- Validatinguserinputinloginandbookingforms
- Dynamicallyupdatingavailablebookingoptions
- Handlingdateselections,dropdowns,andconfirmations
- Improvinguserexperiencewithreal-timefeedbackanderror messages

PHP(Hypertext Preprocessor):

- PHP is a widely-used open-source server-side scripting language designed for web development. In this project, PHP handlesallbackendoperationsincludingdatasubmission,user authentication, session management, and communication with the MySQL database. It processes user inputs from HTML forms and performs database operations like insert, update, delete, and retrieve. PHP is embedded within HTML and executed on the server, making it a powerful tool for building dynamic and data-driven websites.
- PHP supports a wide range of databases but is most commonly used with **MySQL**. It is platform-independent, secure, and supported by nearly all hosting services. PHP is constantly updated,well-documented,andhasalargecommunity,making it an excellent choice for web applications.

MySQL

MySQL is a Relational Database Management System (RDBMS) developed by Oracle that is based on Structured Query Language (SQL). MySQL is one of the most recognizable technologies in the modernbigdataecosystem.Oftencalledthemostpopulardatabaseand currentlyenjoyingwidespread,effectiveuseregardlessofindustry,it's clear that anyone involved with enterprise data or general ITshould at least aim for a basic familiarity of MySQL. With MySQL, even those new to relational systems can immediately build fast, powerful, and secure data storage systems. MySQL's programmatic syntax and interfaces are also perfect gateways into the wide world of other popular query languages and structured data stores.

Adatabaseisastructuredcollectionofdata.Itmaybeanythingfroma simpletravellisttoabookingchartoraplacetoholdthevastamounts of information in a travel network. In particular, a relational database is a digital store collecting data and organizing it according to the relationalmodel.Inthismodel,tablesconsistofrowsandcolumns,and relationshipsbetweendataelementsallfollowastrictlogicalstructure. An RDBMS is simply the set of software tools used to actually implement, manage, and query such a database.

MySQL is integral to many of the most popular software stacks for building and maintaining everything from customer-facing travel web applications to powerful, data-driven B2B services. Its open-source nature,stability,andrichfeatureset,pairedwithongoingdevelopment andsupportfromOracle,havemeantthatinternet-criticalorganizations such as Facebook, Twitter, Wikipedia, and YouTube all employ MySQLbackends. Likewise, in our travel booking system, MySQLis used to store user registration details, travel bookings, transaction records, and destination data in a reliable and organized format.

SOFTWARE ANDHARD WARE REQUIREMENT SPECIFICATION

Hardware

Hardware is a term that refers to all the physical parts that make up a computer.Theinternalhardwaredevicesthatmakeupthecomputerare essentialforthesystemtofunction.Variousdeviceswhichareessential to form hardware are called components.

Following arethe hardwarespecifications required to develop and run this Travel Booking System project:

1. Computercomponentslike**Monitor,Keyboard,Mouse,CPU**.
2. **Minimum 1 GB RAM** for smooth working of the web application.
3. **250GBHardDiskormore**,with**CDROMDrive**(optional).

Software

Computer software, or simply software, is a collection of data or computer instructions that tell the computer how to work. This is in contrast to physical hardware, from which the system is built and actually performs the work.

Thesoftwaretoolsusedforthe**TravelBookingSystem**are:

- **FrontEnd**–HTML,CSS,JavaScript
- **BackEnd**–MySQLWorkbench(fordatabase)
- **TextEditor**–VSCodeEditor(forwritingandeditingcode)
- **WebBrowser**–GoogleChrome/Firefox(fortestingand running the application)
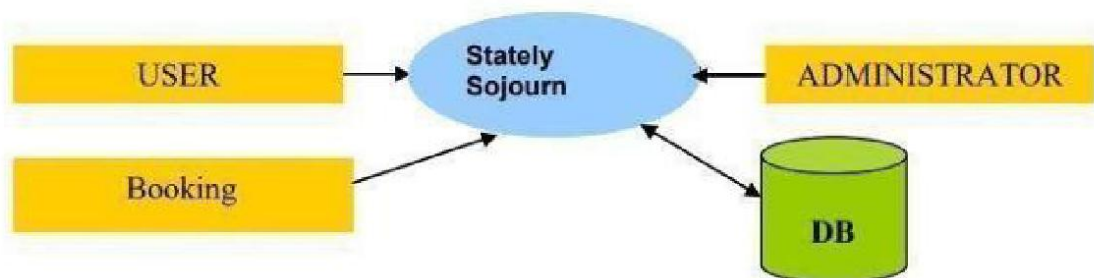
<u>OperatingSystem</u>

- **Windows10**

- **UbuntuLinux**

Bothoperatingsystemsarecompatibleandcanbeusedfordeveloping and running this web-based Travel Booking System.

DETAILED SYSTEMANALYSIS

DATAFLOWDIAGRAM

DATASTRUCTURESANDTABLES

1) UserDetails:

phpMyAdmin is a free software tool written in PHP, intended to handletheadministrationofMySQLinwhichtheAdministratorcan manage the user Registration details.

	id	first_name	last_name	phone_number
Edit Copy Delete	1	yash	reddy	7416064069
Edit Copy Delete	15	Bhanu	Prakash	7013660475
Edit Copy Delete	17	kowshik	tanikonda	9502395640
Edit Copy Delete	18	senthil	aneesh	7702509175
Edit Copy Delete	21	venkat	sai	9032803696
Edit Copy Delete	22	xyz	xyz	1234567890
Edit Copy Delete	23	RAVI	BOKAM	9948683410
Edit Copy Delete	24	vishnu	g	1234567890
Edit Copy Delete	25	abcd	xyz	9090909090
Edit Copy Delete	26	christy	christy	08247801309
Edit Copy Delete	27	ram	krishna	08247801309
Edit Copy Delete	28	bhanu	prakash	9032803696

| email	travel_date	gender	region	password
yashwanth.23mis7062@vitapstudent.ac.in	2005-04-28	M	KURNOOL	$2y$10$FicELMbAwi.iXUBq0B4IgOYA5G/x
bhanuprakash1014@gmail.com	2024-10-25	M	VISHAKAPATNAM	$2y$10$e0z67PaDkj8.3jLkqXhy4OuZF/eC6
kowshiktanikonda@gmail.com	2024-10-26	M	VISHAKAPATNAM	$2y$10$ycAeekGWkzmRWSn2D/gkhuW2c
svaneeshsenthil@gmail.com	2024-11-15	M	VISHAKAPATNAM	$2y$10$Bzy6ImK7gvVQr2Pqs2DfeO0JfKzl
venkatsaibokam@gmail.com	2024-11-13	M	HYDERABAD	$2y$10$YCsxGC5YcavdY.EFtUSdGu7K6C
xyz@gmail.com	2024-11-15	M	VISHAKAPATNAM	$2y$10$WLiDg2opdBV2eqjh9R/WHug8T26
ravibokam@gmail.com	2024-12-06	M	VISHAKAPATNAM	$2y$10$i0XThggX1k9hSITSMAkUCe8kOu
vishnug1705@gmail.com	2025-02-13	M	VIJAYAWADA	$2y$10$XmuR5jd0uEuWA8ZYu1McXebUj\
abcd@gmail.com	2025-03-01	M	VISHAKAPATNAM	$2y$10$C4/THWdAddHsWgVYjqvyaOPBw
christy@gmail.com	2025-03-21	M	VISHAKAPATNAM	$2y$10$nnTwMkSIAQ9zHNgqFUr.NOxBau
rk@gmail.com	2025-03-19	M	HYDERABAD	$2y$10$xy/U3uOV/rRkJCSr7KbD..kEIqehN
bhanu@gmail.com	2025-04-24	M	VISHAKAPATNAM	$2y$10$Z.21nnwcKLqDDWsF2OPRHOvEk

2) PaymentDetails:

Inthisuserpaymentdetailsarevisible.

					id	fullname	ticket_name	ticket_price	payment_date	transport_mode
	New										
	bookings										
	payments										

					id	fullname	ticket_name	ticket_price	payment_date	transport_mode
☐	Edit	Copy	Delete	22	VENKAT	Air India	5346	2025-03-13 22:46:36	flight
☐	Edit	Copy	Delete	23	VENKAT	Air India	5346	2025-03-13 22:48:39	bus
☐	Edit	Copy	Delete	24	VENKAT	Luxury SUV	700	2025-03-13 22:50:06	cab
☐	Edit	Copy	Delete	29	VENKAT	Air India	₹5346	2025-03-15 01:41:59	flight
☐	Edit	Copy	Delete	30	VENKAT	Air India	₹5346	2025-03-15 01:52:58	flight
☐	Edit	Copy	Delete	31	VENKAT	Express Train 101	₹550	2025-03-15 01:53:39	flight
☐	Edit	Copy	Delete	32	VENKAT	Super Luxury	443	2025-03-15 01:54:44	bus
☐	Edit	Copy	Delete	34	VENKAT	Morning Express	₹570	2025-03-15 01:57:31	train
☐	Edit	Copy	Delete	37	VENKAT	Air India	₹5346	2025-03-16 00:50:43	flight
☐	Edit	Copy	Delete	38	VENKAT	Air India	₹5346	2025-03-16 00:52:00	bus
☐	Edit	Copy	Delete	39	VENKAT	Air India	₹5346	2025-03-17 19:44:30	flight
☐	Edit	Copy	Delete	40	VENKAT	Morning Express	₹570	2025-04-17 12:11:45	train
☐	Edit	Copy	Delete	41	VENKAT	Air India	₹5346	2025-04-17 12:16:15	flight
☐	Edit	Copy	Delete	42	VENKAT	Air India	₹5346	2025-04-17 12:18:35	flight
☐	Edit	Copy	Delete	43	VENKAT	Air India	₹5346	2025-04-17 12:20:13	flight

