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ABSTRACT



In the era of digital connectivity and fast-paced lifestyles, individuals are increasingly seeking efficient and hassle-free solutions to plan their travel experiences. While several travel planning apps are available, there is still a gap in providing a seamless and personalized experience for users. The challenge is to develop an app that addresses modern travelers' pain points and revolutionizes how people plan, book, and experience their journeys. To execute this, a database of the users will be created (a new user will have to sign up, and an existing user will log in to their account) using MySQL. We plan to have entities for End Users, Transport and Accommodation.

We plan to offer an interactive user friendly application that addresses all travel related issues. In this, users can login to their account or create their account by providing details so they can book rides, etc. The application's front end would be created using HTML, CSS .The application's back end is developed using Python, MySQL and Django.

STAKEHOLDERS AND THEIR ROLES

Users

The users can use our apps to view trains and flights from various source locations to final destinations .They can book multiple tickets , view lounges offered and along with all this , they will have access to hotel buying capilities and can get huge discounts via holiday packages .

Hotels

The hotels can provide their services to the end consumer through our application and enroll themselves in holiday packages as a means of increasing revenue .

Flights

Flights will also be listed on our sites and we provide the capabilities to the consumer to buy tickets to the flights available of their choice

Trains

The users can buy tickets to train whose start_location , end_location and the date of journey can be accessed to our website .We also provide payment gateway for the ease of customer to purchase tickets .

Lounges

The users can avail massive discounts on lounges at airports using special offer codes available through our application

ENTITY RELATIONSHIPS

Entities are the objects that are represented in the database. They are (usually) the real-world objects that are being modeled. How entities interact with each other is governed by the relationships among them. Relational diagrams for the database design can be found in the Progress Report for the project.

Entity : User

User(User_ID , Name, Email, Phone No., Age(D.O.B , Year), Sex, Address(House No. , Address_City , Address_PIN))

Entity : Hotels

Hotels(Hotel_ID, Vacancy(Total , Filled) , Pricing)

Entity : Flights

Flight(Transport_Id (references) , Flight No , Name) { Transport_Id is a foreign key }

Entity : Train

Train(Transport_Id , Train No , Name) { Transport_Id is a foreign key }

Entity : Complaints

Complaints (Complaint_number, User_Id(references))

{Here User_Id is referenced from User Entity that cant be Null as forced
Constraint of not Null as there must be a user_Id that needs to have for complaint
(Foreign key).}

Entity : Payments

User_ID,Ticket_ID,Payment_Status):

{User_ID and Ticket_ID is a foreign key}

Entity : Lounge

Lounge(Offers_code, Timings, Place, Credit card accepted)

Entity : Hotel_invoice

Hotel_Invoice(Date , Hotel_ID) {Hotel_ID is a foreign key here}

Entity :

Holiday_Package

Holiday_Package(Package_Id (Primary Key) , Ticket_no , Hotel_Id ,
Time_Period,Discounts)

Entity : Transport

Transport(Transport_ID , Destn_Location , Timings , Start_Location , Price , Vacancy(
Total , Filled))

Entity :

Booked_Lounge

Booked_Lounge(Date,User_Id(references),Flight_no,Offer_code)
{ Here User_Id is used as a foreignkey from user table to reference}

Entity :

Booked_Lounge

Booked_Lounge(Date,User_Id(references),Flight_no,Offer_code)
{ Here User_Id is used as a foreignkey from user table to reference}

**Relationship : Booked
Lounge**

Booked_Lounge

Foreign Key: Offer_code, Date, User_ID , Flight_No

Relationship : Holiday Package

Primary Key: Package_ID, Ticket No. , Hotel_ID,Time Period,Discounts

SQL QUERIES AND TRIGGERS

As previously stated, the back-end of the project is handled in MySQL Server; naturally, the queries are written in SQL. The project produced use cases that required complicated and challenging involving the use of subqueries, joins, and aggregate functions. A few examples of such queries are given below.

