VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", MACHHE, BELAGAVI-590018

DBMS LABORATORY WITH MINI PROJECT- (21CSL55) REPORT on

TRAVELLING AGENCY MANAGEMENT SYSTEM

Submitted in partial fulfilment of the requirements for the V semester

Bachelor of Engineering

in

INFORMATION SCIENCE AND ENGINEERING

Submitted by

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2023-2024

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

CERTIFICATE

Certified that **RAMPRASAD BHARADWAJ S N, SHREYAS K A, VARUN K S, POORNA NANDA** bearing USN **1CD21IS130, 1CD21IS151, 1CD21IS175, 1CD22IS408** respectively are bonafide student of **Cambridge Institute of Technology,** has successfully completed the **DBMS LABORATORY WITH MINI PROJECT** entitled "**TRAVELLING AGENCY MANAGEMENT SYSTEM**" in partial fulfillment of the requirements for V semester **Bachelor of Engineering** in **Information Science and Engineering** of **Visvesvaraya Technological University, Belagavi** during academic year **2023-2024**. It is certified that all Corrections/Suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering degree.

Signature of Guide	**Signature of the HOD**
Prof. Sudarsanan D , Prof. Navya Reddy	**Dr. Preethi S**

Examiners

Name of the Examiners	**Signature with Date**
1. _____	_____
2. _____	_____

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ABSTRACT

TOURS AND TRAVELS

The Enhanced Tour Management System is a transformative project designed to elevate traditional tours and travel services without relying on artificial intelligence. This solution focuses on optimizing the travel experience through strategic planning, efficient logistics, and enhanced user engagement. Key features include personalized itineraries tailored to user preferences, dynamic pricing models for flexible travel packages, and real-time navigation for seamless journeys. The system encourages social connectivity by facilitating user-generated content sharing and recommendations within the platform. Emphasizing data security, the project incorporates robust encryption methods to safeguard user information. Continuous improvement is achieved through user feedback mechanisms and responsive adaptation to evolving travel trends, offering a practical and advanced approach to tours and travel management.

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CHAPTER 1

INTRODUCTION

Welcome to PRSV travels, a beacon of excellence in the world of travel. As a seasoned and reputable player in the tours and travel industry, we pride ourselves on offering a distinctive fusion of time-honored service values and contemporary solutions that redefine the travel experience.

Founded on the principles of reliability, customer satisfaction, and innovation, PRSV travels has emerged as a trusted partner for discerning travelers seeking exceptional journeys. Our journey began with a commitment to transforming travel into a personalized, memorable, and seamless adventure.

At the heart of our company is a dynamic team of travel enthusiasts and seasoned professionals who share a collective passion for exploration. This passion fuels our dedication to curate meticulously crafted itineraries that cater to a diverse range of tastes, preferences, and travel aspirations. We believe that every journey is a narrative waiting to unfold, and we take pride in being the architects of these unforgettable stories.

Our commitment to customer-centricity, transparency, and unwavering quality underscores every interaction with PRSV travels. Whether you are embarking on a solo escapade, planning a family retreat, or organizing a corporate event, our versatile range of services ensures that your travel experience is tailored to meet your unique needs and expectations.

As we navigate the ever-evolving landscape of the travel industry, PRSV travels remains anchored in the principles that have defined our success. Integrity, innovation, and an authentic passion for exploration drive us forward, ensuring that every destination

Join us at PRSV travels and embark on a journey where every step is a discovery, every moment is crafted with care, and every destination is an opportunity for adventure. Explore the world with confidence, convenience, and the assurance that your travel dreams are in the hands of experts. Your journey of a lifetime begins here with PRSV travels.

CHAPTER 2

SYSTEM ANALYSIS

Literature Survey:

The literature analysis for our tours and travel management company involves exploring relevant studies, articles, and industry reports that shed light on key aspects of the tours and travel sector. Below are some potential themes and areas to focus on in your literature analysis:

- Travel Industry Trends:Explore literature on recent and emerging trends in the travel industry, such as the impact of technology, changing consumer pref erences, and the role of sustainability in travel.
- Customer Experience in Travel:Review studies on customer experience in the travel sector, including factors influencing traveler satisfaction, the importance of personalization, and the role of customer feedback in service improvement.
- Technology in Travel Management:Examine literature discussing the integration of technology in travel management, including the use of AI, mobile applications, and data analytics to enhance the overall travel experience.
- Online Booking and Reservation Systems:Investigate studies on online booking systems, their evolution, and the impact of user interfaces on customer decision-making. Analyze the literature for best practices in creating efficient and user-friendly booking platforms.

- Data Security and Privacy in Travel:Review studies on data security and privacy concerns in the travel industry, considering the implications of handling sensitive customer information and the measures taken to protect it.