ENTITYRELATIONSHIPDIAGRAM

The Travel Booking System includes five key entities. The **User** entitystorescustomer detailslikenameand contactinfo. **Hotel** holds informationaboutavailableaccommodations,suchasname,location, and room types. **Flight** contains data on scheduled flights including departure, arrival, and pricing. The **Booking** entity connects users to hotels and flights, recording booking dates and total cost. Lastly, **Activity** represents optional experiences (like tours or events) that users can add to their trip, enhancing their travel package.
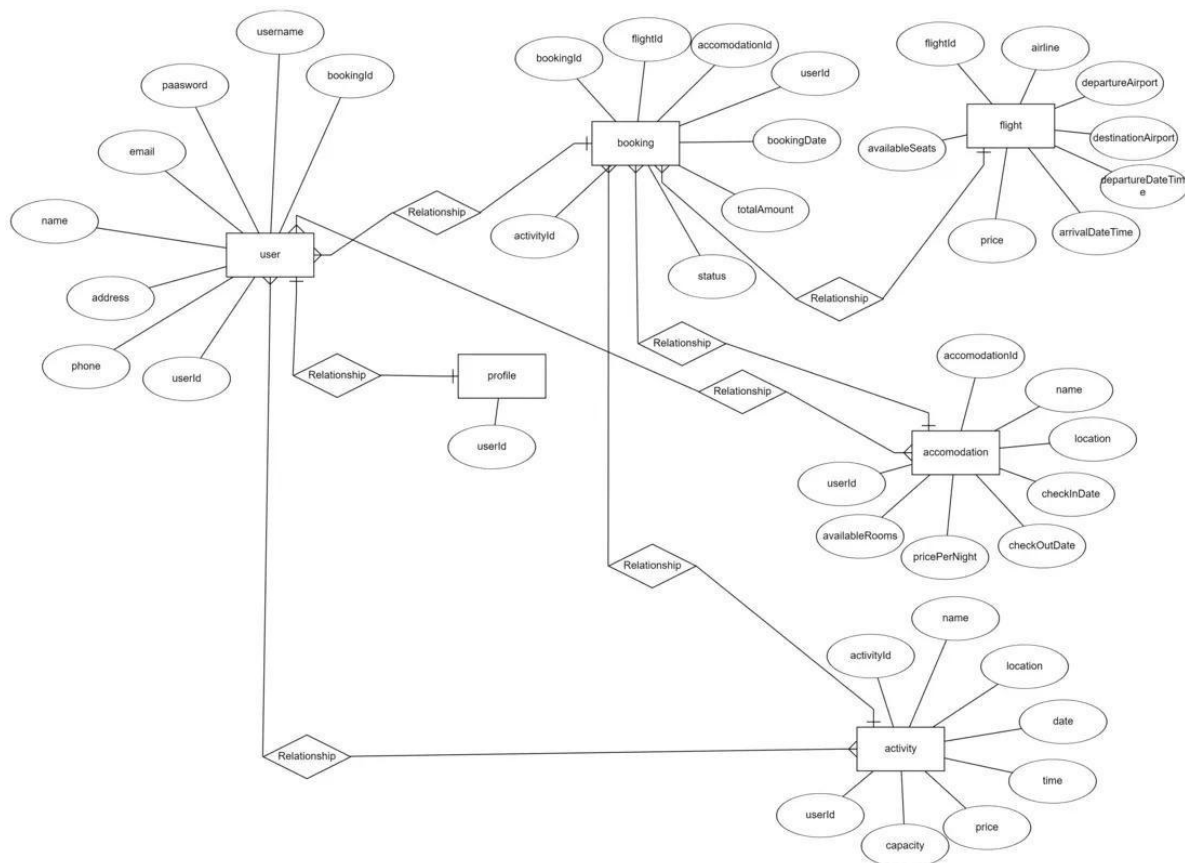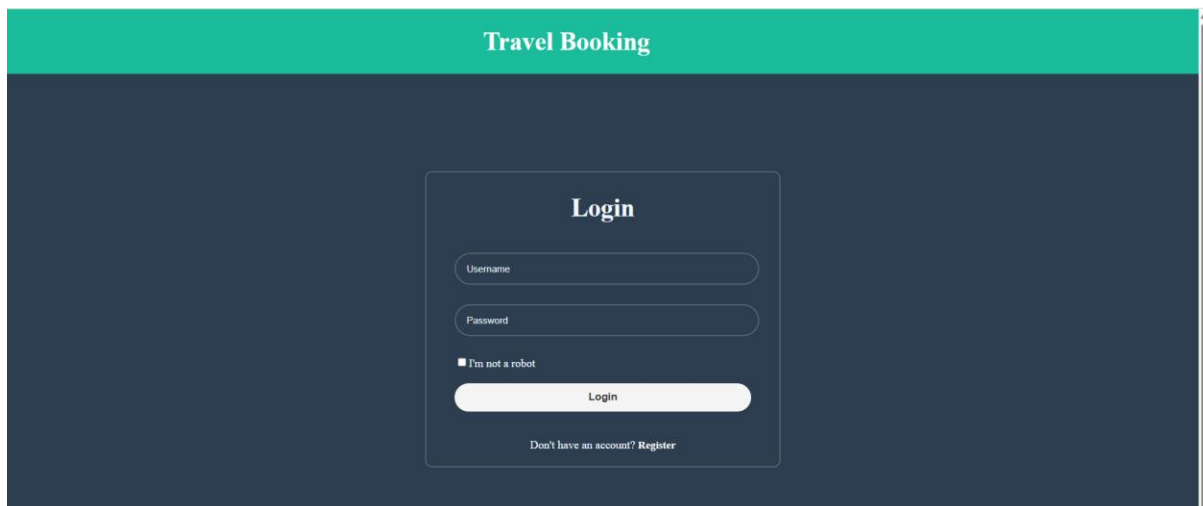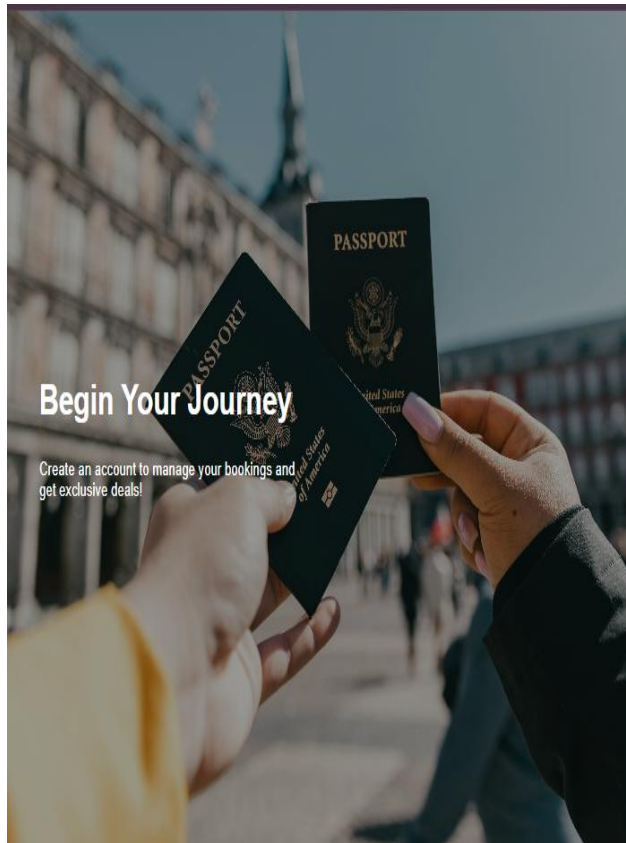
SYSTEMDESIGN

Form Design:

1) Admin:

This is Travel Booking System Login Form.You have to enter the RegisteredUsernameandPasswordonit.Thereisacheckboxnamed I'm not a robot and register option for new User.

2) Register:

This is the New User Registration Form the Travel Booking System. TheUserneedsaUsernameandPasswordtologintothesystem,and to create it, the user has to first register from here.
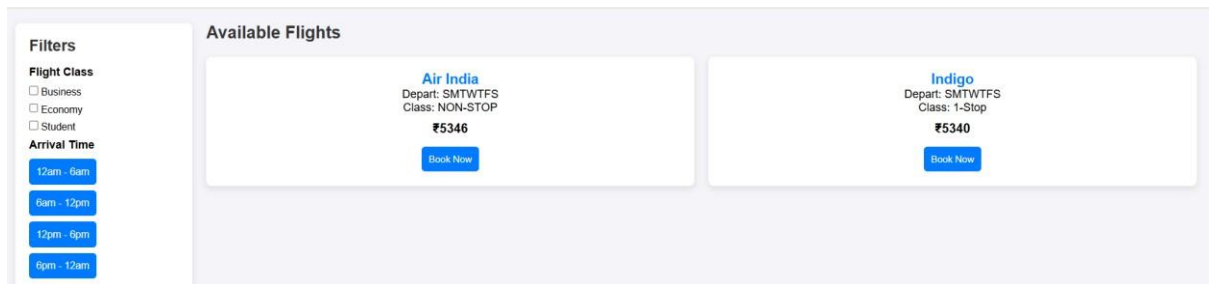
3) HomePage:

ThisisthehomepageforTravelBookingSystemwhereitconsistsof five different modules Flights, Cabs, Hotels, Trains and Buses.
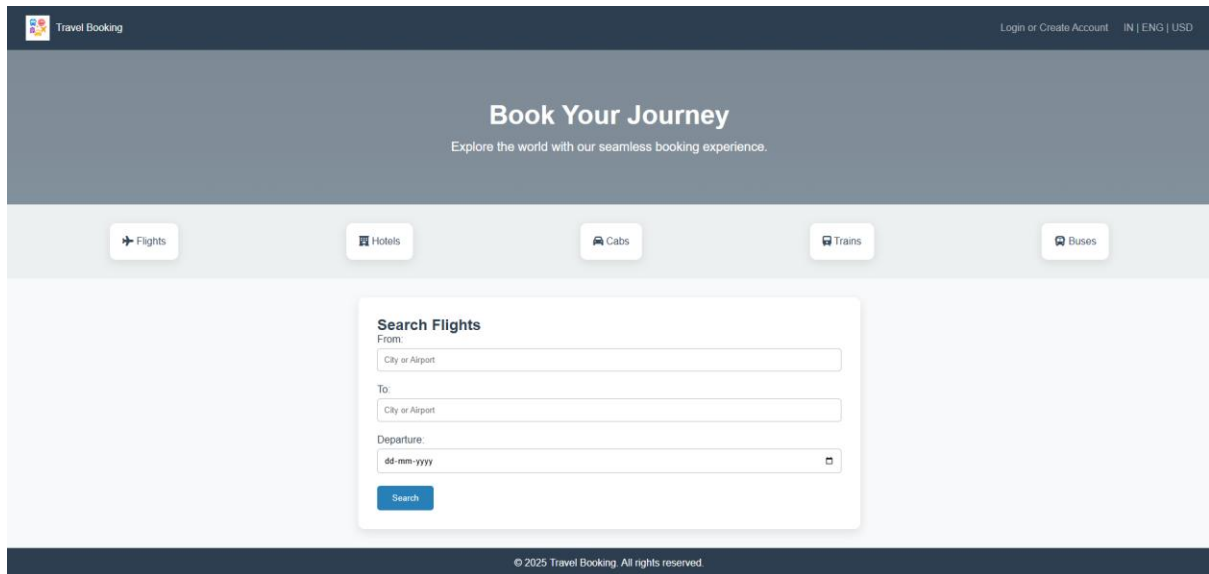
4) Booking:

ThisisthepagewhereUsercanseetheavailabilitydetailsaccording to the places they search and they can also apply the filters.

5) Payment:

In this page user can see what they have selected and they need to enterconfirmation,card,cvv,validitydateandcaptchaforsuccessful booking .

Complete Your Booking

Booking Summary

Ticket Type: Indigo

Price: $5,340.00

Personal Information

Full Name

Email Address

Payment Details

Card Number

1234 5678 9012 3456

Expiry Date   CVV

MM/YY   123

53D0V5 ↻

Enter CAPTCHA

Pay Now

6) TicketGeneration:

IntheTravelBookingSystem,ticketgenerationbeginsautomatically once a booking is confirmed by the user. The system generates a digital ticket that includes details like the user's name, booking ID, travel dates, destination, and associated hotel or flight information. Each ticket contains a unique QR code that securely encodes the bookingdata,allowingforquickandcontactlessverificationatcheck- in points.

Travel Ticket

Passenger Name: Erabelli rohith

From: Mumbai, India (BOM)

To: Dubai, UAE (DXB)

Date: 2025-03-04

Ticket Type: Indigo

Seat Number: 12A

Ticket Number: TK-000000052

Price: $5,340.00

Thank you for your purchase! Please present this ticket at boarding.

Download / Print Ticket

Activate Windows
Go to Settings to activate Windows.
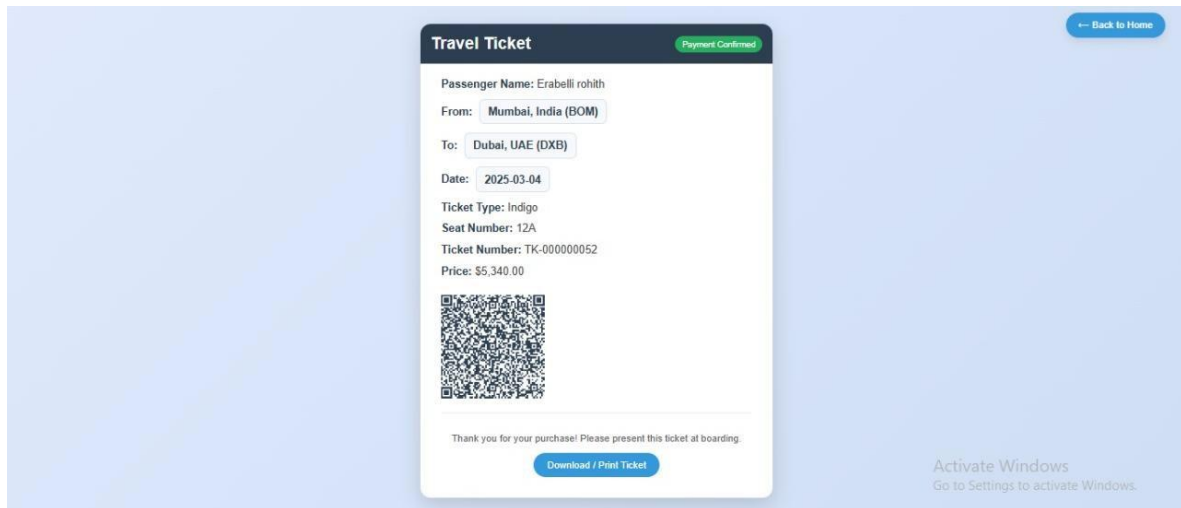
SOURCECODE

1)SERVERCONNECTION:

```php
<?php
//Databaseconnectionparameters
$servername="localhost";
$username="root";//DefaultforXAMPP/WAMP
$password="";       //DefaultpasswordisemptyforXAMPP/WAMP
$dbname="travel_booking";//Nameofyourdatabase


//Createconnection
$conn=mysqli_connect($servername,$username,$password,
$dbname);


//Checkconnection
if (!$conn) {
    die("Connectionfailed:".mysqli_connect_error());
}
?>
```

2) REGISTRATIONPAGE:

HTML :

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
```

```html
<metacharset="UTF-8">
<metaname="viewport"content="width=device-width,initial-scale=1.0">
<title>TravelBookingSystem</title>
<linkrel="stylesheet"href="r.css">
</head>
<body>
<formaction="process.php"method="POST">
<divclass="parent">
    <divid="title">
        <divid="conent"><b>TRAVELBOOKING SYSTEM</b></div>
    </div>
    <divclass="first_name">
        <divid="n">FirstName:<br></div>
        <inputtype="text"name="first_name"required>
    </div>
    <divclass="last_name">
        <divid="n">LastName:<br></div>
        <inputtype="text"name="last_name"required>
    </div>
    <divid="phone_number">
        <divid="n1">PhoneNumber:</div>
        <inputtype="tel"name="phone_number"required>
    </div>
    <divid="email">
        <divid="n2">EmailID:</div>
```

```html
        <inputtype="email"name="email"required>
    </div>
    <divid="date">
    <divid="travel_date">
        <divid="n">TravelDate:</div>
        <inputtype="date"name="travel_date"id="date1"required>
    </div>
    <divid="gender">
        Gender:
        M:<inputtype="radio"name="gender"value="M"required>
        F:<input type="radio" name="gender" value="F" required>
    </div>
    </div>
    <divid="region">
        <divid="n3"><b>Region:</b></div>
        <selectclass="drop"name="region"required>
            <optionvalue=""selected>SelectRegion</option>
            <optionvalue="HYDERABAD">HYDERABAD</option>
            <optionvalue="VIJAYAWADA">VIJAYAWADA</option>
            <option value="VISHAKAPATNAM">VISHAKAPATNAM</option>
            <optionvalue="KADAPA">KADAPA</option>
            <optionvalue="KURNOOL">KURNOOL</option>
            <optionvalue="NELLORE">NELLORE</option>
        </select>
    </div>
    <divid="password">
```

