

IT 211 - DATABASE MANAGEMENT SYSTEM



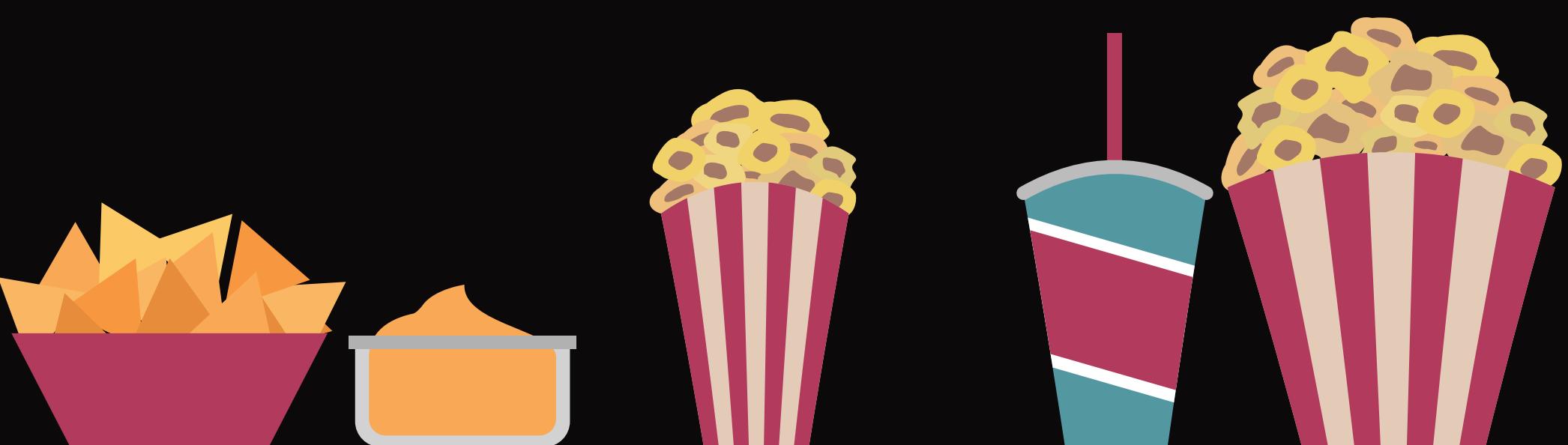
MOVIE MATE

MOVIE TICKET BOOKING SYSTEM

BSIT 2103

BACKGROUND OF THE STUDY

The entertainment sector has experienced significant change in recent years, with a clear move towards digital platforms for content consumption and access. The movie business has been an active participant in this change, having seen the progressive rise of online ticket booking systems in place of the traditional method of purchasing movie tickets through physical box offices. This change is primarily driven by the growing need for convenience and the shared goal of improving the overall movie-going experience for customers. The objective of this research project is to examine, develop, and put into practice a comprehensive system for purchasing movie tickets. The study aims to address the shortcomings of conventional approaches and capitalize on the advances made possible by digital technology.