- Marketing and Branding in Travel:Analyze literature related to travel marketing strategies, branding in the travel sector, and the role of digital marketing channels in reaching and engaging with target audiences.
- Impact of External Factors on Travel:Investigate studies that discuss the impact of external factors such as economic conditions, political events, and public health crises on the travel industry.
- Community Engagement and Social Integration:Explore literature on the benefits and challenges of integrating social features into travel platforms, including user-generated content, community engagement, and the role of social media in travel marketing.
- Sustainable Tourism: Investigate studies focused on sustainable tourism practices, eco-friendly initiatives, and the role of travel companies in promoting responsible and environmentally conscious travel.

By conducting a thorough literature analysis across these themes, your travel management company can gain valuable insights, identify best practices, and stay informed about industry trends, ultimately contributing to the strategic development and success of your business.

Proposed System

- ## Scope of the Project:

The project focuses on developing and implementing a Travel Management System with the following key aspects:

1. User-Focused Features:

- Intuitive Itinerary Planning:** Users can create personalized travel itineraries with optimized routes and activities.

- Dynamic Pricing and Package Customization:** The system supports dynamic pricing and allows users to customize travel packages.

2. Administrator Module:

- Centralized dashboard for efficient management of travel requests, approvals, and expenses.

- Analytics and reporting tools for insights into travel expenses and trends.

3. End-User Module:

- User-friendly website and mobile app for easy booking, reservations, and payments.

- Customer support and feedback mechanisms for an enhanced user experience.

4. Technological Stack:

- Utilization of a versatile technological stack, including web development tools, backend frameworks, databases, and secure APIs.

Aim of the Project

The aim of the PRSV-Travel Management System is to project is to develop and implement an efficient, user-friendly platform that revolutionizes the end-to-end travel experience. This system is designed to cater to the needs of users, administrators, and travelers, offering features such as intuitive itinerary planning, dynamic pricing, and real-time navigation. The primary goals include enhancing user experience, optimizing travel operations, incorporating advanced technologies, promoting social connectivity, ensuring security and compliance, facilitating continuous improvement, and positioning the company as an industry leader. Through these objectives, the project seeks to differentiate the company by delivering innovative, user-centric solutions and setting a high standard for quality and efficiency in the dynamic travel management sector.

CHAPTER 3

REQUIREMENT SPECIFICATIONS

- **Hardware Configuration:**

The section of hardware configuration is an important task related to the software development insufficient random access memory may affect adversely on the speed and efficiency of the entire system. The process should be powerful to handle the entire operations. The hard disk should have sufficient capacity to store the file and application

Processor: Intel Pentium T4200 Intel Core Duo 2.0 GHz/more

RAM Minimum 4 GB RAM capacity

Hard disk: Minimum 126 GB ROM capacity

Cache Memory: L2-1 MB

- **Software Configuration:**

A major element in building a system is the section of compatible software since the software in the market is experiencing in geometric progression. Selected software should be acceptable by the firm and one user as well as it should be feasible for the system. This document gives a detailed description of the software requirement specification.

Front End: HTML, CSS, Java Script.

Frame Work: Python-Django and required dependencies.

Back End: My SQL, Data Base.

Operation System: Windows 7 Or Windows 8.1 Or Windows 10.

Client side: Android, Windows, IOS, MacOS.

- **Development Environment:**

Visual Studio Code

CHAPTER 4

SYSTEM DESIGN

ER Diagram:

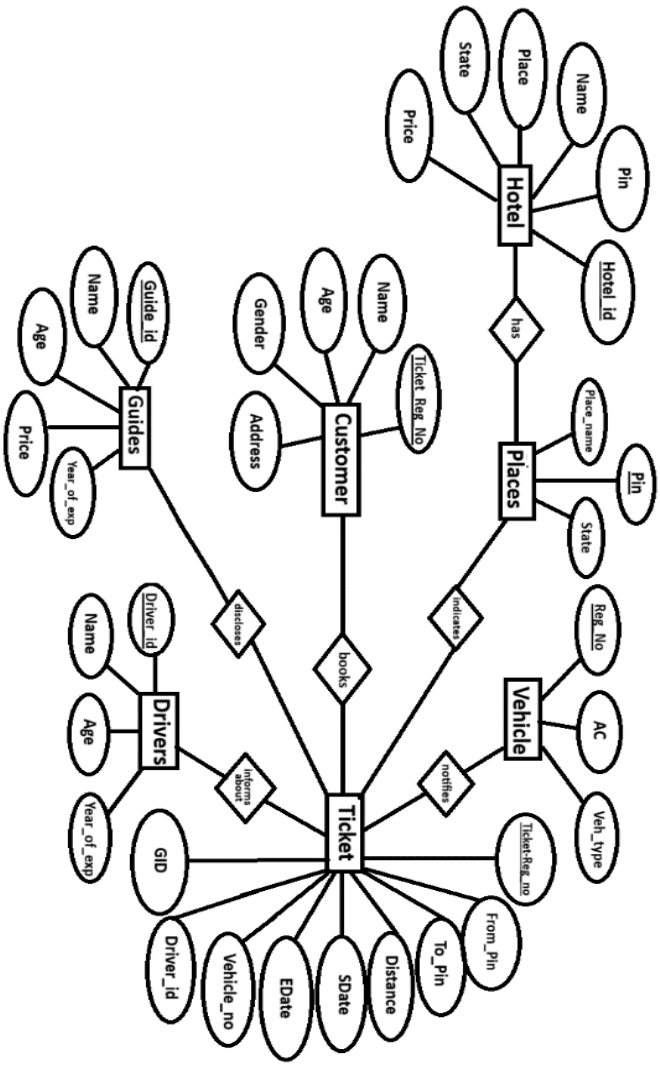

Fig 4.1 ER Diagram Of Travel Agency Management System

Schema Diagram:

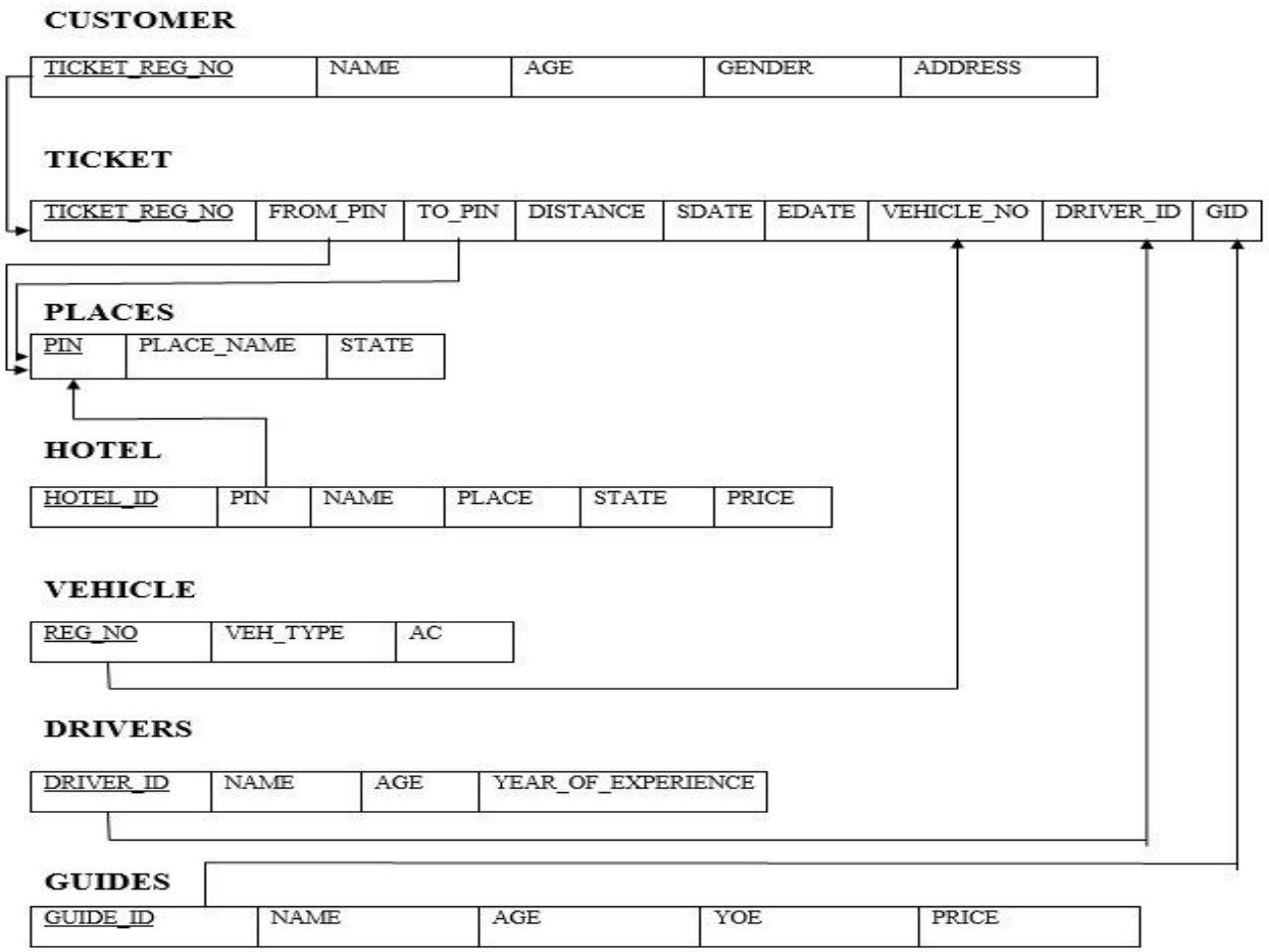

Fig 4.2 Schema Diagram for Travel Agency Management System

CHAPTER 5

SYSTEM IMPLEMENTION

TABLES:

```
    migrations.CreateModel(
     name='Admin',
     fields=[
        ('uid', models.IntegerField(primary_key=True, serialize=False)),
        ('username', models.CharField(max_length=25)),
        ('password', models.CharField(max_length=25)),
     ],
  ),

  migrations.CreateModel(
     name='Drivers',
     fields=[
        ('id', models.IntegerField(primary_key=True, serialize=False)),
        ('name', models.CharField(max_length=30)),
        ('age', models.IntegerField()),
        ('yoe', models.IntegerField()),
        ('price', models.IntegerField()),
     ],
  ),
  migrations.CreateModel(
     name='Guides',
     fields=[
```

```
            ('id', models.IntegerField(primary_key=True, serialize=False)),
            ('name', models.CharField(max_length=30)),
            ('age', models.IntegerField()),                ('yoe', models.IntegerField()),
            ('price', models.IntegerField()),
        ],
    ),
    migrations.CreateModel(
        name='Places',
        fields=[
            ('pin', models.IntegerField(primary_key=True, serialize=False)),
            ('place_name', models.CharField(max_length=30)),
            ('state', models.CharField(max_length=30)),
        ],
    ),
    migrations.CreateModel(
        name='Vehicles',
        fields=[
            ('reg_no', models.IntegerField(primary_key=True, serialize=False)),
            ('name', models.CharField(max_length=30)),
            ('ac', models.BooleanField()),
        ],
    ),
    migrations.CreateModel(
        name='Hotels',
        fields=[
            ('id_hotel', models.IntegerField(primary_key=True, serialize=False)),
            ('pin', models.IntegerField()),
```

```