SQL Query

```
-- printing users who have booked lounges using a different command

SELECT u.Name
FROM Users u
WHERE EXISTS (
    SELECT 1
    FROM Booked_Loungue l
    WHERE u.userid = l.userid
);
```

SQL Query

```
select User_id,Ticket_id from payments where Payment_Status!=1 and Ticket_id is not NULL;
```

```
SELECT u.userid, SUM(t.Amount) AS total_amount  
FROM Users u  
JOIN Payments p ON u.userid = p.User_id  
JOIN Tickets t ON p.Ticket_id = t.Ticket_No  
where Payment_Status=1  
GROUP BY u.userid;
```

SQL Query

FIND TICKETS WHOSE PAYMENT IS NOT CLEARED

```
select User_id,Ticket_id from payments where Payment_Status!=1 and Ticket_id is not NULL;  
  
SELECT u.userid, SUM(t.Amount) AS total_amount  
FROM Users u  
JOIN Payments p ON u.userid = p.User_id  
JOIN Tickets t ON p.Ticket_id = t.Ticket_No  
where Payment_Status=1  
GROUP BY u.userid;|
```

SQL Query

```
SELECT users.City, SUM(tickets.Amount) AS TotalAmount
FROM users
INNER JOIN tickets ON users.userid = tickets.userid
GROUP BY users.City
HAVING SUM(tickets.Amount) = (
    SELECT MAX(TotalSum)
    FROM (
        SELECT SUM(Amount) AS TotalSum
        FROM tickets,users where tickets.userid=users.userid
        GROUP BY users.City
    ) AS MaxSums
);
```

SQL Query

```
SELECT u.name, u.email, l.date_on, f.name AS Flight_Name, bl.offers_Code AS offers, bl.credit_card
FROM Users u
INNER JOIN Booked_Loungue l ON u.userid = l.userid
INNER JOIN Flight f ON l.Flight_No = f.Flight_No
INNER JOIN Loungue bl ON bl.offers_code = l.offers_code;
```

SQL Trigger

```
USE makemytrip;

-- Dropping the lock_account_trigger if it exists
DROP TRIGGER IF EXISTS lock_account_trigger;

-- Recreating the lock_account_trigger trigger
DELIMITER //

CREATE TRIGGER lock_account_trigger BEFORE UPDATE ON userids_passwords
FOR EACH ROW
BEGIN
    IF NEW.tries >= 3 THEN
        SET NEW.is_locked = 'T';
        SET NEW.attempt_time = CURRENT_TIMESTAMP;
    END IF;
END //

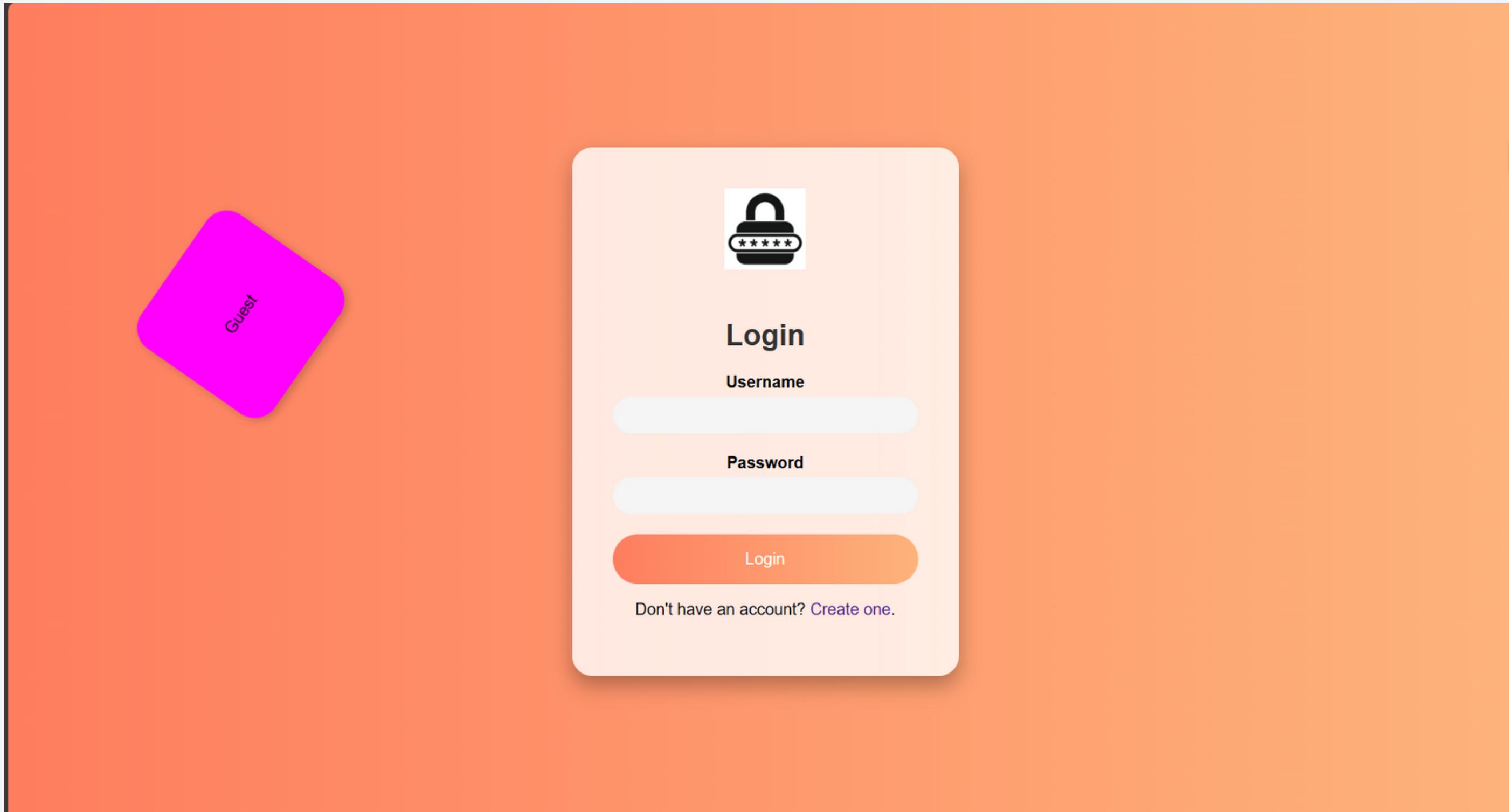
-- DELIMITER ;

-- Dropping the unlock_account_event if it exists
DROP EVENT IF EXISTS unlock_account_event;

-- Recreating the unlock_account_event event only if it doesn't already exist
CREATE EVENT IF NOT EXISTS unlock_account_event
ON SCHEDULE EVERY 10 SECOND
STARTS CURRENT_TIMESTAMP
DO
    UPDATE userids_passwords
    SET is_locked = 'F', tries = 0
    WHERE is_locked = 'T';

-- DELIMITER ;
```