```html
        <divid="n3"><b>Password:</b></div>
        <inputtype="password"name="password"required>
      </div>
      <divid="confirm">
        <divid="n3"><b>ConfirmPassword:</b></div>
        <inputtype="password"name="confirm_password"required>
      </div>
      <divid="register">
        <inputtype="submit"value="Register">
      </div>
    </div>
    </form>
</body>
</html>
```

CSS:

```css
*{
   font-family:sans-serif;
}

.parent{
   height:630px;
   width:400px;
   position:relative;

   left:50%;
```

```css
    transform:translateX(-50%);
     border-radius: 10px ;
     box-shadow: 0px 0px 5px 1px gray;
   border: 2px solid rgb(138, 136, 136);
   display: flex;
   flex-direction:column;



}
#conent{ height:50p
   x; width: 80%;
    margin-left:10px;


    text-align:center;
    box-sizing:border-box;
    padding-top: 13.5px;
    border-radius: 25px 0px 25px 0px;
    border:1.9pxsolidrgb(134,134,134);
    box-shadow: 0px 0px 8pxgray;
}
#title{

    width:100%;
    height:56px;
```

```css
    margin-top:8px;

    display: flex;

    align-items: center;

    font-size: 20px;

    justify-content:center;



}
.parent>div{

    font-size: 16px;

    margin-top:15px;

    height: 47px;



}
#n,#n1,#n2,#n3{

    margin-left:13px;

    font-weight:bold;

}
.first_nameinput,#phone_numberinput,#emailinput,#password
input,#confirm input,.last_name input{

    width: 89%;

    height: 27px;

    margin-left:13px;

    outline: none;

    color: black;

    font-size: 17px;

    padding-left:7px;
```

```css
    border-radius:5px;
    border:1.9pxsolidrgb(32,32,32);
}
.first_name
    input:focus{ border:1.6pxs
    olidorange;
}
#phone_numberinput:focus{ b
    order:1.6pxsolidorange;
}
#emailinput:focus{
    border:1.6pxsolidorange;
}
#password
    input:focus{ border:1.6pxs
    olidorange;
}
#confirm
    input:focus{ border:1.6pxs
    olidorange;
}
.dropinput:focus{
    border:1.6pxsolidorange;
}
#travel_date{ displa
    y:flex;
    height:20px;
```

```css
}
#date{
    margin-top:10px;

    display:flex;
box-sizing:border-box;
padding-right: 9px;
align-items: center;}
/*#date>div{
    margin-right:20px;
} */
#travel_date>div{
    margin-left:25px;
}
#date1{
    width: 30%;
    height: 25px;
    margin-left:13px;
    border:1.9pxsolidrgb(32,32,32);
    border-radius: 5px;
}
#gender{
    margin-top:5px;
}
.drop{
    width:92%;
```

```css
    height: 31px;
    font-size:17px;
    border-radius:5px;
    border:1.9pxsolidrgb(32,32,32);
    margin-left: 13px;
    outline: none;
    margin-top:2px;
}
#register{ displa
    y:flex;
    align-items:center;
    margin-top: 23px;


}
#register
    input{ width: 91%;
    height: 34px;
    margin-left: 13px;
    border-radius:5px;
    border: none;
    background-color:rgb(28,28,206);
    color: white;
    font-size:17px;
    cursor: pointer;


}
```

```
/*#registerinput:hover{

   transform:  scale(1.1);

   transition: .9s;

}*/
```

2)LOGINPAGE:

HTML:

```
<!DOCTYPEhtml>

<htmllang="en">

<head>

   <metacharset="UTF-8">

   <metaname="viewport"content="width=device-width,initial-
scale=1.0">

   <title>LoginPage</title>

   <linkrel="stylesheet"href="login.css">

</head>

<body>

   <nav>

      <divclass="logo">TravelBooking</div>

   </nav>


   <!--Changedformactiontologin.php-->

   <formaction="login.php"method="post">

      <div>

         <h1>Login</h1>

         <br>
```

```html
        <inputtype="text"placeholder="Username"id="username"
name="username" required style="color: white;">

        <spanclass="error"id="usernameError"></span><!--Error message
placeholder -->

        <br><br>

        <inputtype="password"placeholder="Password"
id="password" name="password" required>

        <spanclass="error"id="passwordError"></span><!--Error message
placeholder -->

        <br><br>

        <inputtype="checkbox"name="remember_me">I'mnota
robot

        <br><br>

        <ahref="homepage.html"><inputtype="submit"
value="Login"id="submit"></a>

        <br><br>

        <p>Don'thaveanaccount?<ahref="register.html"
target="_blank">Register</a></p>

    </div>

  </form>

</body>

</html>
```

CSS:

```css
/*NavbarStyles*/

nav {

  display:flex;

  justify-content:center;
```

```css
    align-items:center;

    background-color:#1abc9c;/*Lightgreencolor*/

    padding: 20px 40px;

    position:fixed;/*Navbarstaysatthetop*/

    width: 100%;

    top:0;

    left:0;

    z-index:100;

}

nav .logo
    { color:white;

    font-size:36px;/*Increasedlogosize*/

    font-weight: bold;

    border:none;
}

body{
    display:flex;

    justify-content:center;

    align-items: center;

    min-height: 100vh;

    background-color:#2c3e50;
}
```

```css
#username{ heigh
  t:40px; width:
  98%;
  border-radius:40px;
  border: none;
  outline: none;
  color: white;
  padding-left:15px;
  /* color: white; */
  background:transparent;
  border:2pxsolidrgba(255,255,255,.2);
}
#password{ heigh
  t:40px; width:
  98%;
  border-radius:40px;
  border: none;
  padding-left: 15px;
  color: white; outline:
  none;
  background:transparent;
  border:2pxsolidrgba(255,255,255,.2);
}
#submit{ height:
  40px;
  width:100%;
```

```css
    border-radius: 40px;

    background-color:whitesmoke;

    border: none;

    outline: none;

    cursor:pointer;

    color: #333;

    font-weight:600;

    font-size: 15px;

}

div{

    width: 420px;

    background:transparent;

    border:2pxsolidrgba(255,255,255,.2); color:

    aliceblue;

    border-radius:10px;

    padding: 5px 40px;

}

h1{

    font-size: 36px;

    text-align:center;

}

::placeholder{ colo

    r:aliceblue;


}

p{
```

```css
    text-align: center;

    margin:20px015px;

}

pa{

    color:#fff;

    text-decoration:none;

    font-weight: 550;

    font-size: 15px;


}

a:hover{

    text-decoration:underline;

}

.error{

    color:red;/*Redcolorforerrormessages*/

    font-size:12px;/*Smallerfontsizeforerrormessages*/

    display: block; /* Ensure it occupies its own line */

    margin-top:-10px;/*Adjustspacingaboveerrormessage*/

}
```

PHP:

```php
<?php
//Includethedatabaseconnectionfile
include('server.php');


//Startthesessiontostoreuserdata
```

```php
session_start();

//Initializevariablesforerrormessages
$usernameError=$passwordError=$checkboxError="";

//Checkiftheformissubmitted
if($_SERVER["REQUEST_METHOD"]=="POST"){
    //Collectandsanitizeformdata
    $username=mysqli_real_escape_string($conn,
$_POST['username']);
    $password=$_POST['password'];
    $rememberMe=isset($_POST['remember_me']);//Checkifthe checkbox
is ticked

    //Checkiftheusername,password,andcheckboxarenotempty
    if(!empty($username)&&!empty($password)&&$rememberMe)
{
        //SQLquerytocheckiftheusernameexists
        $sql="SELECT*FROMbookingsWHERE
email='$username'";//Assumingemailisusedastheusername
        $result=mysqli_query($conn,$sql);

        if(mysqli_num_rows($result)>0){
            //Fetchtheuserdata
            $user=mysqli_fetch_assoc($result);

            //Verifythepassword
```

```php
        if(password_verify($password,$user['password'])){
            //Storeusernameinthesession
            $_SESSION['username']=$username;


            //Redirecttobookingpageaftersuccessfullogin header("Location:
            homepage.html");
            exit();
        }else{
            //Passwordisincorrect
            $passwordError="Incorrectpassword,pleasetryagain.";
        }
    }else{
        //Emailnotfound
        $usernameError="Emailnotfound.Pleaseregisterfirst.";
    }
}else{
    if(empty($username)){
        $usernameError="Pleaseenteryouremail.";
    }
    if(empty($password)){
        $passwordError="Pleaseenteryourpassword.";
    }
    if(!$rememberMe){
        $checkboxError="Youmustagreethatyou'renotarobot.";
    }
}
```

```php
    }

    //Closethedatabaseconnection
    mysqli_close($conn);
    ?>
```

```html
<!--HTMLforLoginForm-->
<!DOCTYPEhtml>
<htmllang="en">
<head>
   <metacharset="UTF-8">
   <metaname="viewport"content="width=device-width,initial-scale=1.0">
   <title>Login</title>
   <linkrel="stylesheet"href="login.css">
   <script>
      functionvalidateForm(){
         varcheckbox=document.getElementById("remember_me"); if
         (!checkbox.checked) {
            alert("Youmustagreethatyou'renotarobot."); return
            false; // Prevent form submission
         }
         returntrue;//Allowformsubmission
      }
   </script>
</head>
<body>
```