            ('name', models.CharField(max_length=30)),
            ('place_name', models.CharField(max_length=30)),
            ('state', models.CharField(max_length=30)),
            ('price', models.IntegerField()),
            ('fk_hot_pla',
models.ForeignKey(on_delete=django.db.models.deletion.CASCADE,
to='PRSV_APP.places')),
        ],
    ),
    migrations.CreateModel(
        name='Ticket',
        fields=[
            ('ticket_reg_no', models.CharField(max_length=5, primary_key=True,
serialize=False)),
            ('from_place', models.CharField(max_length=30)),
            ('to_place', models.CharField(max_length=30)),
            ('distance', models.IntegerField()),
            ('sdate', models.DateField()),
            ('edate', models.DateField()),
            ('veh_reg_no', models.IntegerField()),
            ('dri_id', models.IntegerField()),
            ('gui_id', models.IntegerField()),
        ],
    ),
    migrations.CreateModel(
        name='Customer',
        fields=[
```

```
            ('id', models.BigAutoField(auto_created=True, primary_key=True,
serialize=False, verbose_name='ID')),
            ('ticket_reg_no', models.CharField(max_length=5)),
            ('name', models.CharField(max_length=25)),
            ('age', models.IntegerField()),
            ('gender', models.CharField(max_length=1)),
            ('address', models.CharField(max_length=30)),
            ('fk_customer',
models.ForeignKey(on_delete=django.db.models.deletion.CASCADE,
to='PRSV_APP.ticket')),],),]
```

5.2 Queries

```
    migrations.RenameField(
        model_name='customer',
        old_name='name',
        new_name='fname',
    ),
    migrations.AddField(
        model_name='customer',
        name='lname',
        field=models.CharField(default='', max_length=25),
        preserve_default=False,
    ),
```