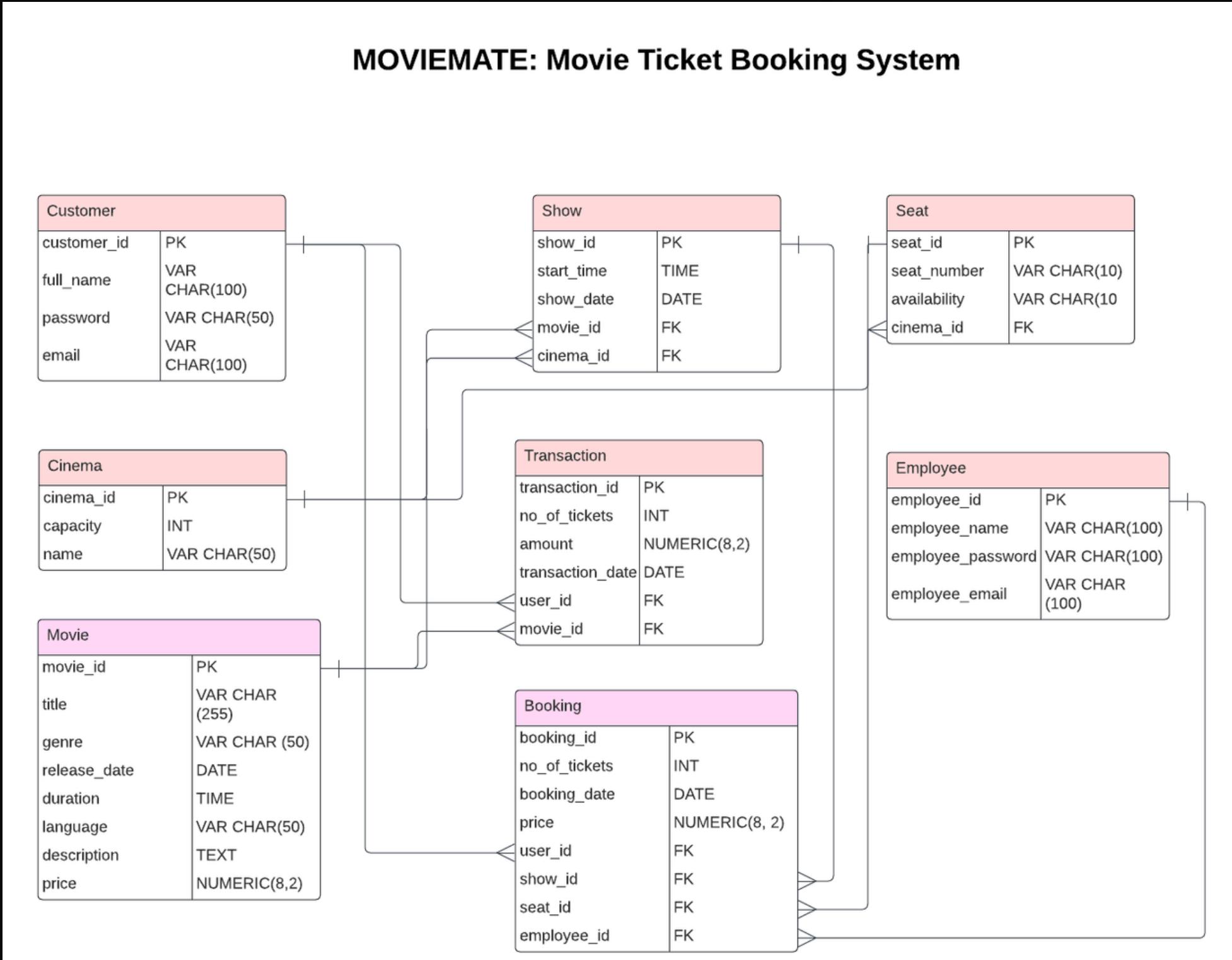


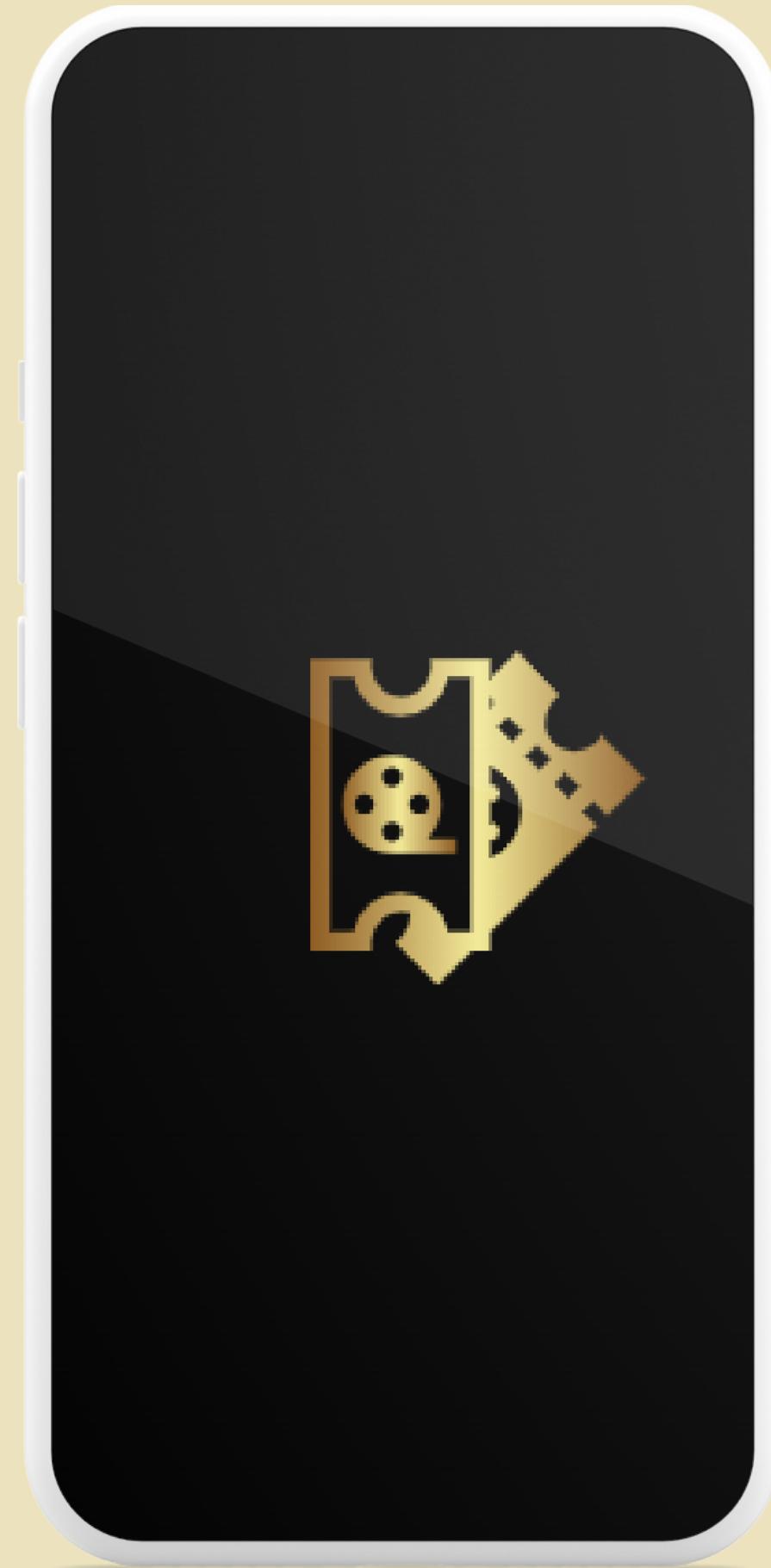
PROBLEM STATEMENT AND SYSTEM IMPACT

The conventional method of purchasing movie tickets through physical box offices has become increasingly outdated and is associated with several inherent challenges. Long queues at cinema counters, limited