```html
<div>
    <h1>Login</h1>
    <formaction="login.php"method="post"onsubmit="return validateForm();">
        <inputtype="text"placeholder="Username"id="username" name="username" required>
        <br><br>
        <spanclass="error"><?phpecho$usernameError;?></span> <!--Displayusernameerror-->
        <br><br>
        <inputtype="password"placeholder="Password" id="password" name="password" required><br><br>
        <spanclass="error"><?phpecho$passwordError;?></span> <!--Displaypassworderror-->
        <br><br>
        <inputtype="checkbox"id="remember_me" name="remember_me">I'm not a robot<br>
        <br>
        <spanclass="error"><?phpecho$checkboxError;?></span> <!--Displaycheckboxerror-->
        <br><br>
        <inputtype="submit"value="Login"id="submit">
        <br><br>
        <p>Don'thaveanaccount?<ahref="register.html" target="_blank">Register</a></p>
    </form>
</div>
</body>
</html>
```

4) HOMEPAGE:

HTML:

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
  <metacharset="UTF-8">
  <metaname="viewport"content="width=device-width,initial-scale=1.0">
  <title>TravelBooking</title>
  <linkrel="stylesheet"href="styles.css">
  <linkhref="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css" rel="stylesheet">
  <style>
    /*AdditionalCSSforFlightResults*/
    .flight-result
      { display:fle
      x;
      flex-direction:column;
      gap: 20px;
    }
    .flight-card
      { display:fle
      x;
      border:1pxsolid#ddd;
      padding: 20px;
      border-radius: 8px;
      background-color:#fff;
    }
```

```css
.airline-logo
    { width: 50px;
    height:50px;
    margin-right:20px;
}

.flight-details
    { display:fle
    x;
    justify-content:space-between;
    width: 100%;
    align-items:center;
}

.flight-time,.flight-route,.flight-
    duration,.price{ display: block;
    font-size:14px;
}

.price{
    font-weight:bold;
    color: #007bff;
}

.view-prices
    { padding:8px12px;
```

```css
        background-color:#007bff;

        color: #fff;

        border: none;

        border-radius:4px;

        cursor: pointer;

    }


    .view-prices:hover

        { background-

        color:#0056b3;

    }

    .logo{

        height:100%;

        width: 38px;

    }

    .navbar-brand{

        /*background-color:aliceblue;*/

        height: 40px;

        display:flex;

        gap: 10px;

        align-items:center;

    }


    </style>

</head>

<body>

    <!--NavbarSection-->
```

```html
<navclass="navbar">
    <divclass="navbar-brand">
        <imgsrc="LOGO.png"alt="TravelBookingLogo"
class="logo">
        <spanid="tb">TravelBooking</span>
    </div>
    <divclass="navbar-menu">
        <ahref="login.html">LoginorCreateAccount</a>
        <ahref="#">IN|ENG|USD</a>
    </div>
</nav>


<!--HeroSection-->
<headerclass="hero">
    <h1>BookYourJourney</h1>
    <p>Exploretheworldwithourseamlessbooking
experience.</p>
</header>


<!--BookingCategoriesSection-->
<divclass="booking-categories">
    <divclass="category"onclick="showSection('flights')">
        <iclass="fasfa-plane"></i>
        <span>Flights</span>
    </div>
    <divclass="category"onclick="showSection('hotels')">
        <iclass="fasfa-hotel"></i>
```

```html
      <span>Hotels</span>
    </div>
    <div class="category" onclick="showSection('cabs')">
      <i class="fasfa-car"></i>
      <span>Cabs</span>
    </div>
    <div class="category" onclick="showSection('trains')">
      <i class="fasfa-train"></i>
      <span>Trains</span>
    </div>
    <div class="category" onclick="showSection('buses')">
      <i class="fasfa-bus"></i>
      <span>Buses</span>
    </div>
  </div>

  <!--SearchFormforFlights-->
  <div class="search-form" id="flights">
    <h2>SearchFlights</h2>
    <form>
      <div class="form-group">
        <label for="flight-from">From:</label>
        <input type="text" id="flight-from" name="flight_from"
placeholder="City or Airport" required>
      </div>
      <div class="form-group">
        <label for="flight-to">To:</label>
```

```html
        <input type="text" id="flight-to" name="flight_to"
placeholder="City or Airport" required>
      </div>
      <div class="form-group">
        <label for="flight-departure">Departure:</label>
        <input type="date" id="flight-departure"
name="flight_departure" required>
      </div>
      <a href="flights.html"><button type="button"
onclick="showResults('flights')">Search</button></a>
    </form>
  </div>


  <!--Search Form for Hotels-->
  <div class="search-form" id="hotels" style="display:none;">
    <h2>Search Hotels</h2>
    <form>
      <div class="form-group">
        <label for="hotel-location">Location:</label>
        <input type="text" id="hotel-location" placeholder="City or Hotel
Name" required>
      </div>
      <div class="form-group">
        <label for="checkin">Check-In:</label>
        <input type="date" id="checkin" required>
      </div>
      <div class="form-group">
```

```html
        <labelfor="checkout">Check-Out:</label>
        <inputtype="date"id="checkout"required>
    </div>
    <divclass="form-group">
        <labelfor="hotel-guests">Guests:</label>
        <input type="number" id="hotel-guests"
placeholder="NumberofGuests"min="1"required>
    </div>
    <a href="hotals.html"><button type="button"
onclick="showResults('hotels')">Search</button></a>
</form>
</div>


<!--SearchFormforCabs-->
<divclass="search-form"id="cabs"style="display:none;">
    <h2>SearchCabs</h2>
    <form>
        <divclass="form-group">
            <labelfor="cab-location">Pick-UpLocation:</label>
            <inputtype="text"id="cab-location" placeholder="Location"
required>
        </div>
        <divclass="form-group">
            <labelfor="cab-drop">DropLocation:</label>
            <inputtype="text"id="cab-drop"placeholder="Location"
required>
        </div>
```

```html
        <divclass="form-group">
          <labelfor="cab-date">Date:</label>
          <inputtype="date"id="cab-date"required>
        </div>
        <a href="cabs.html"><button type="button"
onclick="showResults('cabs')">Search</button></a>
    </form>
  </div>


  <!--SearchFormforTrains-->
  <divclass="search-form"id="trains"style="display:none;">
    <h2>SearchTrains</h2>
    <form>
        <divclass="form-group">
          <labelfor="train-from">From:</label>
          <inputtype="text"id="train-from"placeholder="Cityor
Station" required>
        </div>
        <divclass="form-group">
          <labelfor="train-to">To:</label>
          <inputtype="text"id="train-to"placeholder="Cityor Station"
required>
        </div>
        <divclass="form-group">
          <labelfor="train-date">Date:</label>
          <inputtype="date"id="train-date"required>
        </div>
```

```html
        <ahref="trains.html"target="_main"><buttontype="button"
onclick="showResults('trains')">Search</button></a>
    </form>
  </div>


  <!--SearchFormforBuses-->
  <divclass="search-form"id="buses"style="display:none;">
    <h2>SearchBuses</h2>
    <form>
      <divclass="form-group">
        <labelfor="bus-from">From:</label>
        <inputtype="text"id="bus-from"placeholder="Cityor
Station" required>
      </div>
      <divclass="form-group">
        <labelfor="bus-to">To:</label>
        <inputtype="text"id="bus-to"placeholder="Cityor Station"
required>
      </div>
      <divclass="form-group">
        <labelfor="bus-date">Date:</label>
        <inputtype="date"id="bus-date"required>
      </div>
      <a href="buses.html"><button type="button"
onclick="showResults('buses')">Search</button></a>
    </form>
  </div>
```

```html
<!--ResultsSection-->
<!--UpdateResultsSection-->
<divclass="results-section"id="results"style="display:none;">
  <h2>AvailableOptions</h2>
  <divid="results-content"></div>
  <!--FilterOptions-->
  <divclass="filter-options">
    <!--Existingfilteroptions-->
    <buttonclass="filter-btn">ApplyFilters</button>
  </div>
  <!--ProceedtoPaymentButton-->
  <divclass="proceed-to-payment">
    <ahref="payment.html"class="proceed-btn">Proceedto Payment</a>
  </div>
</div>

  <footerclass="footer">
    <p>©2025TravelBooking.Allrightsreserved.</p>
  </footer>

  <script>
    functionshowSection(sectionId){
      constsections=document.querySelectorAll('.search-form');
      sections.forEach(section => section.style.display = 'none');
```

```javascript
      document.getElementById('results').style.display='none';//
Hide results


      constselectedSection=document.getElementById(sectionId);

      selectedSection.style.display = 'block';

   }


   functionshowResults(type,event){ c

      onsole.log(event);

      constresultsContent=document.getElementById('results-
content');

      resultsContent.innerHTML=`<p>Displayingresultsfor
${type}...</p>`;

      document.getElementById('results').style.display='block';

   }
 </script>
 <!--Addthisscripttothehomepage-->
<script>
  functionsearchFlights(){ con

    st fromLocation =
document.getElementById("fromInput").value;

    consttoLocation=document.getElementById("toInput").value;

    window.location.href =
`flights.html?from=${encodeURIComponent(fromLocation)}&to=${
encodeURIComponent(toLocation)}`;

  }
</script>
```

```
</body>
</html>
```

CSS:

```css
/*NavbarStyles*/
nav {
    display:flex;
    justify-content:center;
    align-items: center;
    background-color:#1abc9c;/*Lightgreencolor*/
    padding: 20px 40px;
    position:fixed;/*Navbarstaysatthetop*/
    width: 100%;
    top:0;
    left:0;
    z-index:100;

}

nav .logo
    { color:white;
    font-size:36px;/*Increasedlogosize*/
    font-weight: bold;
    border:none;
}
```

```css
body{
    display:flex;
    justify-content:center;
    align-items: center;
    min-height: 100vh;
    background-color:#2c3e50;
}

#username{ heigh
    t:40px; width:
    98%;
    border-radius:40px;
    border: none;
    outline: none;
    background:transparent;
    border:2pxsolidrgba(255,255,255,.2);
}
#password{ heigh
    t:40px; width:
    98%;
    border-radius:40px;
    border: none;
    outline: none;
    background:transparent;
    border:2pxsolidrgba(255,255,255,.2);
}
```

```css
#submit{ height:
    40px;
    width:100%;
    border-radius: 40px;
    background-color:whitesmoke;
    border: none;
    outline: none;
    cursor:pointer;
    color: #333;
    font-weight:600;
    font-size: 15px;
}
div{
    width: 420px;
    background:transparent;
    border:2pxsolidrgba(255,255,255,.2); color:
    aliceblue;
    border-radius:10px;
    padding: 5px 40px;
}
h1{
    font-size: 36px;
    text-align:center;
}
::placeholder{ colo
    r:aliceblue;
```

```css
}
p{
    text-align: center;
    margin:20px015px;
}
pa{
    color:#fff;
    text-decoration:none;
    font-weight: 550;
    font-size: 15px;


}
a:hover{
    text-decoration:underline;
}
```

5) FLIGHTS:

<u>HTML:</u>

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <metacharset="UTF-8">
    <metaname="viewport"content="width=device-width,initial-scale=1.0">
    <title>TravelBooking-BookMyTickets</title>
    <linkrel="stylesheet"href="flights.css">
```

```html
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-
beta3/css/all.min.css">
</head>
<body>
  <divclass="container">
    <!--Sidebar-->
    <asideclass="sidebar">
      <h2>Filters</h2>
      <divclass="filter-section">
        <h4>FlightClass</h4>
        <label><inputtype="checkbox"class="flight-filter">
Business</label>
        <label><inputtype="checkbox"class="flight-filter">
Economy</label>
        <label><inputtype="checkbox"class="flight-filter">
Student</label>
      </div>


      <divclass="filter-section">
        <h4>ArrivalTime</h4>
        <buttonclass="time-filter">12am-6am</button>
        <buttonclass="time-filter">6am-12pm</button>
        <buttonclass="time-filter">12pm-6pm</button>
        <buttonclass="time-filter">6pm-12am</button>
      </div>
    </aside>
```

```html
<!--MainContent(Flight/TrainListings)-->
<mainclass="main-content">
  <!--FlightSection-->
  <sectionid="flights">
    <h2>AvailableFlights</h2>
    <divclass="listing">
      <!--Flight1-->
      <divclass="flight-item">
        <h3>AirIndia</h3>
        <p>Depart:SMTWTFS</p>
        <p>Class:NON-STOP</p>
        <span>₹5346</span>
        <buttonclass="book-button"onclick="bookNow('Air India', '₹5346')">Book Now</button>
      </div>
      <!--Flight2-->
      <divclass="flight-item">
        <h3>Indigo</h3>
        <p>Depart:SMTWTFS</p>
        <p>Class:1-Stop</p>
        <span>₹5340</span>
        <button class="book-button" onclick="bookNow('Indigo','₹5340')">BookNow</button>
      </div>

    </div>
  </section>
```

```
        </main>
    </div>


    <script>
        functionbookNow(ticketName,ticketPrice){
            //RedirecttothepaymentpagewithticketdetailsasURL parameters
            window.location.href=
`payment.html?ticketName=${encodeURIComponent(ticketName)}
&ticketPrice=${encodeURIComponent(ticketPrice)}`;
        }
    </script>
    <!--Addthisscriptinsidethe<body>offlights.html-->
<script>
    document.addEventListener("DOMContentLoaded",function(){ co
        nst urlParams = new
URLSearchParams(window.location.search);
        constfromLocation=urlParams.get("from"); const
        toLocation = urlParams.get("to");


        constavailableFlights=[
            {
                name:"AirIndia",
                from: "Delhi",
                to: "Mumbai",
                price:"₹5346",
                class:"NON-STOP",
```

```javascript
    },
    {
        name: "Indigo",
        from:"Mumbai",
        to: "Delhi", price:
        "₹5340", class:
        "1-Stop",
    }
];


constlistingContainer=document.querySelector(".listing");
listingContainer.innerHTML = ""; // Clear existing listings


availableFlights.forEach(flight=>{
    if((flight.from===fromLocation&&flight.to=== toLocation) ||
(!fromLocation && !toLocation)) {
        constflightItem=document.createElement("div");
        flightItem.classList.add("flight-item");
        flightItem.innerHTML = `
            <h3>${flight.name}</h3>
            <p>Depart:SMTWTFS</p>
            <p>Class:${flight.class}</p>
            <span>${flight.price}</span>
            <button class="book-button"
onclick="bookNow('${flight.name}','${flight.price}')">Book
Now</button>
            `;
```

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```
            listingContainer.appendChild(flightItem);
        }
    });
});
</script>


    <scriptsrc="flights.js"></script>
</body>
</html>
```

CSS:

```css
/*GeneralReset*/
*{
    margin:0;
    padding:0;
    box-sizing:border-box;
    font-family:'Arial',sans-serif;
}

/*Body*/ body
{
    background-color:#f4f4f9;
    font-size: 16px;
}

/*ContainerLayout*/
```

```css
.container
  { display:flex;
  justify-content:space-between;
  padding: 20px;
}


/*Sidebar*/
.sidebar
  {width:250px;
  background-color:#fff;
  padding: 20px;
  border-radius:8px;
  box-shadow:04px10pxrgba(0,0,0,0.1);
}


.sidebarh2{
  font-size: 22px;
  margin-bottom:15px;
}


.filter-section h4
  { margin-
  bottom:10px;
}


.filter-sectionlabel,.filter-
  sectionbutton{ display: block;
```

```css
    margin-bottom:8px;

    font-size: 14px;

}


/*Buttons*/
button {

    padding:10px;

    background-color:#007bff;

    color: white;

    border: none;

    border-radius:5px;

    cursor: pointer;

}


button:hover{

    background-color:#0056b3;

}


/*MainContent*/
.main-

    content{ flex: 1;

    margin-left:20px;

    display: flex;

    flex-direction:column;

}
```

```css
h2{
    margin-bottom:20px;
    color: #333;
}
/*Flight/TrainListings*/
.listing
    { display:gri
    d;
    grid-template-columns:repeat(2,1fr);
    gap: 20px;
}
.flight-item, .train-item
    { background-
    color:#fff; padding:
    20px;
    border-radius:8px;
    box-shadow:04px10pxrgba(0,0,0,0.1);
    text-align: center;
}

.flight-itemh3,.train-
    itemh3{ font-size: 20px;
    color:#007bff;
}

.flight-itemspan,.train-itemspan{
```

```css
    display: block;
    font-size: 18px;
    font-weight: 600;
    margin-top:10px;
}


.book-button
    { margin-
    top:15px;
}


/* Responsive Layout */
@media(max-width:768px){
    .container{
        flex-direction:column;
    }


    .sidebar
        { width:100
        %;
        margin-bottom:20px;
    }
    .main-content
        { margin-
        left:0;
    }
    .listing{
```

```css
      grid-template-columns:1fr;
  }
}
```