CHAPTER 6

SNAPSHOTS

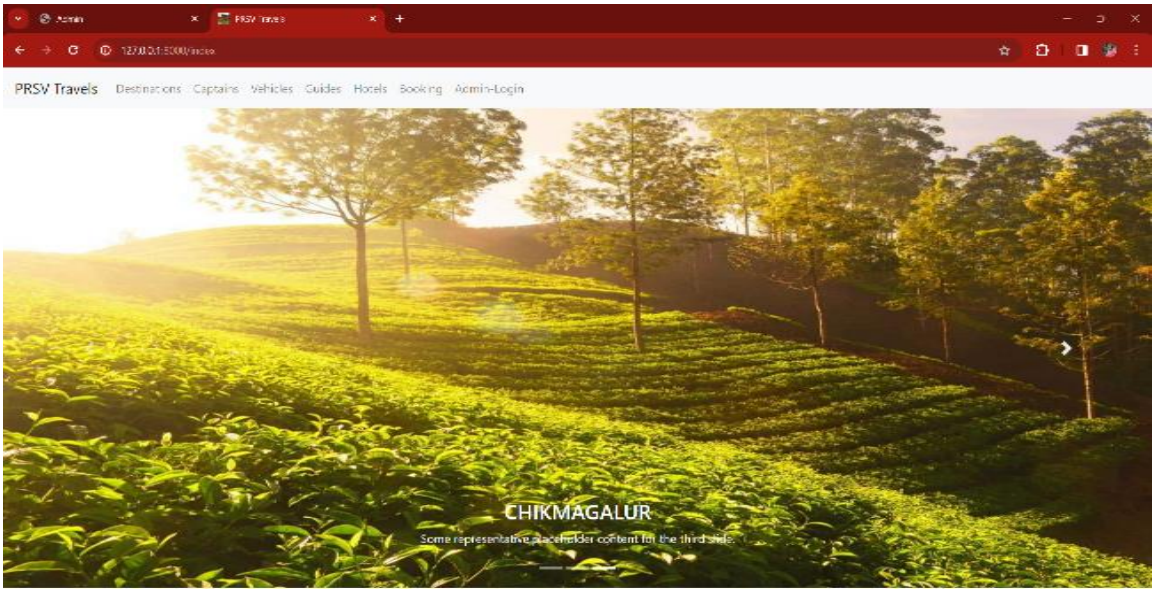

Fig 6.1 Home Page

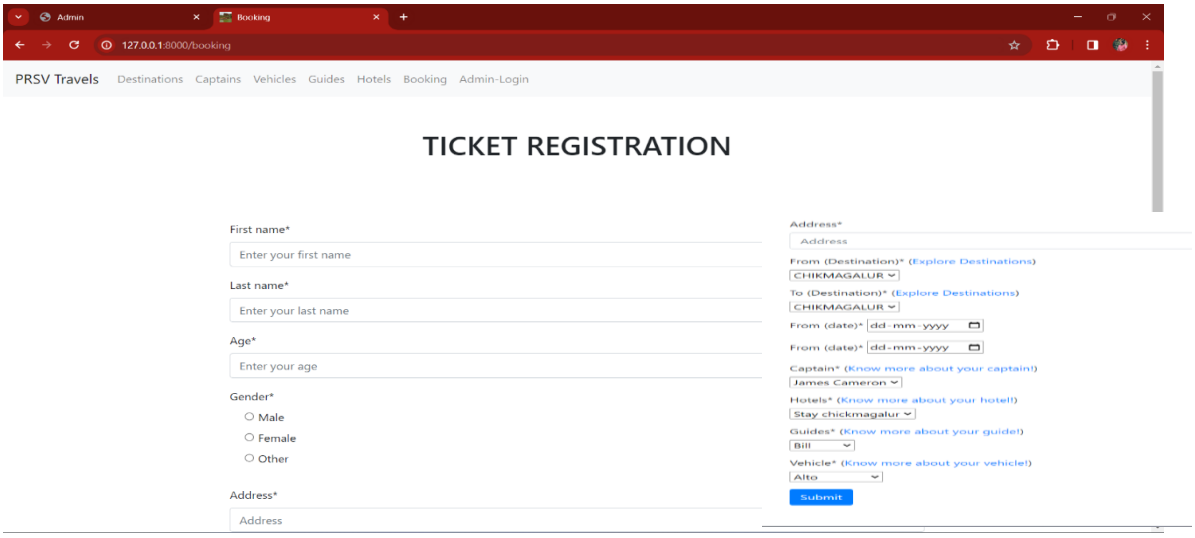

Fig 6.2 Registration page

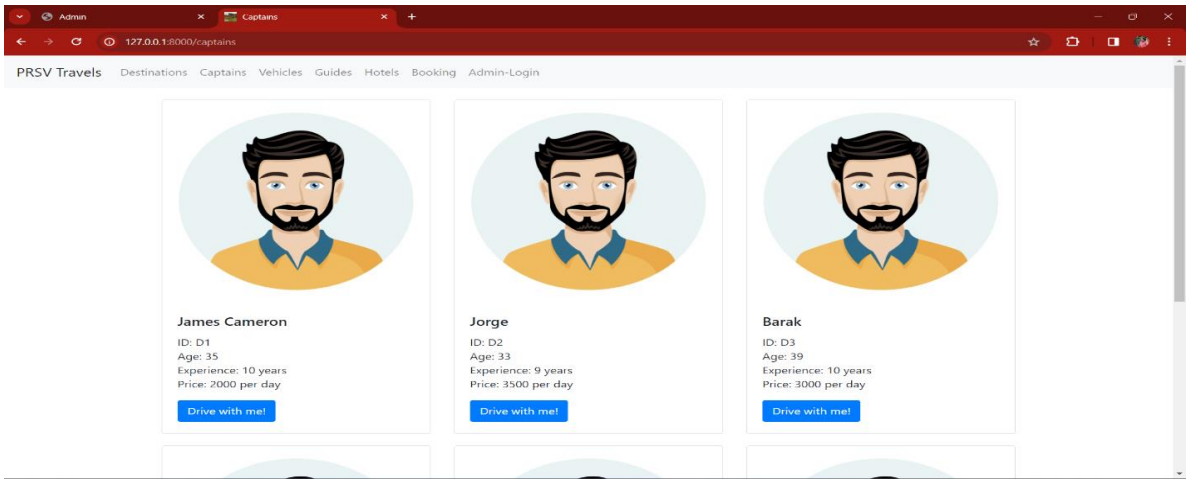

Fig 6.3 Captains Page

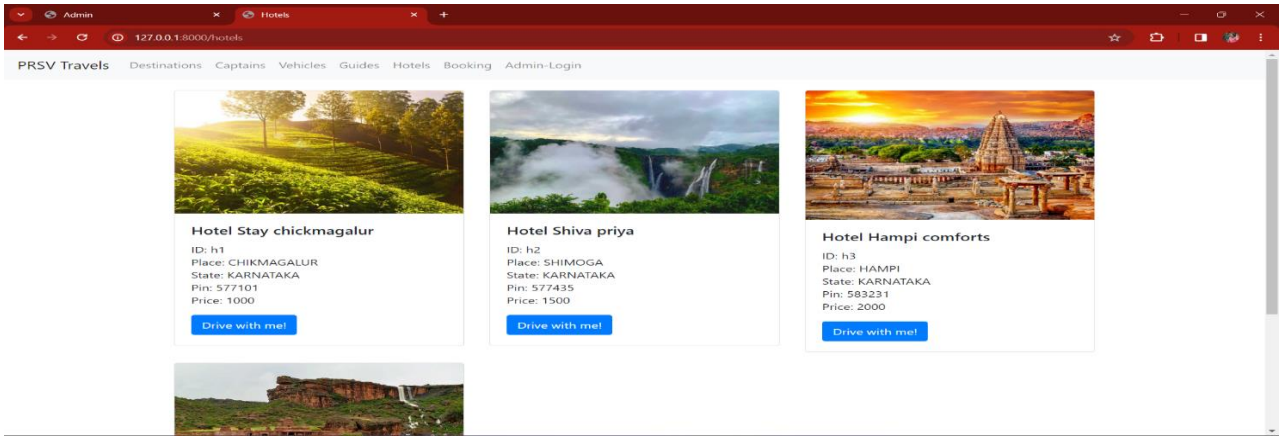

Fig 6.4 Destinations Page

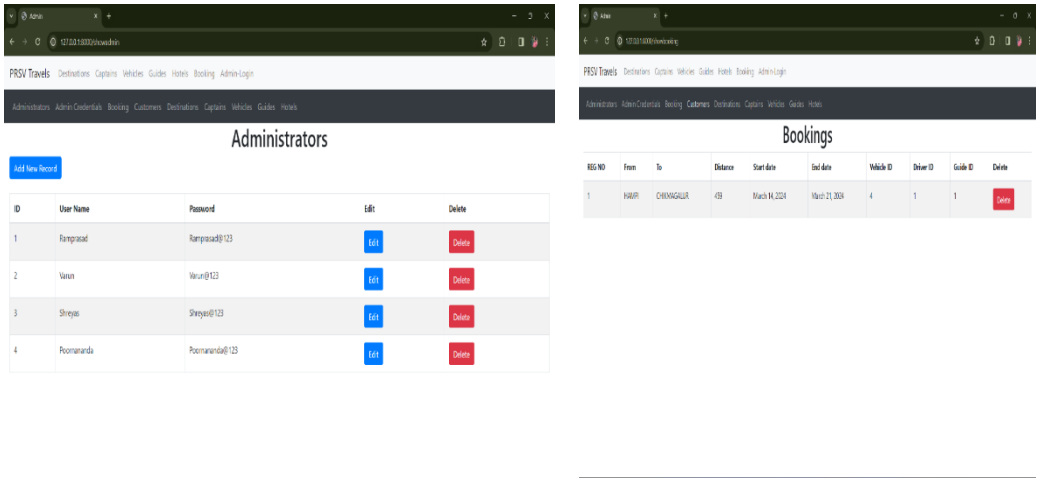

Fig 6.5 Admin Login Page

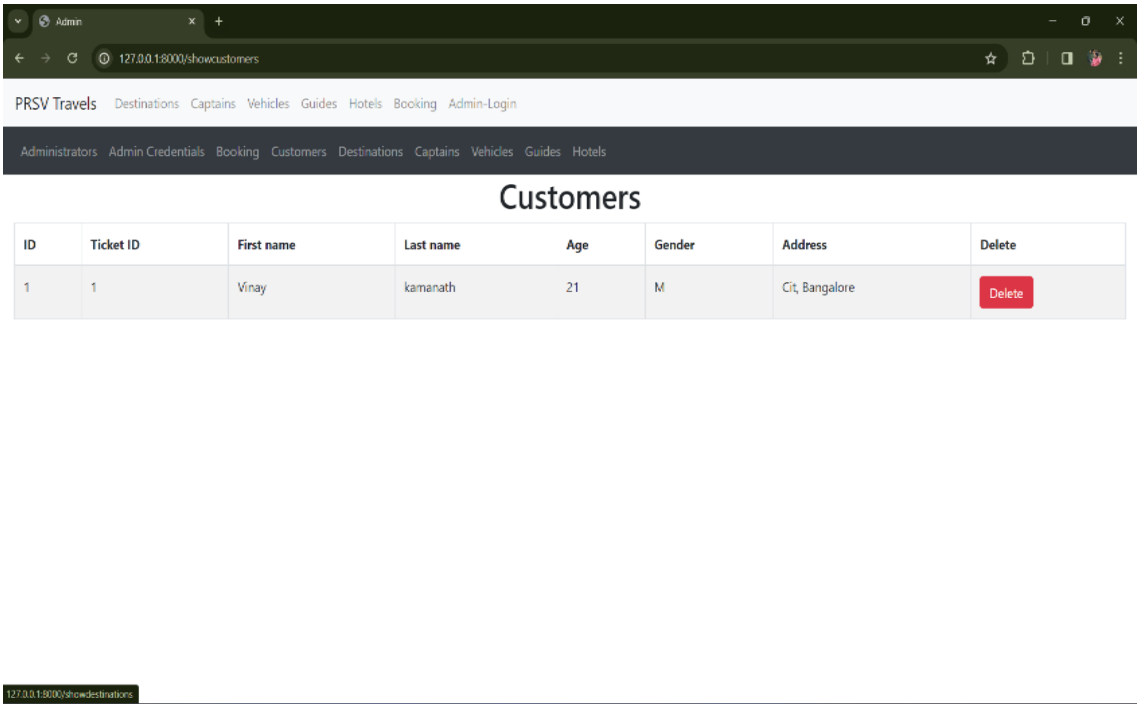

Fig 6.6 Customer page

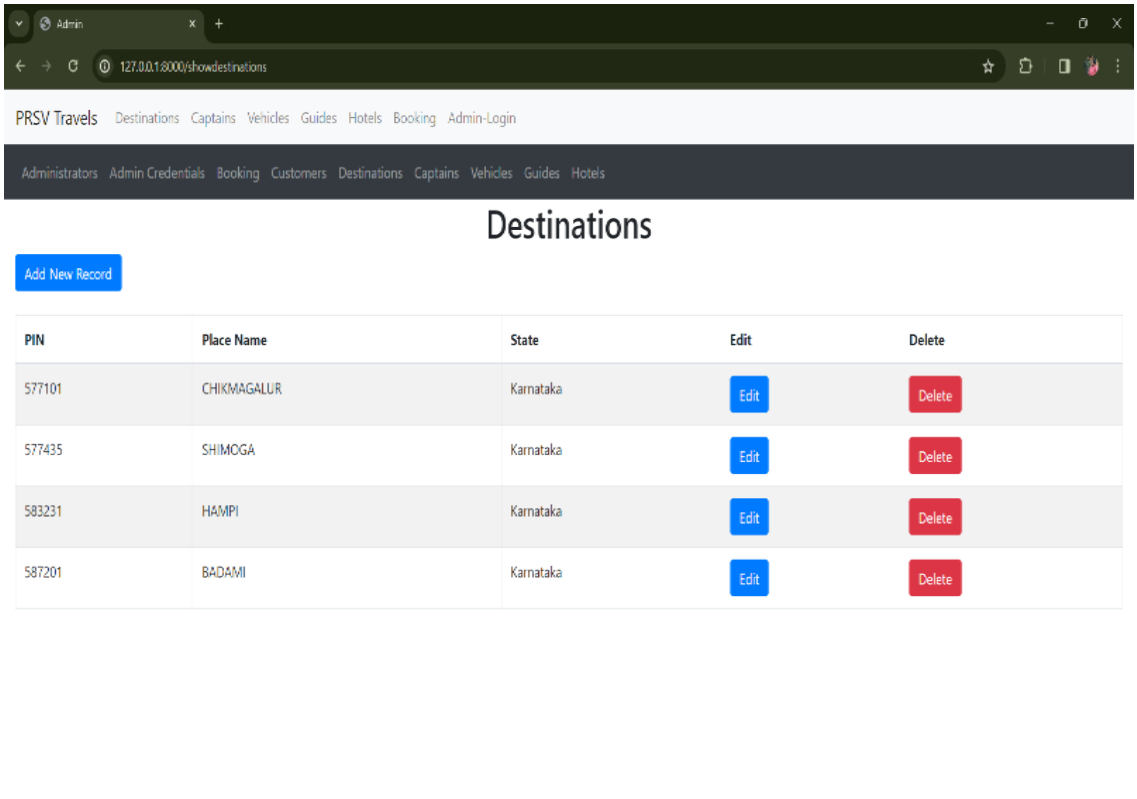

Fig 6.7 Destinations

```
mysql> show tables;
+-----------------------------+
| Tables_in_prsv_travels      |
+-----------------------------+
| auth_group                  |
| auth_group_permissions      |
| auth_permission             |
| auth_user                   |
| auth_user_groups            |
| auth_user_user_permissions  |
| customer                    |
| django_admin_log            |
| django_content_type         |
| django_migrations           |
| django_session              |
| drivers                     |
| guides                      |
| hotels                      |
| places                      |
| ticket                      |
| vehicle                     |
+-----------------------------+
17 rows in set (0.05 sec)
```

```
mysql> desc places;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| pin        | int         | NO   | PRI | NULL    |       |
| place_name | varchar(30) | NO   |     | NULL    |       |
| state      | varchar(30) | NO   |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
3 rows in set (0.04 sec)

mysql> desc hotels;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| id_hotel     | int         | NO   | PRI | NULL    |       |
| pin          | int         | NO   |     | NULL    |       |
| name         | varchar(30) | NO   |     | NULL    |       |