accessibility for potential patrons, and the potential for errors in the manual booking process collectively contribute to a suboptimal cinema-going experience. These challenges not only inconvenience users but also pose operational inefficiencies for cinema administrators.

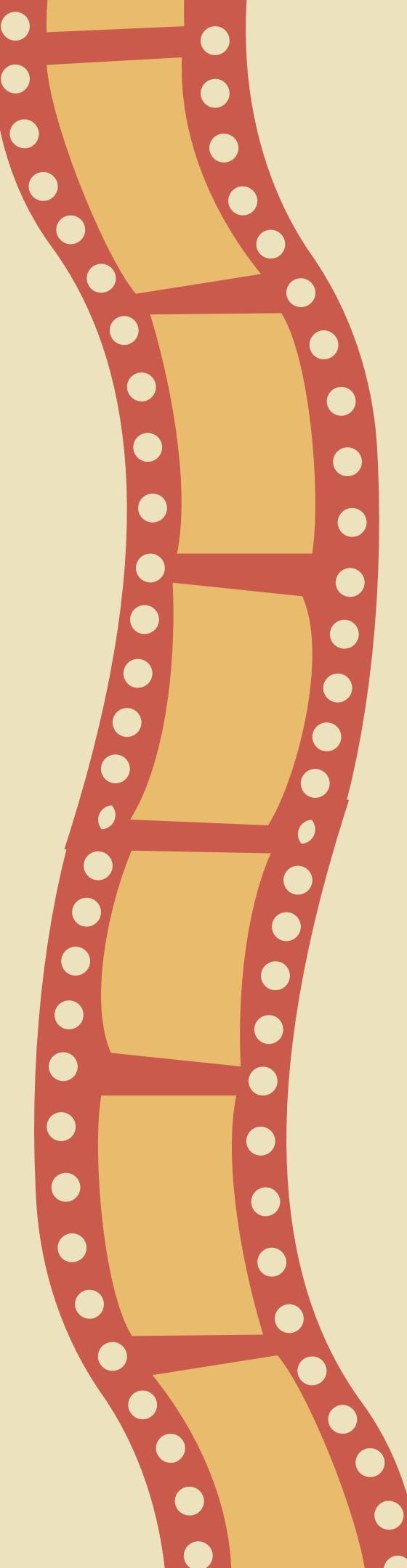
The aim of the proposed online ticket booking system is to give customers a streamlined and safe booking experience by getting rid of lines, improving accessibility, and minimizing errors. At the same time, it streamlines theater administration, enhancing operational effectiveness and conforming to contemporary industry standards.