PROJECT SNAPSHTOS



Tripsync

Flights Hotels Holidays Trains Upcoming Journeys

Discover Amazing Deals

Find the best flights, hotels, and holiday packages

Book Now

Flight Deals

Explore our latest flight offers and book your next trip

Hotel Stays

Discover top hotel deals for your next stay

Holiday Packages

Book exciting holiday packages at unbeatable

 Submit Complaint

Flight Information

Select Start Location: -- Select Start Location --

Select Destination: -- Select Destination --

| flight No | Start Location | Destination | Timings | Price | Vacancy | Book |
|-----------|-------------------|--------------------|-------------------------------|-------|---------|-----------------------|
| 2266 | Ortizmouth | Smithview | Feb. 10, 2025, 10:25 p.m. | 983 | 100 | <button>Book</button> |
| 3039 | North Sarah | East Kellyfort | March 16, 2024, 12:57 p.m. | 748 | 100 | <button>Book</button> |
| 5911 | South Eric | Lake Carolyntown | Oct. 4, 2023, 5:01 a.m. | 63 | 100 | <button>Book</button> |
| 6830 | New Amanda | Port Teresaborough | March 16, 2023, 12:29 a.m. | 637 | 100 | <button>Book</button> |
| 7876 | South Sheila | South Edwardmouth | March 3, 2023, 6:39 a.m. | 489 | 100 | <button>Book</button> |
| 8991 | Hudsonchester | South Kerrystad | Aug. 10, 2024, 2:10 a.m. | 249 | 100 | <button>Book</button> |
| 9220 | South Edwardmouth | South Sheila | March 3, 2025, 6:39 a.m. | 489 | 100 | <button>Book</button> |
| 9684 | North Alanstad | Rachelfort | Dec. 3, 2023, 11:17 a.m. | 741 | 100 | <button>Book</button> |