| place_name   | varchar(30) | NO   |     | NULL    |       |
| state        | varchar(30) | NO   |     | NULL    |       |
| price        | int         | NO   |     | NULL    |       |
| fk_hot_pla_id | int        | NO   | MUL | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
7 rows in set (0.02 sec)

mysql> desc vehicle;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| reg_no | int         | NO   | PRI | NULL    |       |
| name   | varchar(30) | NO   |     | NULL    |       |
| ac     | tinyint(1)  | NO   |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
3 rows in set (0.05 sec)
```

```
mysql> desc drivers;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| id    | int         | NO   | PRI | NULL    |       |
| name  | varchar(30) | NO   |     | NULL    |       |
| age   | int         | NO   |     | NULL    |       |
| yoe   | int         | NO   |     | NULL    |       |
| price | int         | NO   |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
5 rows in set (0.01 sec)

mysql> desc guides;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| id    | int         | NO   | PRI | NULL    |       |
| name  | varchar(30) | NO   |     | NULL    |       |
| age   | int         | NO   |     | NULL    |       |
| yoe   | int         | NO   |     | NULL    |       |
| price | int         | NO   |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
5 rows in set (0.01 sec)
```

```
mysql> desc customer;
+---------------+-------------+------+-----+---------+----------------+
| Field         | Type        | Null | Key | Default | Extra          |
+---------------+-------------+------+-----+---------+----------------+
| id            | bigint      | NO   | PRI | NULL    | auto_increment |
| ticket_reg_no | varchar(5)  | NO   |     | NULL    |                |