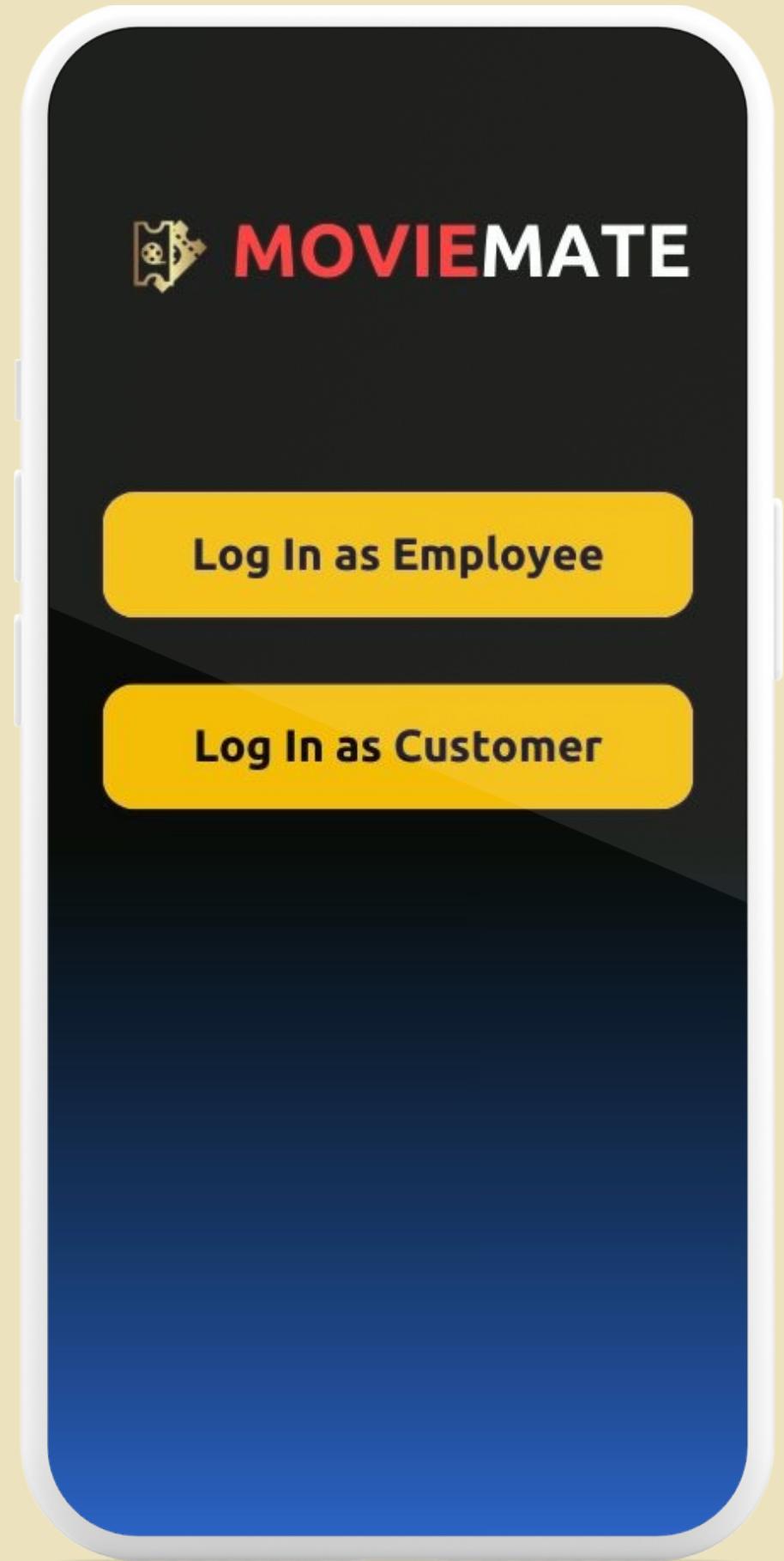
DATABASE SCHEMA



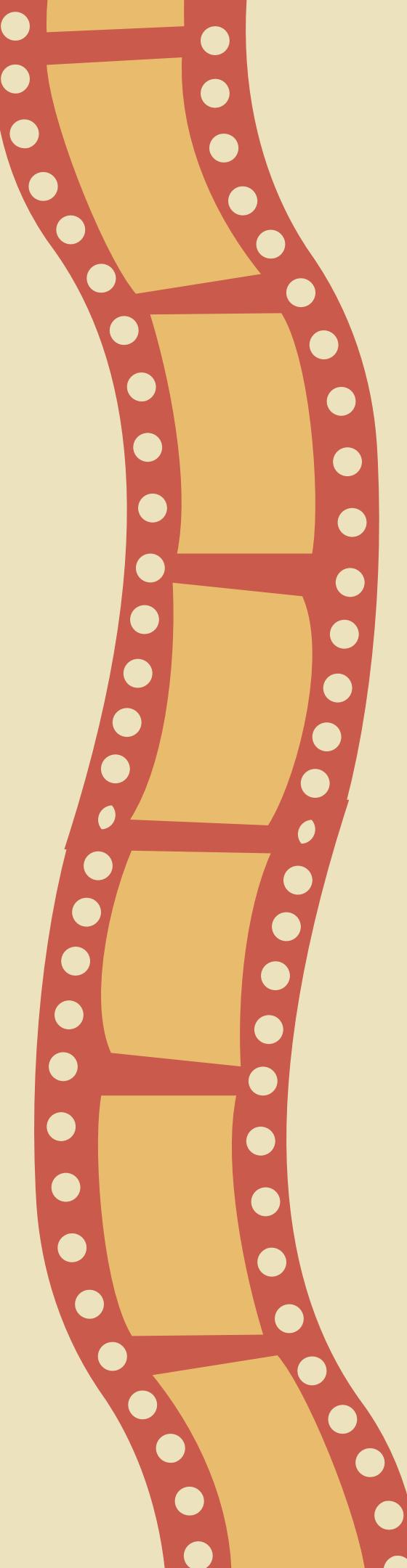