JAVASCRIPT:

```javascript
document.getElementById('search-button').addEventListener('click',
function() {
  //Gettheselectedlocations
  constfromLocation=document.getElementById('from- input').value;
  consttoLocation=document.getElementById('to-input').value;

  //Getallflightitemsandhidetheminitially
  constflightItems=document.querySelectorAll('.flight-item');
  flightItems.forEach(item => item.style.display = 'none');

  //Filteranddisplaymatchingflights
  flightItems.forEach(item => {
    if(item.getAttribute('data-from')===fromLocation&&
item.getAttribute('data-to') === toLocation) {
      item.style.display='block';
    }
  });
});
```

6) BUSES:
HTML :

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```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bus Booking - Travel Booking</title>
    <link rel="stylesheet" href="buses.css">
</head>
<body>
    <div class="container">
        <!-- Sidebar -->
        <aside class="sidebar">
            <h2>Filters</h2>
            <div class="filter-section">
                <h4>Bus Type</h4>
                <label><input type="checkbox">Sleeper</label>
                <label><input type="checkbox">Semi-Sleeper</label>
                <label><input type="checkbox">AC</label>
            </div>
            <div class="filter-section">
                <h4>Departure Time</h4>
                <button>12am-6am</button>
                <button>6am-12pm</button>
                <button>12pm-6pm</button>
                <button>6pm-12am</button>
            </div>
```

```html
    </aside>

    <!--BusListings-->
    <mainclass="bus-list">
        <divclass="bus-item">
            <h3>CitylineExpress</h3>
            <p>ACSleeper</p>
            <span>₹800</span>
            <button class="book-button"
onclick="goToPayment('CitylineExpress','800')">Book
Now</button>
        </div>
        <divclass="bus-item">
            <h3>SuperLuxury</h3>
            <p>NonACSeater2+2PushBack</p>
            <span>₹443</span>
            <buttonclass="book-button"onclick="goToPayment('Super
Luxury', '443')">Book Now</button>
        </div>
        <divclass="bus-item">
            <h3>LAHARI</h3>
            <p>A/CSLEEPERCUMSEATER</p>
            <span>₹532</span>
            <button class="book-button"
onclick="goToPayment('LAHARI','532')">BookNow</button>
        </div>
        <!--Repeatbus-itemblocksformorebuses-->
```

```
        </main>
    </div>


    <script>
        functiongoToPayment(busName,price){ c
            onst url =
`payment.html?ticketName=${busName}&ticketPrice=${price}`;
            window.location.href = url;
        }
    </script>
</body>
</html>
```

CSS:
```
/*buses.css*/


*{
    margin:0;
    padding:0;
    box-sizing:border-box;
    font-family:Arial,sans-serif;
}


body{
    display:flex;
    justify-content:center;
    align-items:flex-start;
```

```css
    background-color:#f5f5f5;
}


.container
    { display:flex;
    width: 90%;
    max-width:1200px;
    padding: 20px;
    gap:20px;
}


/*Sidebar*/
.sidebar
    { width:25
    %;
    background-color:#fff;
    padding: 15px;
    border-radius:8px;
    box-shadow:04px8pxrgba(0,0,0,0.1);
}


.sidebarh2{
    font-size:18px;
    color: #333;
    margin-bottom: 15px;
}
```

```css
.filter-section h4
    { margin-
    bottom:10px; color:
    #333;
}

.filter-sectionlabel,.filter-
    sectionbutton{ display: block;
    margin-bottom:8px;
    font-size: 14px;
}

button{
    padding:8px;
    width:100%;
    border:1pxsolid#ddd;
    background-color:#fff;
    border-radius: 4px;
    cursor: pointer;
}

/*BusListingStyles*/
.bus-list
    { width: 75%;
    display:flex;
    flex-direction:column;
    gap: 15px;
```

```css
    }

    .bus-item{
       background-color:#fff;
       padding: 15px;
       border-radius:8px;
       box-shadow:04px8pxrgba(0,0,0,0.1);
    }

    .bus-item h3
       { font-
       size:18px;
       color: #333;
       margin-bottom: 5px;
    }

    .bus-itemp{
       font-size:14px;
       color: #666;
       margin-bottom: 8px;
    }

    .bus-item span
       { font-
       size:16px;
       color: #007bff;
    }
```

```
.book-button{
   background-color:#007bff;
   color: white;
   border: none;
   padding:8px16px;
   border-radius:4px;
   cursor: pointer;
}

.book-button:hover
   { background-
   color:#0056b3;
}
```
7) CABS:

HTML:

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
   <metacharset="UTF-8">
   <metaname="viewport"content="width=device-width,initial-
scale=1.0">
   <title>CabBooking-TravelBooking</title>
   <linkrel="stylesheet"href="cabs.css">
</head>
<body>
   <divclass="container">
      <!--Sidebar-->
```

```html
<aside class="sidebar">
  <h2>Filters</h2>
  <div class="filter-section">
    <h4>CarType</h4>
    <label><input type="checkbox">Sedan</label>
    <label><input type="checkbox">SUV</label>
    <label><input type="checkbox">Hatchback</label>
  </div>
  <div class="filter-section">
    <h4>RentalType</h4>
    <label><input type="checkbox">Full-Day</label>
    <label><input type="checkbox">Hourly</label>
  </div>
</aside>

<!--CabListings-->
<main class="cab-list">
  <div class="cab-item">
    <h3>CityTaxi</h3>
    <p>Type:Sedan</p>
    <span>₹500/day</span>
    <button class="book-button" onclick="goToPayment('City Taxi', '500')">Book Now</button>
  </div>
  <div class="cab-item">
    <h3>LuxurySUV</h3>
    <p>Type:Sedan</p>
```

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```html
        <span>₹700/day</span>

        <button class="book-button"
onclick="goToPayment('LuxurySUV','700')">BookNow</button>

      </div>

      <divclass="cab-item">

        <h3>ExecutiveSedan</h3>

        <p>Type:Sedan</p>

        <span>₹900/day</span>

        <button class="book-button"
onclick="goToPayment('ExecutiveSedan','900')">Book
Now</button>

      </div>

      <!--Repeatcab-itemblocksformorecabs-->

    </main>

  </div>


  <script>

    functiongoToPayment(cabName,price){ c

      onst url =
`payment.html?ticketName=${cabName}&ticketPrice=${price}`;

      window.location.href = url;

    }

  </script>

</body>

</html>
```

CSS:

```css
/*cabs.css*/

*{
    margin:0;
    padding:0;
    box-sizing:border-box;
    font-family:Arial,sans-serif;
}

body{
    display:flex;
    justify-content: center;
    align-items: flex-start;
    background-color:#f5f5f5;
}

.container
    { display:flex;
    width: 90%;
    max-width:1200px;
    padding: 20px;
    gap:20px;
}

/*Sidebar*/
.sidebar{
```

```css
    width: 25%;
    background-color:#fff;
    padding: 15px;
    border-radius:8px;
    box-shadow:04px8pxrgba(0,0,0,0.1);
}

.sidebarh2{
    font-size:18px;
    color: #333;
    margin-bottom: 15px;
}

.filter-section h4
    { margin-
    bottom:10px; color:
    #333;
}

.filter-sectionlabel,.filter-
    sectionbutton{ display: block;
    margin-bottom:8px;
    font-size: 14px;
}

button{
    padding:8px;
```

```css
    width:100%;
    border:1pxsolid#ddd;
    background-color:#fff;
    border-radius: 4px;
    cursor: pointer;
}

/*CabListingStyles*/
.cab-list
    { width: 75%;
    display:flex;
    flex-direction:column;
    gap: 15px;
}

.cab-item{
    background-color:#fff;
    padding: 15px;
    border-radius:8px;
    box-shadow:04px8pxrgba(0,0,0,0.1);
}

.cab-item h3
    { font-
    size:18px;
    color: #333;
    margin-bottom: 5px;
```

```css
}

.cab-itemp{
   font-size:14px;
   color: #666;
   margin-bottom: 8px;
}

.cab-item span
   { font-
   size:16px;
   color: #007bff;
}

.book-button{
   background-color:#007bff;
   color: white;
   border: none;
   padding:8px16px;
   border-radius:4px;
   cursor: pointer;
}

.book-button:hover
   { background-
   color:#0056b3;
}
```

8) HOTELS:

HTML:

```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
   <metacharset="UTF-8">
   <metaname="viewport"content="width=device-width,initial-scale=1.0">
   <title>HotelBooking-TravelBooking</title>
   <linkrel="stylesheet"href="hotals.css">
</head>
<body>
   <divclass="container">
      <!--Sidebar-->
      <asideclass="sidebar">
         <h2>Filters</h2>
         <divclass="filter-section">
            <h4>StarRating</h4>
            <label><inputtype="checkbox">5-Star</label>
            <label><inputtype="checkbox">4-Star</label>
            <label><inputtype="checkbox">3-Star</label>
         </div>
         <divclass="filter-section">
            <h4>Amenities</h4>
            <label><inputtype="checkbox">FreeBreakfast</label>
            <label><inputtype="checkbox">FreeWi-Fi</label>
            <label><inputtype="checkbox">Pool</label>
```

```html
        </div>
    </aside>


    <!--HotelListings-->
    <mainclass="hotel-list">
        <divclass="hotel-item">
            <h3>GrandHotel</h3>
            <p>5-StarHotel</p>
            <span>₹3,000/night</span>
            <button class="book-button"
onclick="goToPayment('GrandHotel','3000')">BookNow</button>
        </div>
        <divclass="hotel-item">
            <h3>TajHotal</h3>
            <p>5-StarHotel</p>
            <span>₹5,000/night</span>
            <button class="book-button" onclick="goToPayment('Taj
Hotal', '5000')">Book Now</button>
        </div>


        <!--Repeathotel-itemblocksformorehotels-->
    </main>
  </div>


  <script>
    functiongoToPayment(hotelName,price){
```

```
        consturl=
`payment.html?ticketName=${hotelName}&ticketPrice=${price}`;
        window.location.href = url;

    }
  </script>
</body>
</html>
```

CSS:

```css
/*hotels.css*/

*{
   margin:0;
   padding:0;
   box-sizing:border-box;
   font-family:Arial,sans-serif;
}

body{
   display:flex;
   justify-content: center;
   align-items: flex-start;
   background-color:#f5f5f5;
}

.container
   { display:flex;
```

```css
    width:90%;
    max-width:1200px;
    padding: 20px;
    gap:20px;
}


/*Sidebar*/
.sidebar
    { width:25
    %;
    background-color:#fff;
    padding: 15px;
    border-radius:8px;
    box-shadow:04px8pxrgba(0,0,0,0.1);
}

.sidebarh2{
    font-size:18px;
    color: #333;
    margin-bottom: 15px;
}

.filter-section h4
    { margin-
    bottom:10px; color:
    #333;
}
```

```css
.filter-sectionlabel,.filter-
    sectionbutton{ display: block;
    margin-bottom:8px;
    font-size: 14px;
}

button{
    padding:8px;
    width:100%;
    border:1pxsolid#ddd;
    background-color:#fff;
    border-radius: 4px;
    cursor: pointer;
}

/*HotelListingStyles*/
.hotel-list
    { width: 75%;
    display:flex;
    flex-direction:column;
    gap: 15px;
}

.hotel-item{
    background-color:#fff;
    padding: 15px;
```

```css
    border-radius:8px;
    box-shadow:04px8pxrgba(0,0,0,0.1);
}

.hotel-item h3
    { font-
    size:18px;
    color: #333;
    margin-bottom: 5px;
}

.hotel-item p
    { font-
    size:14px;
    color: #666;
    margin-bottom: 8px;
}

.hotel-item    span
    {         font-
    size:16px;
    color: #007bff;
}
.book-button{
    background-color:#007bff;
    color: white; border:
    none;padding:8px16px;
```

```css
    border-radius:4px;

    cursor: pointer;

}


.book-button:hover

    { background-

    color:#0056b3;

}
```

9) TRAINS:

HTML:

```html
<!DOCTYPEhtml>

<htmllang="en">

<head>

    <metacharset="UTF-8">

    <metaname="viewport"content="width=device-width,initial-
scale=1.0">

    <title>TrainBooking-TravelBooking</title>

    <linkrel="stylesheet"href="trains.css">

    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-
beta3/css/all.min.css">

</head>

<body>

    <divclass="container">

        <!--FilterSidebar-->

      <asideclass="sidebar">

        <divclass="filter-section">
```

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```html
      <h4>TrainClass</h4>
      <label><inputtype="checkbox">3rdClassAC- 3A</label>
      <label><inputtype="checkbox">Sleeper-SL</label>
      <label><inputtype="checkbox">ACChairCar- CC</label>
    </div>
    <divclass="filter-section">
      <h4>ArrivalTime</h4>
      <button>12am-6am</button>
      <button>6am-12pm</button>
      <button>12pm-6pm</button>
      <button>6pm-12am</button>
    </div>
  </aside>

  <!--TrainListings-->
  <mainclass="train-list">
    <divclass="train">
      <divclass="train-header">
        <h2>ExpressTrain101</h2>
        <span>Depart:SMTWTFS</span>
      </div>
      <divclass="train-details">
        <divclass="class">
          <p>3A</p>
          <span>₹550</span>
```

```html
        <p>Available5</p>
        <buttonclass="book-now"data-train="ExpressTrain 101" data-price="₹550">Book Now</button>
    </div>
    <divclass="class">
        <p>SL</p>
        <span>₹180</span>
        <p>Available10</p>
        <buttonclass="book-now"data-train="ExpressTrain 101" data-price="₹180">Book Now</button>
    </div>
    <divclass="class">
        <p>CC</p>
        <span>₹840</span>
        <p>Available8</p>
        <buttonclass="book-now"data-train="ExpressTrain 101" data-price="₹840">Book Now</button>
    </div>
  </div>
</div>
<divclass="train">
  <divclass="train-header">
    <h2>MorningExpress</h2>
    <span>Depart:SMTWTFS</span>
  </div>
  <divclass="train-details">
    <divclass="class">
```

```html
<p>3A</p>
<span>₹570</span>
<p>Available7</p>
<buttonclass="book-now"data-train="Morning Express" data-price="₹570">Book Now</button>
</div>
<divclass="class">
<p>2A</p>
<span>₹760</span>
<p>Available5</p>
<buttonclass="book-now"data-train="Morning Express" data-price="₹760">Book Now</button>
</div>
</div>
</div>
<divclass="train">
<divclass="train-header">
<h2>CityExpress</h2>
<span>Depart:SMTWTFS</span>
</div>
<divclass="train-details">
<divclass="class">
<p>2A</p>
<span>₹750</span>
<p>Available8</p>
<buttonclass="book-now"data-train="CityExpress" data-price="₹750">Book Now</button>
```

```html
        </div>
        <divclass="class">
          <p>3A</p>
          <span>₹550</span>
          <p>Available6</p>
          <buttonclass="book-now"data-train="CityExpress"
data-price="₹550">Book Now</button>
        </div>
      </div>
    </div>


    <!--Repeatsimilarstructureforeachtrain-->


  </main>
 </div>


 <script>
   //Handlethe"BookNow"buttonclickandnavigatetothe payment
page with train details
   document.querySelectorAll('.book-
     now').forEach(button=>{ button.addEventListener('click',
     function() {
       consttrainName=this.getAttribute('data-train');
       const price = this.getAttribute('data-price');
       window.location.href=
`payment.html?ticketName=${encodeURIComponent(trainName)}&t
icketPrice=${encodeURIComponent(price)}`;
     });
```

```
        });
    </script>
</body>
</html>
```

CSS:

```css
/*trains.css*/

*{
    margin:0;
    padding:0;
    box-sizing:border-box;
    font-family:Arial,sans-serif;
}

body{
    display:flex;
    justify-content: center;
    align-items: flex-start;
    background-color:#f5f5f5;
}

.container
    { display:flex;
    width: 90%;
    max-width:1200px;
```

```css
    padding:20px;

    gap: 20px;

}


.sidebar

    { width:25

    %;

    background-color:#fff;

    padding: 15px;

    border-radius:8px;

    box-shadow:04px8pxrgba(0,0,0,0.1);

}


.filter-section h4

    { margin-

    bottom:10px; color:

    #333;

}


.filter-sectionlabel,.filter-

    sectionbutton{ display: block;

    margin-bottom:8px;

    font-size: 14px;

}


button{

    padding:8px;
```

```css
    border:1pxsolid#ddd;
    background-color:#fff;
    border-radius: 4px;
    cursor: pointer;
}

button:hover{
    background-color:#e9f5ff;
}

.train-list
    { width: 75%;
    display:flex;
    flex-direction:column;
    gap: 15px;
}

.train{
    background-color:#fff;
    padding: 15px;
    border-radius:8px;
    box-shadow:04px8pxrgba(0,0,0,0.1);
}

.train-header,.train-
    footer{ display: flex;
```

```css
    justify-content:space-between;
    align-items: center;
}


.train-header    h2
    {            font-
    size:18px;
    color: #333;
}


.train-details
    { display:flex;
    gap: 20px;
    margin-top:10px;
}


.class{
    text-align: center;
    background-color:#e9f5ff;
    padding: 10px;
    border-radius:8px;
    width: 120px;
}


.classp,.classspan{ f
    ont-size: 14px;
    color: #333;
```

```css
}

.book-now{
    margin-top: 10px;
    background-color:#007bff;
    color: white;
    border: none;
    padding:8px16px;
    border-radius:4px;
    cursor: pointer;
}

.book-now:hover
    { background-
    color:#0056b3;
}

.view-route{
    background-color:#007bff;
    color: white;
    border: none;
    padding:8px16px;
    border-radius:4px;
    cursor: pointer;
}

.view-route:hover{
```

```css
    background-color:#0056b3;

}


/*Responsive*/
@media(max-width:768px){
    .container{
        flex-direction:column;

    }
    .sidebar
        { width:100

        %;

    }
    .train-list
        { width:100%;

    }
}
```

10) PAYMENT:
HTML:
```html
<!DOCTYPEhtml>
<htmllang="en">
<head>
    <metacharset="UTF-8">
    <metaname="viewport"content="width=device-width,initial-
scale=1.0">
    <title>Payment-BookMyTickets</title>
    <linkrel="stylesheet"href="payment.css">
```

```html
<body>
   <divclass="payment-container">
      <h2>PaymentDetails</h2>
      <divclass="payment-form">
         <p><strong>TicketBookingDetails:</strong></p>
         <p><strong>Flight/Cabs/Hotels/Train/Buses:</strong><span id="ticket-name"></span></p>
         <p><strong>Price:</strong><spanid="ticket-price"></span></p>


         <formid="payment-form"action="submit_payment.php" method="POST">
            <!--HiddenInputstopassdatatobackend-->
            <inputtype="hidden"id="hidden-ticket-name" name="ticketName">
            <inputtype="hidden"id="hidden-ticket-price" name="ticketPrice">


            <b>ConfirmationofMode</b><br>
            <selectname="transportMode"id="mode"required>
               <optionvalue="flight">Flight</option>
               <optionvalue="bus">Bus</option>
               <optionvalue="cab">Cab</option>
               <optionvalue="train">Train</option>
               <optionvalue="hotel">Hotel</option>
            </select>
            <br><br>
```

```html
<label for="name">Full Name</label>
<input type="text" id="name" name="fullname" required>


<label for="card-number">Card Number</label>
<input type="text" inputmode="numeric" maxlength="16"
pattern="[0-9\s]{13,19}" id="card-number" name="card-number"
required placeholder="xxxx xxxx xxxx xxxx">
<br>
<label for="expiry">Validity Date</label>
<input type="text" id="expiry" name="expiry" required>


<label for="cvv">CVV</label>
<input type="text" inputmode="numeric"
maxlength="3" id="cvv" name="cvv" required>
<br><br>


<!--CAPTCHA Section-->
<div>
    <label for="captcha">Enter the text shown
below:</label>
    <div>
        <img src="captcha.php" id="captcha-image"
alt="CAPTCHA Image">
        <button type="button" id="refresh-
captcha"></button>
    </div>
    <input type="text" id="captcha-input"
name="captchaInput" required>
```

```
        </div>

        <br>
        <buttontype="submit">PayNow</button>
    </form>
  </div>
</div>


<script>
    const urlParams = new
URLSearchParams(window.location.search);
    const ticketName =
decodeURIComponent(urlParams.get('ticketName')||"Not Provided");
    let ticketPrice =
decodeURIComponent(urlParams.get('ticketPrice')||"NotProvided");


    ticketPrice = ticketPrice.replace(/[^\d.₹]/g, '');


    document.getElementById('ticket-name').textContent=
ticketName;
    document.getElementById('ticket-price').textContent=
ticketPrice;


    document.getElementById('hidden-ticket-name').value=
ticketName;
    document.getElementById('hidden-ticket-price').value=
ticketPrice;
```

```
    document.getElementById('refresh-
captcha').addEventListener('click',()=>{

        document.getElementById('captcha-image').src=
'captcha.php?' + Date.now();

    });
```

```
    </script>
</body>
</html>
```

CSS:

```css
.payment-container
    { max-width: 600px;
    margin: 50px auto;
    padding: 20px;
    background-color:#fff;
    box-shadow:04px10pxrgba(0,0,0,0.1);
    border-radius: 8px;
}

.payment-
    form{ display:
    flex;
    flex-direction:column;
}
```

```css
.payment-form p
    { margin-
    bottom:15px;
}


.payment-form label
    { font-size: 16px;
    margin-bottom:5px;
    margin-top: 10px;
}


.payment-form input
    { padding: 10px;
    margin-bottom:15px;
    font-size: 14px;
    border:1pxsolid#ccc;
    border-radius: 5px;
}


.payment-
    formbutton{ padding:
    10px;
    background-color:#28a745;
    color: white;
    font-size: 16px;
    border: none;
    border-radius:5px;
```

```css
}

.payment-form button:hover
    { background-
    color:#218838;
}


#mode {height:
    30px;
    width:100%;
}


/*CAPTCHAStyles*/
#captcha-code {
    background-color:#f0f0f0;
    padding: 5px 10px;border:
    1px solid #ccc; display:
    inline-block; margin-right:
    10px;
    border-radius:5px;
}


#refresh-captcha
    { background-
    color:#007bff; color: white;
    border: none;
    padding:5px10px;
```

```css
    border-radius:5px;

    cursor: pointer;

}


#refresh-captcha:hover

    { background-

    color:#0069d9;

}
```

JAVASCRIPT:

```javascript
document.addEventListener('DOMContentLoaded',()=>{ co

    nst urlParams = new
URLSearchParams(window.location.search);

    const ticketName =
decodeURIComponent(urlParams.get('ticketName')||"Not Provided");

    letticketPrice=decodeURIComponent(urlParams.get('ticketPrice')
||"NotProvided");


    //Removecurrencysymbolifpresent

    ticketPrice=ticketPrice.replace(/[^\d.₹]/g,'');//Allow₹symbol along
with digits


    // Set ticket name and price in the HTML

    document.getElementById('ticket-name').textContent=
ticketName;

    document.getElementById('ticket-price').textContent=ticketPrice;


    //CAPTCHAGeneration
```

```javascript
const captchaText = document.getElementById('captcha-code');
const captchaInput = document.getElementById('captcha-input');
constrefreshButton=document.getElementById('refresh-captcha');


functiongenerateCaptcha(){
   const chars =
'ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789';
   letcaptcha='';
   for(leti=0; i<6;i++){
      captcha+=chars.charAt(Math.floor(Math.random()* chars.length));
   }
   captchaText.textContent=captcha;
}


refreshButton.addEventListener('click',(e)=>{ e.preve
   ntDefault();
   generateCaptcha();
});


generateCaptcha();//Generateacaptchaonpageload


//Handleformsubmission
constpaymentForm=document.getElementById('payment-form');
paymentForm.addEventListener('submit', (e) => {
   e.preventDefault();
```

```javascript
constfullname=document.getElementById('name').value;
const enteredCaptcha = captchaInput.value.trim();
consttransportMode=document.getElementById('mode').value;

if (enteredCaptcha !== captchaText.textContent)
    { alert('Captcha is incorrect. Please try again.');
    generateCaptcha();//RefreshCAPTCHAifincorrect
    return;// Prevent form submission
}

//CreateFormData
const formData = new FormData();
formData.append('fullname', fullname);
formData.append('ticketName', ticketName);
formData.append('ticketPrice', ticketPrice);
formData.append('transportMode',transportMode);
formData.append('captchaInput', enteredCaptcha);

//Sendformdatatosubmit_payment.php
fetch('submit_payment.php', {
    method:'POST',
    body: formData
})
.then(response=>response.text())
.then(data=>{ a
    lert(data);
```

```javascript
                window.location.href='homepage.html';
            })
            .catch(error =>
                { console.error('Error:',error);
                alert('Anerroroccurred.Pleasetryagain.');
            });
        });
});
```

11) PROCESS.PHP:

```php
<?php
//Includethedatabaseconnectionfile
include('server.php');

//Checkiftheformissubmitted
if($_SERVER["REQUEST_METHOD"]=="POST"){

    //Collectandsanitizeformdata
    $first_name=mysqli_real_escape_string($conn,
$_POST['first_name']);
    $last_name=mysqli_real_escape_string($conn,
$_POST['last_name']);
    $phone_number=mysqli_real_escape_string($conn,
$_POST['phone_number']);
    $email=mysqli_real_escape_string($conn,$_POST['email']);
    $travel_date=mysqli_real_escape_string($conn,
$_POST['travel_date']);
```

```php
$gender=mysqli_real_escape_string($conn,$_POST['gender']);
$region=mysqli_real_escape_string($conn,$_POST['region']);
$password=$_POST['password'];
$confirm_password=$_POST['confirm_password'];


//Step1:Checkifpasswordsmatch
if($password!==$confirm_password){
    echo"Passwordsdonotmatch.Pleasetryagain.";
    exit(); // Stop further execution
}


//Step2:Checkifemailalreadyexistsinthedatabase
$check_email_query="SELECTemailFROMbookingsWHERE
email = '$email'";
$result=mysqli_query($conn,$check_email_query);


if(mysqli_num_rows($result)>0){
    echo"Thisemailisalreadyregistered.Pleaseuseanotheremail or log
in.";
    exit();//Stopfurtherexecution
}


//Step3:Hashthepassword
$hashed_password=password_hash($password,
PASSWORD_DEFAULT);


//Step4:SQLquerytoinsertdataintothe'bookings'table
```

```php
    $sql = "INSERT INTO bookings (first_name, last_name,
phone_number,email,travel_date,gender,region,password)
        VALUES ('$first_name', '$last_name', '$phone_number',
'$email','$travel_date','$gender','$region','$hashed_password')";


    //Executethequeryandcheckifthedatawasinsertedsuccessfully if
    (mysqli_query($conn, $sql)) {
        echo"Registrationsuccessful!";
    }else{
        echo"Error:".$sql."<br>".mysqli_error($conn);
    }


    //Closethedatabaseconnection
    mysqli_close($conn);
}
?>
```