| name          | varchar(25) | NO   |     | NULL    |                |
| age           | int         | NO   |     | NULL    |                |
| gender        | varchar(1)  | NO   |     | NULL    |                |
| address       | varchar(30) | NO   |     | NULL    |                |
| fk_customer_id | varchar(5) | NO   | MUL | NULL    |                |
+---------------+-------------+------+-----+---------+----------------+
7 rows in set (0.00 sec)

mysql> desc ticket;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| ticket_reg_no | varchar(5)  | NO   | PRI | NULL    |       |
| from_place    | varchar(30) | NO   |     | NULL    |       |
| to_place      | varchar(30) | NO   |     | NULL    |       |
| distance      | int         | NO   |     | NULL    |       |
| sdate         | date        | NO   |     | NULL    |       |
| edate         | date        | NO   |     | NULL    |       |
| veh_reg_no    | int         | NO   |     | NULL    |       |
| dri_id        | int         | NO   |     | NULL    |       |
| gui_id        | int         | NO   |     | NULL    |       |
| fk_tic_dri_id | int         | NO   | MUL | NULL    |       |
| fk_tic_gui_id | int         | NO   | MUL | NULL    |       |
| fk_tic_pla_id | int         | NO   | MUL | NULL    |       |
| fk_tic_veh_id | int         | NO   | MUL | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
13 rows in set (0.00 sec)
```

Fig 6.8 Tables in Database

CONCLUSION AND FUTURE ENHANCEMENT

In conclusion, the Travel Management System project aims to elevate the travel experience for users, administrators, and travellers alike. By incorporating intuitive features such as personalized itinerary planning, dynamic pricing, and real-time navigation, the system is poised to bring efficiency and user-centricity to the forefront of travel management. The focus on security, compliance, and continuous improvement reflects our commitment to delivering a reliable and evolving solution.

Future Enhancements:

To stay ahead in the ever-evolving travel landscape, future enhancements for the Travel Management System could include:

1. Integration of Emerging Technologies:

- Explore and integrate emerging technologies such as augmented reality (AR) or virtual reality (VR) for enhanced user experiences and interactive travel previews.

2. Advanced Analytics and Predictive Modelling:

- Enhance the analytics module to include advanced data analytics and predictive modelling, allowing for more accurate trend predictions and personalized recommendations.

3. Blockchain for Secure Transactions:

- Investigate the integration of blockchain technology to ensure secure and transparent financial transactions, adding an extra layer of trust for users.

4. Global Expansion and Multilingual Support:

- Expand the system's reach by incorporating multilingual support and integrating with local

5. Green Travel Initiatives:

- Introduce features promoting sustainable and eco-friendly travel, such as carbon footprint calculations or recommendations for eco-conscious accommodations. These future enhancements aim to not only keep the Travel Management System at the forefront of industry trends but also to exceed user expectations, ensuring the continued success and relevance of the platform in the competitive travel market.

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  - For professional research documents and Data researches.
- **AI tools**
  - Chat GPT from Open AI.
  - Gemini from Google

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