Hotel Information

Location: -- Location --

| Hotel ID | Location | Timings | Price | Vacancy | Book |
|----------|--------------------|----------------------------|-------|---------|-----------------------|
| 1478 | East Jason | April 21, 2024, 11:13 p.m. | 2528 | 100 | <button>Book</button> |
| 1691 | South Sheila | April 21, 2024, 11:13 p.m. | 1875 | 100 | <button>Book</button> |
| 4002 | Reneeville | April 21, 2024, 11:13 p.m. | 8460 | 100 | <button>Book</button> |
| 5490 | Port Teresaborough | April 21, 2024, 11:13 p.m. | 4950 | 100 | <button>Book</button> |
| 5871 | Whiteville | April 21, 2024, 11:13 p.m. | 8835 | 100 | <button>Book</button> |
| 7072 | Salasside | April 21, 2024, 11:13 p.m. | 2921 | 100 | <button>Book</button> |
| 7295 | Riveratown | April 21, 2024, 11:13 p.m. | 4553 | 100 | <button>Book</button> |
| 7467 | Lake Dianaville | April 21, 2024, 11:13 p.m. | 5326 | 100 | <button>Book</button> |
| 7777 | East Nicholasbury | April 21, 2024, 11:13 p.m. | 4860 | 100 | <button>Book</button> |

Holiday Packages

Select Start Location:

Select Destination:

| Flight no | Start Location | Destination | Hotel | Timings | Price | Vacancy | Book |
|-----------|-------------------|--------------------|-------|---------|-------|---------|-----------------------|
| 9220 | South Edwardmouth | South Sheila | 1691 | 2128 | 489 | 100 | <button>Book</button> |
| 9811 | Lake Brian | Reneeville | 4002 | 7731 | 130 | 100 | <button>Book</button> |
| 6830 | New Amanda | Port Teresaborough | 5490 | 5028 | 637 | 100 | <button>Book</button> |

Train Information

Select Start Location:

-- Select Start Location --

Select Destination:

-- Select Destination --

| Train No | Start Location | Destination | Timings | Price | Vacancy | Book |
|----------|--------------------|-----------------|----------------------------|-------|---------|-----------------------|
| 1580 | Mikaylaland | South Rickyview | Nov. 5, 2025, 1:17 a.m. | 202 | 100 | <button>Book</button> |
| 1734 | South Kerrystad | Hudsonchester | Aug. 10, 2024, 2:10 a.m. | 249 | 100 | <button>Book</button> |
| 1828 | Lake Carolyntown | South Eric | Oct. 4, 2025, 5:01 a.m. | 63 | 100 | <button>Book</button> |
| 3442 | Port Teresaborough | New Amanda | March 16, 2023, 12:29 a.m. | 637 | 100 | <button>Book</button> |
| 3482 | South Rickyview | Mikaylaland | Nov. 5, 2025, 1:17 a.m. | 202 | 100 | <button>Book</button> |
| 4875 | Reneeville | Lake Brian | May 2, 2023, 4:33 a.m. | 130 | 100 | <button>Book</button> |
| 6310 | New Glenn | West Joymouth | Jan. 20, 2024, 5:21 a.m. | 219 | 100 | <button>Book</button> |
| 6607 | Rachelfort | North Alanstad | Dec. 3, 2023, 11:17 p.m. | 741 | 100 | <button>Book</button> |

Ticket Information

| Ticket ID | Type | Train No / Flight No | Start Location | Destination | Timings | Price | Quantity |
|-----------|--------|----------------------|----------------|----------------|----------------------------|-------|----------|
| 9705 | Flight | 3039 | North Sarah | East Kellyfort | March 16, 2024, 12:57 p.m. | 7480 | 10 |

Booking Page

Flight Details

Package ID: 2180

Start Location: Lake Brian

End Location: Reneeville

Flight Number: 9811

Hotel ID: 4002

Name:

Donald Sanchez

Email:

jessica28@example.net

Phone:

6403857742

Address:

7698 AnitaView

Pincode:

734803

Age:

34

Gender:

Male

Quantity:

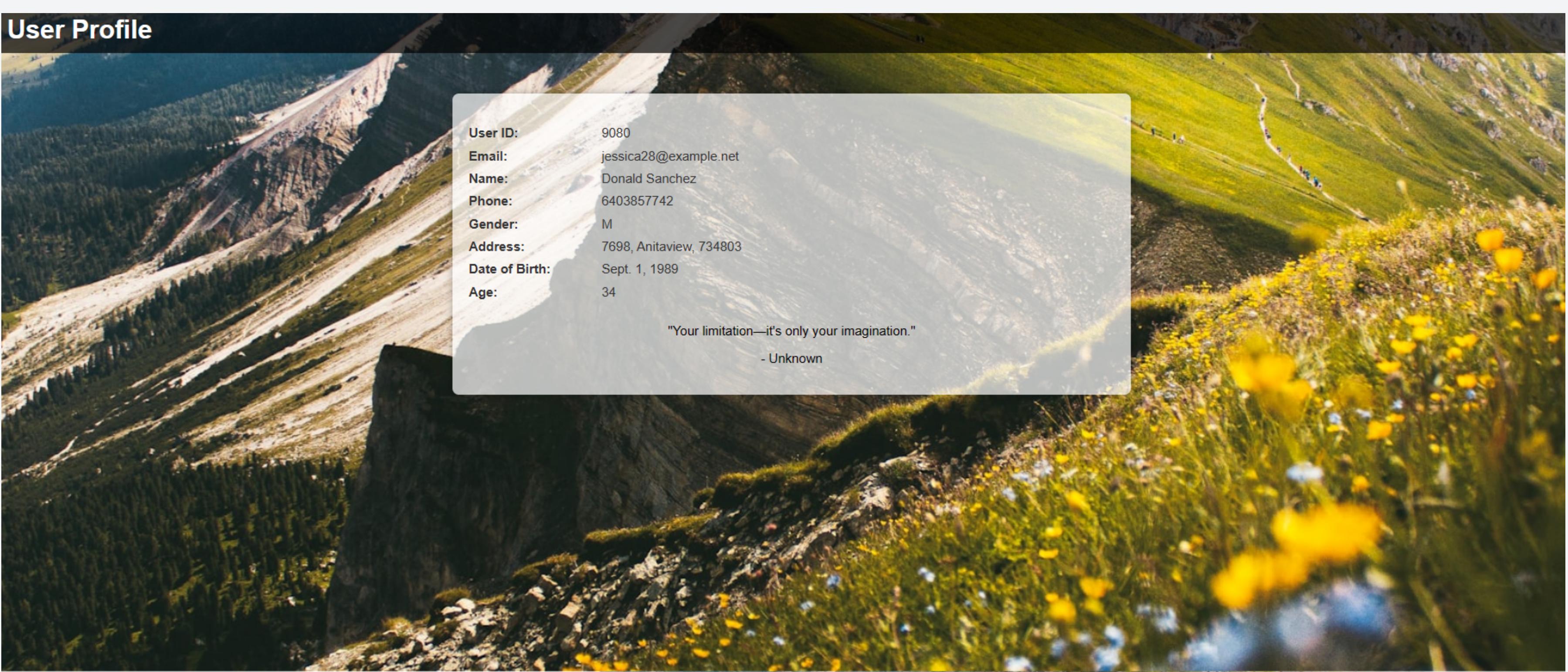
1

Book



A transaction of Ruppees 77310 has been initiated please do not press back button

User Profile



User ID: 9080
Email: jessica28@example.net
Name: Donald Sanchez
Phone: 6403857742
Gender: M
Address: 7698, AnitaView, 734803
Date of Birth: Sept. 1, 1989
Age: 34

"Your limitation—it's only your imagination."

- Unknown



Submit feedback or complaint



User Guide

The website is currently hosted on a developmental server, while the database is hosted on a local machine. The website can be accessed at <http://127.0.0.1:8000/> only when the local server is running.

Navigation through the application

The website's idea is inspired from the makemy trip the travel booking app and while designing the frontend the principles like- "simplicity", "Accessibility" were kept in mind for the application.

Stakeholder customer:

To use our website to its full extent the user has to make an account on the website using the create account button available in the login page. If the user already has an account then user's data will be stored in the database and the user will be able to log in by entering the credentials in the login page. Although if the person only wants to browse through the various trains, flights, transports etc. available on the website they can use the guest login option available on the login page. On the home page the user can select the different tabs available on the top based on what the person wants to book the tickets for like the Flights, Trains, Hotels etc. After selecting the transport or the hotel that the person wants to book the user can search the specific locations and the user will be shown the different transports/ hotels available for booking after which the user will be redirected to the Bookings Page where the data of the booking will be fetched by the database automatically. The booking details after booking can be seen in the Tickets information page available to the user where the user can see the tickets that were booked by them. The user can also submit their Feedback or complaints that they have for the application. The user can also see their user profile by clicking on the profile option available on the top right corner of the home page.

Stakeholders : trains, hotels, flights

These stakeholders cannot make their own accounts on the website for sharing their services. These services can only be updated by the owner of the database depending on the various transports and hotels available to the user.