12) SUBMIT_PAYMENT.PHP:

```php
<?php
session_start();//Thismustbeattheverytopofyourfile include('server.php');

if($_SERVER["REQUEST_METHOD"]=="POST"){
    //Debug:checkPOSTdata
    error_log("POSTData:".print_r($_POST,true));

    //Collectandsanitize
```

```php
    $fullname=mysqli_real_escape_string($conn,
$_POST['fullname']);

    $ticketName=mysqli_real_escape_string($conn,
$_POST['ticketName']);

    $ticketPrice=mysqli_real_escape_string($conn,
$_POST['ticketPrice']);

    $transportMode=mysqli_real_escape_string($conn,
$_POST['transportMode']);

    $captchaInput=trim($_POST['captchaInput']);//Capturingthe
user-entered CAPTCHA


    //Debug:checkiftransportModeismissing if
    (empty($transportMode)) {
        error_log("Error:TransportModeismissing."); echo
        "Error: Transport Mode is missing.";
        exit;
    }


    //ValidateCAPTCHA
    if(!isset($_SESSION['captcha_code'])){ ech
        o "<script>
            alert('Sessionexpired.Pleasetryagain.');
            window.location.href = 'payment.html';
        </script>";
        exit;
    }
```

```php
//Compareuser-enteredCAPTCHAwithstoredCAPTCHA(case-insensitive)
    if(strcasecmp($captchaInput,$_SESSION['captcha_code'])!==0)
{

        echo"<script>
            alert('IncorrectCAPTCHA.Pleasetryagain.');
            window.location.href =
'PAYMENT.html?ticketName=$ticketName&ticketPrice=$ticketPrice'
;
            </script>";
        exit;
    }


    //Insertdatainto'payments'table
    $sql="INSERTINTOpayments(fullname,ticket_name, ticket_price,
transport_mode)
        VALUES('$fullname','$ticketName','$ticketPrice',
'$transportMode')";

    if(mysqli_query($conn,$sql)){ echo
        "<script>
            alert('Payment successfully recorded!');
            window.location.href='homepage.html';
        </script>";
    }else{
        error_log("SQL Error: " . mysqli_error($conn));
        echo"Error:".$sql."<br>".mysqli_error($conn);
    }
```

```php
    mysqli_close($conn);
}
?>
```

13) CAPTCHA.PHP:

```php
<?php
session_start();

//GeneraterandomCAPTCHAcode
$captcha_code =
substr(str_shuffle("ABCDEFGHIJKLMNOPQRSTUVWXYZ012345
6789"), 0, 6);
$_SESSION['captcha_code']=$captcha_code;

//CreateCAPTCHAimage
$width=150;
$height=50;
$image=imagecreate($width,$height);

//Definecolors
$bgColor=imagecolorallocate($image,255,255,255);
$textColor=imagecolorallocate($image,0,0,0);
$lineColor=imagecolorallocate($image,64,64,64);

// Fill background
imagefill($image,0,0,$bgColor);
```

```php
//Addrandomlinesforcomplexity for
($i = 0; $i < 5; $i++) {
    imageline($image,rand(0,$width),rand(0,$height),rand(0,
$width),rand(0,$height),$lineColor);
}


//AddtheCAPTCHAtexttotheimage
$font_size=5;
$x=($width-(imagefontwidth($font_size)*strlen($captcha_code)))
/2;
$y = ($height - imagefontheight($font_size)) / 2;


imagestring($image,$font_size,$x,$y,$captcha_code,$textColor);


//Outputimage
header('Content-Type: image/png');
imagepng($image);
imagedestroy($image);
```

INPUTANDOUTPUTSCREEN

1) REGISTRATION:

Input:

The User orAdmin must first register to access the Travel Booking System. This is the registration input screen, where the user is required to enter basic information such as name, email, phone number,andpreferredusernameand password.Theusermust alsore-enter the password in the Confirm Password field. The system checks whether both passwords match. If the entries do not match, it immediatelydisplaysamessagesaying **"Passworddoesnotmatch"**, prompting the user to correct it before proceeding. Once all required fields are correctly filled, the user can click the **'Register Now'**button to successfully create their account.
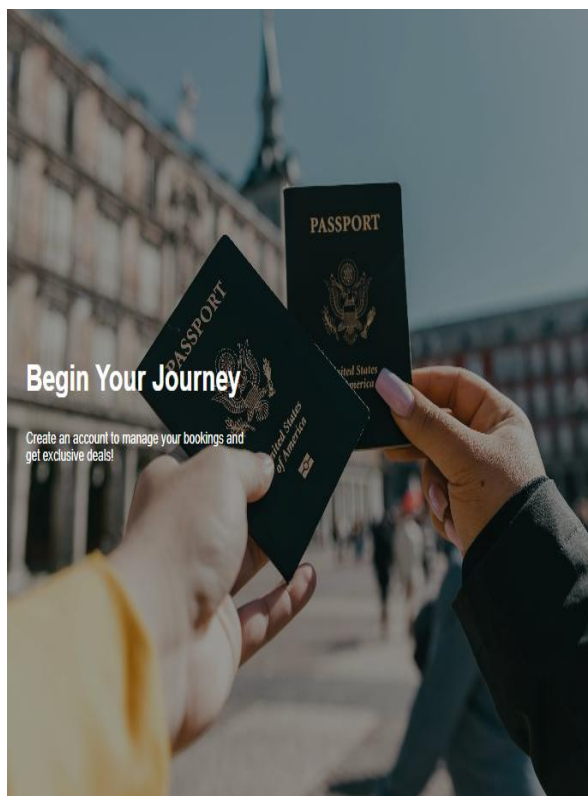
Output:

WhentheUserorAdminclickonRegister,hewillseethemessage "Registration Successful".

Registration successful!
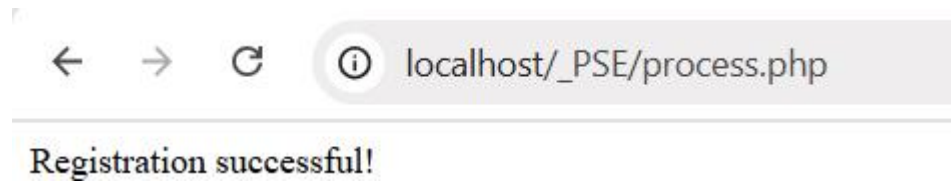
2) LOGINPAGE:

Input:

This is the Travel Booking System login form. Here the User has to enterhisUsernameandPassword.WhentheUserregisters,theemail he enter is his Username.
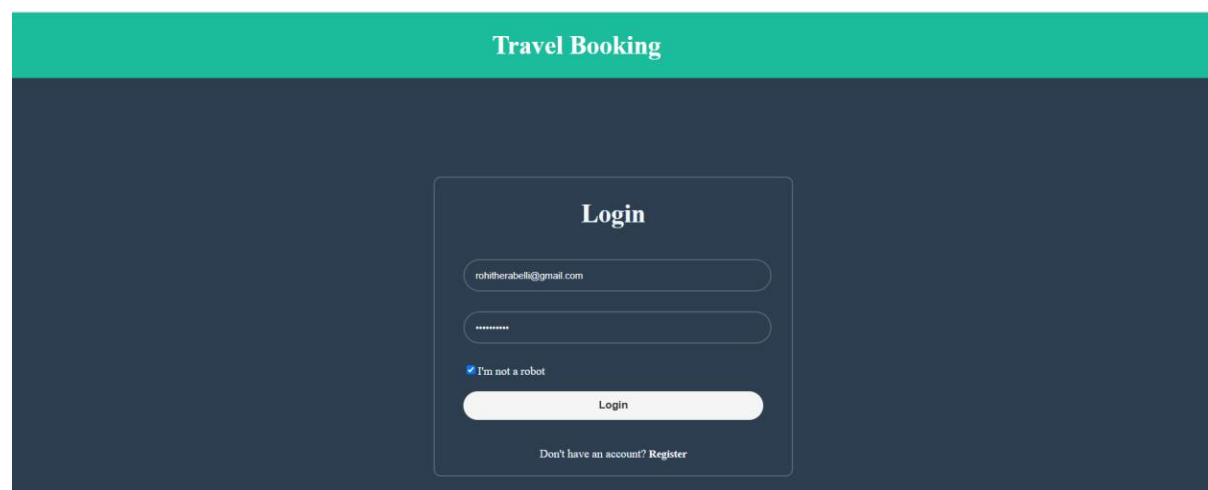
Output:

AftertheAdminenterstheirUsernameandPassword,theymustclick the **'Login'** button. The **Travel Booking System** will validate the credentials, and if they are correct, theAdmin is successfully logged in and **automatically redirected to the Home Page** of the system. If the Username or Password is incorrect, access is denied and an error message is displayed.
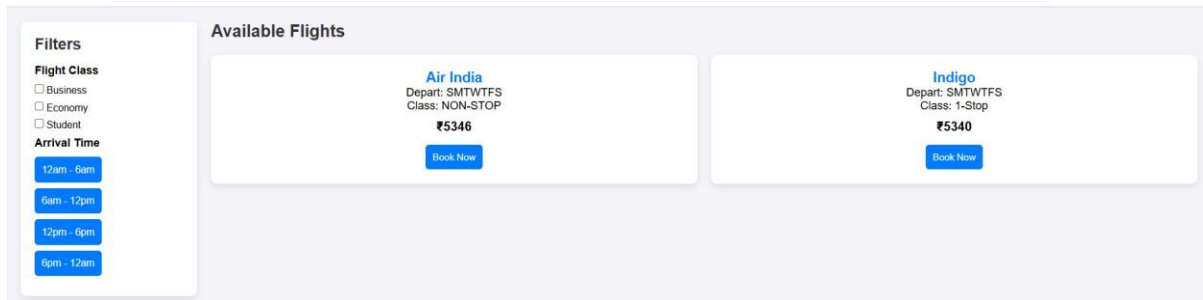
3) HOMEPAGE:

Input:

In this page User can go through the 5 different modules or travel optionstochecktheavailabilitybyenterthefrom,toanddeparture date . By clicking the Search option it redirects to respective travel mode booking page Successfully.
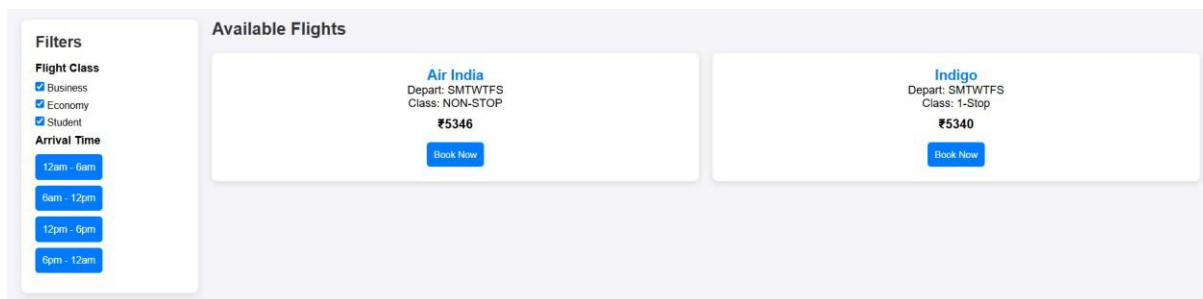

Output:

HeretheUsercanseetheavailabilityandfilterstogothrough booking easily.

4) BOOKINGPAGE:

Input:

HeretheUserhastoselectthefiltersandavailabilitytoredirectinto the payment page Successfully.

Output:

Afterselectingdesireflightandrespectivefiltterstheusercangointo paymentpage.Alongwiththistheselecteddatawill alsogetredirect into the payment page Successfully.

Complete Your Booking

Booking Summary

Ticket Type: Indigo

Price: $5,340.00

Personal Information

Full Name

Email Address

Payment Details

Card Number

1234 5678 9012 3456

Expiry Date	CVV
MM/YY	123

53D0V5 ↻

Enter CAPTCHA

Pay Now

5) PAYMENTPAGE:

Input:

Inthistheuserhastoconfirmthemodewhichhehadselectedand along with that he has to enter card number, cvv, validity date and valid captcha to confirm his/her Ticket.

Complete Your Booking

Booking Summary

Ticket Type: Indigo

Price: $5,340.00

Personal Information

Full Name

Erabe▓ Rohith

Email Address

errabe▓irohithrao@gmail.com

Payment Details

Card Number

7846 7946 1701 0131

Expiry Date	CVV
12/11	465

53D0V5 ↻
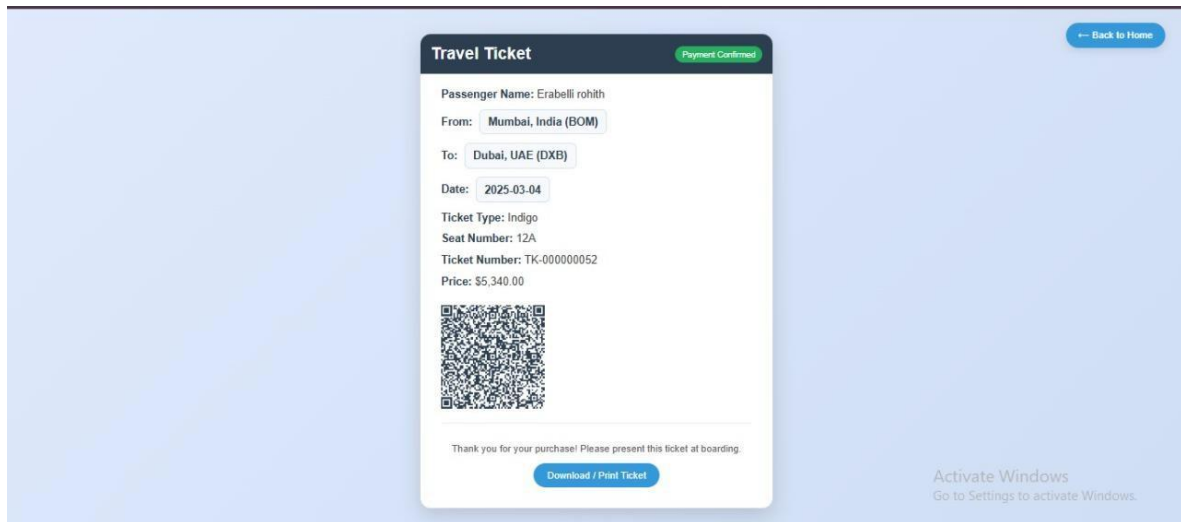
53DOV5

Pay Now

Output:

After entering the valid card details he/she can see his/her booked ticketalongwithhisname,ticketdetails,priceetc.,anditgeneratesa QR at the end.

Travel Ticket `Payment Confirmed`

Passenger Name: Erabelli rohith

From: Mumbai, India (BOM)

To: Dubai, UAE (DXB)

Date: 2025-03-04

Ticket Type: Indigo
Seat Number: 12A
Ticket Number: TK-000000052
Price: $5,340.00

Thank you for your purchase! Please present this ticket at boarding.

`Download / Print Ticket`

← Back to Home

TESTINGAND VALIDATION CHECKS

Testing

System testing of software or hardware is testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements. System testing falls within the scope of black-box testing, and as such, should require no knowledge of the inner design of thecode or logic.As a rule, system testing takes, as its input, all of the "integrated" software components that have passed integration testing and also the software system itself integrated with any applicable hardware system(s). The purpose of integration testing is to detect any inconsistencies between the software units that are integrated together (called assemblages) or between any of the assemblagesandthehardware.Systemtestingisamorelimitedtypeof testing, it seeks to detect defects both within the "inter-assemblages" and also within the system as a whole. Our Project went through two levels of testing:

1. Unit   testing

2.integrationtesting

UnitTesting:

Unittestingiscarriedoutonceamodulehasbeenfullydevelopedand reviewed.Inordertotestasinglemoduleinthetravelbookingsystem,   a complete test environment needs to be set up. This means including procedures from other modules that the tested module might call, any non-local data structures accessed by the module, and a test driver to call the functions of the module with appropriate input parameters.

1. **TestfortheAdminModule:**

   - **AdminLoginForm:**
     This formis used for the login process of an administrator. Theadminentersa usernameandpassword. Ifbothvalues

are correct, the system redirects the user to the admin dashboard. If either the username or password is incorrect, the page reloads and prompts for login again.

- **ManagingTravelServices:**
The admin can manage travel service entries such as flights,hotels,orcarrentals.Themoduleincludesoptions to add or remove listings. When the admin clicks the "Add" button, the travel service data is saved to the main database. If the "Delete" button is clicked, the respective data is removed.

- **ManagingUserAccounts:**
Theadminverifiesandapprovesuserregistrations.Only after verification will the user be able to access the booking features of the system.

2. **TestfortheCustomerLoginModule:**
   - **CustomerLoginForm:**
   This form is used by customers to log in using their registeredemailandpassword.Ifthecredentialsarevalid, the system allows access to the customer dashboard. Otherwise,theuserispromptedtore-enterthecorrect information.

   - **AccountCreation:**
   Thisformallowsnewcustomerstoregister.Iftheformis submitted without all required fields filled, the system promptstheusertocompletethemissingfields.Oncethe form is complete, the system shows a "waiting for admin approval" message, as the admin must verify the information before granting full access.

3. **TestfortheAgentLoginModule:**
   - **AgentLoginForm:**
   Agents or travel assistants log in using their assigned credentials. Upon successful login, the agent is redirected toacontrolpaneltomanageuserbookingsandassistwith

customizedtravelplans.Invalidcredentialswillresultina failedloginattempt,andtheformwillpromptforre-entry.

IntegrationTesting:

Integration testing is focused on testing how various modules interact with each other. Input is provided to see whether the modules work together without causing errors. This ensures that when one module invokes another, the communication is seamless and accurate.

For example, when a customer completes the booking process, the system needs to correctly coordinate between modules such as user authentication, travel search, booking processing, and payment confirmation. All related interfaces between these modules must be validated to ensure consistency and correctness.

Thistypeoftestingisessentialtoverifythatintegratedcomponentsof the system function as expected when connected, even if they passed their individual unit tests.

Validationchecks:

Validationtestingisperformedeitherduringthedevelopmentoratthe end, to check whether the system satisfies the functional requirements asspecified.Inatravelbookingsystem,validationtestinghelpsensure that users can perform only permitted actions, and only valid data is accepted into the system.

Theaimistoshowthatthetravelapplicationworkscorrectlyinareal- world environment and fulfills its intended use. Examples include validating booking data, user input, payment details, and action permissions based on user roles.

ValidationInputTransactions:

- Submittingincorrecttravelinformationorinvalidpersonaldetails should be detected and rejected.

- Attemptsbyunauthorizedusers(suchasanunapprovedaccount) to perform bookings should be denied.

- If the system is asked to perform an action outside of businessrules(suchasbookingforapastdate),itmustblocktheoperati on.

ValidationInputData:

It is crucial that both the data and the requested transaction are valid. Input validation should be enforced by the website or mobile applicationinterfaceto reduceerrorsandensuredataquality.Thiscan include:

1. Testing for missing or empty fields in forms such as booking or registration.

2. Ensuring each field meets the expected length (e.g., card numbers, phone numbers).

3. Validating that entered data falls within acceptable ranges (e.g., number of travelers must be more than zero).

4. Comparing inputs with stored data to ensure consistency (e.g.,verifying that a destination city exists in the system).

This type of testing helps maintain data integrity and enhances the reliability and security of the travel booking system.

SYSTEMSE CURITYME ASURES

SystemSecurity Measures

Security of a computer system is a crucial task. It is a process of ensuring confidentiality A system is said to be secure if its resources are used and accessed as intended under all the circumstances, but no system can guarantee absolute security from several of the various threats and unauthorized access.

Securitymeasureswillbetaken:

Strongpasswords:

This first measure is taken that users may use special characters in their passwords and password get strong

Confidentiality:

Ifanyusersaresharingtheirpersonaldetailsinloginformitwillbe secure safely as only users can access such information.

HiddenPassword:

Wheneveruserinputthepasswordinloginform,thenpasswordshow in (Asterisk) format.

IMPLEMENTATION,E VALUTIONANDMAIN TENANCE

Implementation

The design of a management information system may seem to managernenttobeanexpensiveproject,thecostofgettingtheMISon linesatisfactorilymayoftenbecomparabletothatofitsdesign,andthe implementation has been accomplished when the outputs of the MIS arecontinuouslyutilizedbydecisionmakers.Oncethedesignhasbeen completed, there are four basic methods for implementing the MIS

Thesearefollowing

1. Installthesysteminanewoperationororganization.

2. Cutofftheoldsystemandinstallthenew:

This produces a time gap during which no system is in operation. Practically, installation requites one or two days for small companies or small systems.

3. Cutoverbysegments:

Thismethodisalsoreferredasphasinginthenewsystem.Smallparts or subsystems are substituted for the old. In the case of upgrading old systems, this may be a very desirable method

4. Operateinparallelandcutover:

The new system is installed and operated in parallel with the current system until in has been checked out, then only the current system is cutout.Thismethodisexpensivebecauseofpersonalandrelatedcosts. Its big advantages are that the system is fairly well debuggod when it becomes the essential information system

Evolution

After the MIS has been operating smoothly for a short period of time, an evaluation of each step in the design and of the final system performanceshouldbemade.Evaluationshouldnotbedelayedbeyond the time when the system's analysts have completed most of the debugging. The longer the delay, the more difficult it will be for designertorememberimportantdetails.Theevaluationshouldbemade by the customer as well as by the designers

Maintenance

Control and maintenance of the system are the responsibilities of the line managers. Control of the systems means the operation of the system as it was designed to operate. Sometimes, well-intentioned people or operators may make unauthorized changes to improve the system, changes that are not approved or documented. Maintenance is closely related to control. Maintenance is that ongoing activity that keeps the MIS at the highest levels of effectiveness and efficiency within cost constraints. Maintenance is directed towards reducing errorsduetodesign,reducingerrorsduetoenvironmentalchangesand improving theystem's scope and services.

FUTURESCOPEOFP ROJECT

FUTURESCOPEOFPROJECT

Our web-based application **"Travel Booking System"** currently providesessentialfunctionalitiesforuserssuchas**Admins,Customers (Travelers),andTravelAgents**.Atpresent,thesystemincludesbasic moduleslike **UserRegistration**,**Login**,**Flight,Cabs,Trains,Buses, and Hotel Booking**, and **Payment Processing**. However, there is significant potential for expansion and enhancement in the future.

Inupcomingversionsofourapplication,weaimto **addmorecontent and features for each user category**. For example, we plan to introduce modules for **Travel Guides**, **Tour Packages**, and **Local Experiences** that can be booked directly through the platform. This willenrichtheuserexperienceandprovidemorevaluetobothtravelers and agents.

We will also **improve the graphical user interface (GUI)** by incorporating more high-quality images and visual elements related to travel destinations, hotel previews, and booking summaries. This will help in making the application more visually appealing and engaging, so that users do not feel bored while using it.

Toenhanceaccessibility,wewillcontinuetoprovide **loginIDsforall users** so that they can access the system from anywhere using their credentials. In future updates, we may also integrate **multi-device compatibility** to ensure smooth performance on both desktop and mobile platforms.

Some**majorfeatures**weplantointroduceinclude:

- **PackageReservationSystem**forcuratedtravelbundles(flight +cab+train+bus+hotel).

- **DynamicPricingandReal-TimeSeatAvailability**.

- **Integrationwithmapsforrouteplanningandlocalguides**.

We are committed to **researching more into this domain** and will continuetoenhanceourapplicationbasedonuserfeedbackandmarket trends.OurgoalistomaketheTravelBookingSystemnotjust

functional,butalsoenjoyable,seamless,andhighlyefficientforall types of users.

CONCLUSION

CONCLUSION:

The Travel Booking System enables users to efficiently manage and book travel-related services such as flights, hotels, and transportation. This web-based application allows for the secure storage and processing of customer details, travel data, and booking records. The system is designed to handle frequent and high-volume transactions while maintaining stability and performance over time.

By implementingthis system,travel agenciesand individualusers can significantly reduce manual data entry efforts, minimize errors, and save time. Additionally, the system provides instant confirmations, status updates, and comprehensive reports that help improve decision-making and enhance user satisfaction. Overall, the Travel Booking System offers a user-friendly and reliable platform that supports seamless and convenient travel planning and management.

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A

Project Synopsis

On

"Travelbookingmanagementsystem"

Submittedto
Prof.Dr . Hussain Syed

VELLOREINSTITUTEOF TECHNOLOGY, ANDHRA PRADESH(UNIVERSITY)

Submittedby
Erabelli Rohith (23MIS7220)

1. Introduction:

Travel Booking System is a web-based application developed to manageandstreamlinetheprocessofbookingtravelservicessuchas flights, buses, trains, or holiday packages.
Thisprojectprovidesuserswithdetailedinformationaboutavailable travel options.
It allows customers to search,book,and can cel tickets online with ease. Administratorscanmanageuserdata,bookingrecords,andupdate travel listings in real-time.

2. Objectives of the Project:(Writeonly5points)

- Toprovideaneasyanduser-friendlyinterfaceforbookingtravel tickets online.

- Tomanage and maintain booking records,user profiles,and travel schedules efficiently.

- Tominimizemanualworkandpaperworkbyautomatingthe travel booking process.

- Toenableuserstoviewavailabletraveloptionsbasedondate, location, and type.

- Toofferasecureloginsystemforbothusersandadministrators to access personalized features.

3. ProjectCategory:Web-basedapplication

4. Tools/Platform/Languagestobeused:

HTML,CSS,JavaScriptforfront-enddevelopment PHP
for server-side scripting
MySQLfordatabasemanagement

5. ScopeofFutureApplication:(Write4to5points)

- Integrationofpaymentgatewaysforsecureandseamlessonline transactions.

- Real-timenotificationsandalertsforbookingconfirmationsand travel updates.

- Expansiontoincludehotelbookings,tourguides,andlocal transport services.

- Implementation of are commendation system based on user travel history.

- Mobileapplicationdevelopmenttoincreaseaccessibilityand user engagement.

Submitted by,   Approved by,

Prof . Dr . Hussain Syed

Erabelli Rohith