Opening application





Login

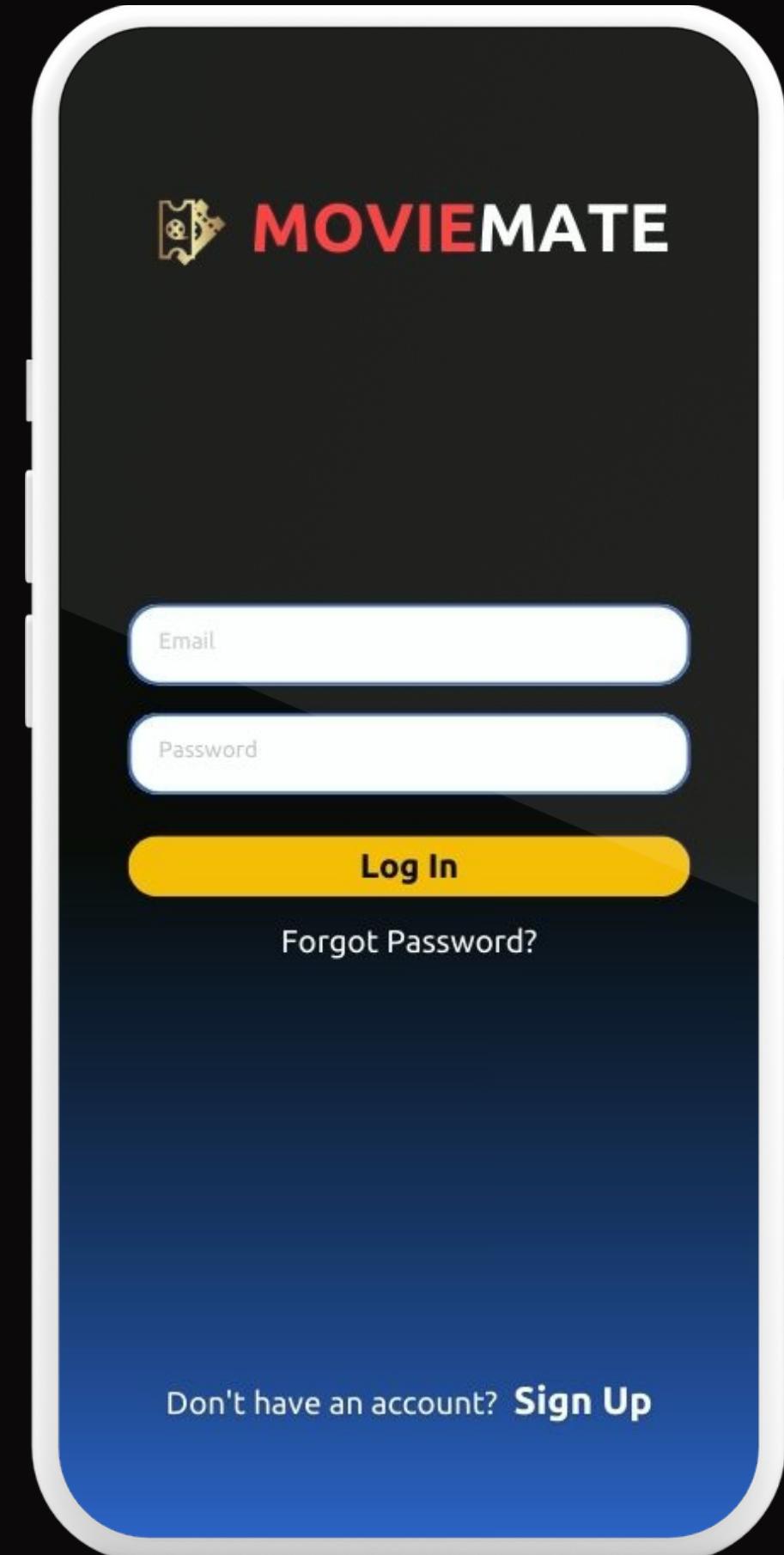




Login As a Customer

QUERY:

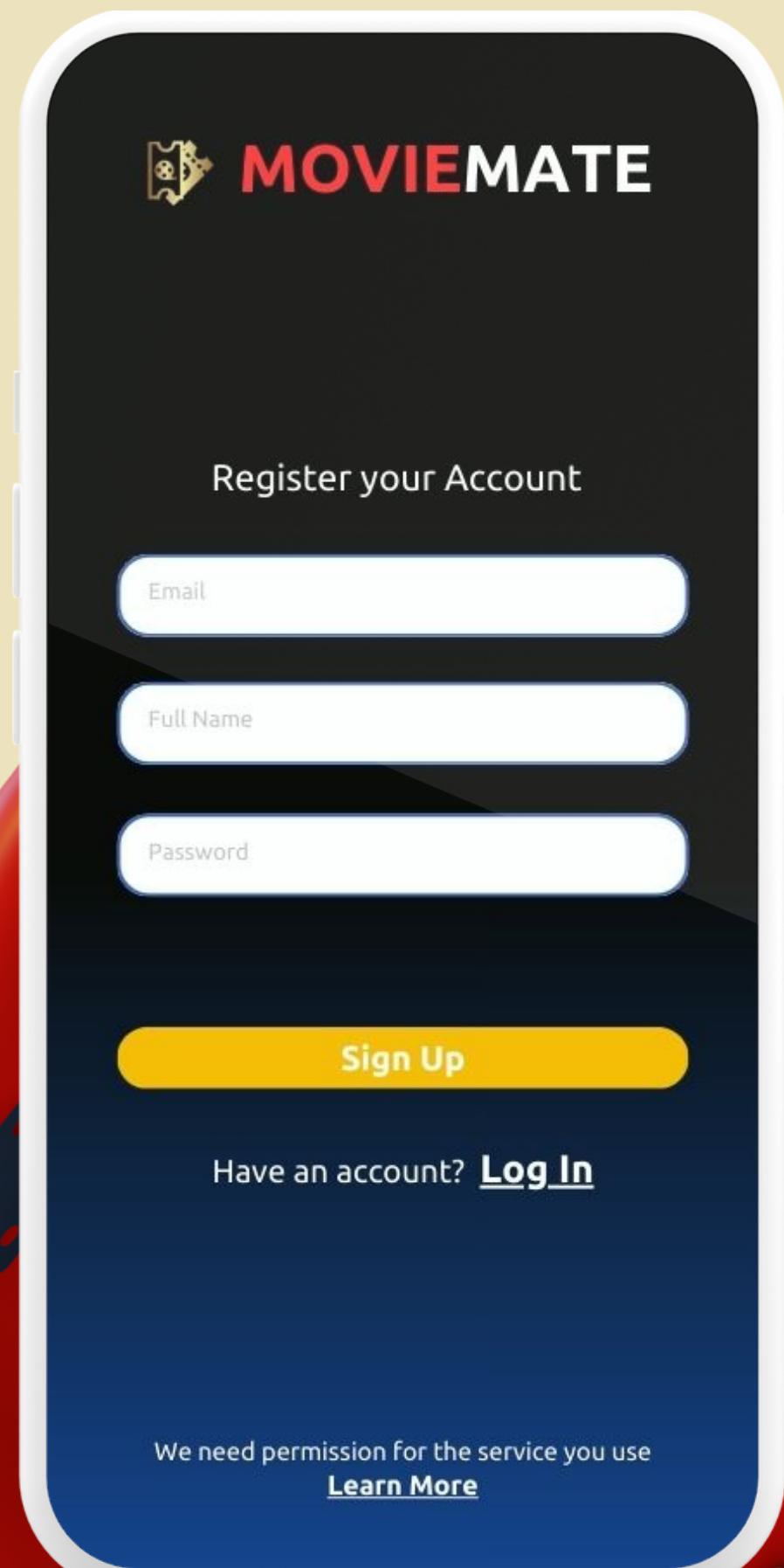
```
SELECT customer_id  
FROM customer  
WHERE email =  
'sharmaineabrenica@gmail.com'  
AND password = 'password123';
```



Register/sign up

QUERY:

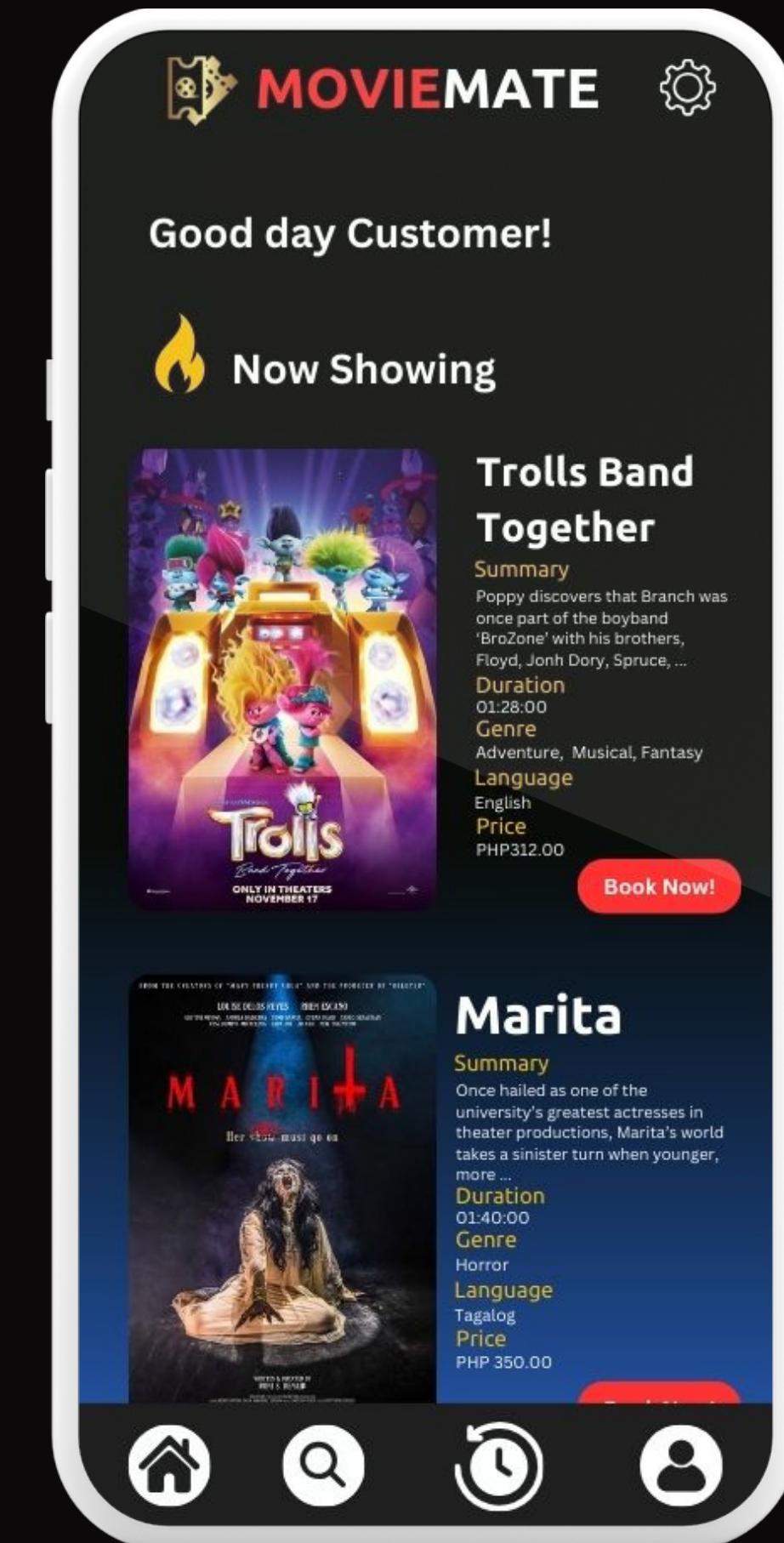
```
INSERT INTO Customer  
(customer_id, full_name,  
password, email)  
VALUES (1, 'Sharmaine Abrenica',  
'password123',  
'sharmaineabrenica@gmail.com');
```



Home

QUERY:

```
SELECT movie_id, title, genre,  
release_date, duration,  
language, description, price  
FROM Movie;
```



Movie Details



QUERY: movie details by movie_id

```
SELECT title, genre,  
release_date, duration,  
language, description  
FROM Movie  
WHERE movie_id = 1;
```

The image shows a mobile application interface for 'MOVIE MATE'. At the top, there's a logo with a movie camera icon, the text 'MOVIE MATE', and a gear icon for settings. Below that, a back arrow and the title 'Movie Details' are displayed. The main content area shows movie details for 'Trolls Band Together':
Title: Trolls Band Together
Summary: Poppy discovers that Branch was once part of the boyband 'BroZone' with his brothers, Floyd, Jonh Dory, Spruce, and Clay. When Floyd was kidnapped, Branch and Poppy embark on a journey to reunite with his two other brothers and rescue floyd.
Duration: 01:28:00
Genre: Adventure, Musical, Fantasy
Language: English
Price: PHP312.00
To the right of the details is a movie poster for 'Trolls Band Together' with the tagline 'ONLY IN THEATERS NOVEMBER 17'. Below the movie details is a booking calendar table:

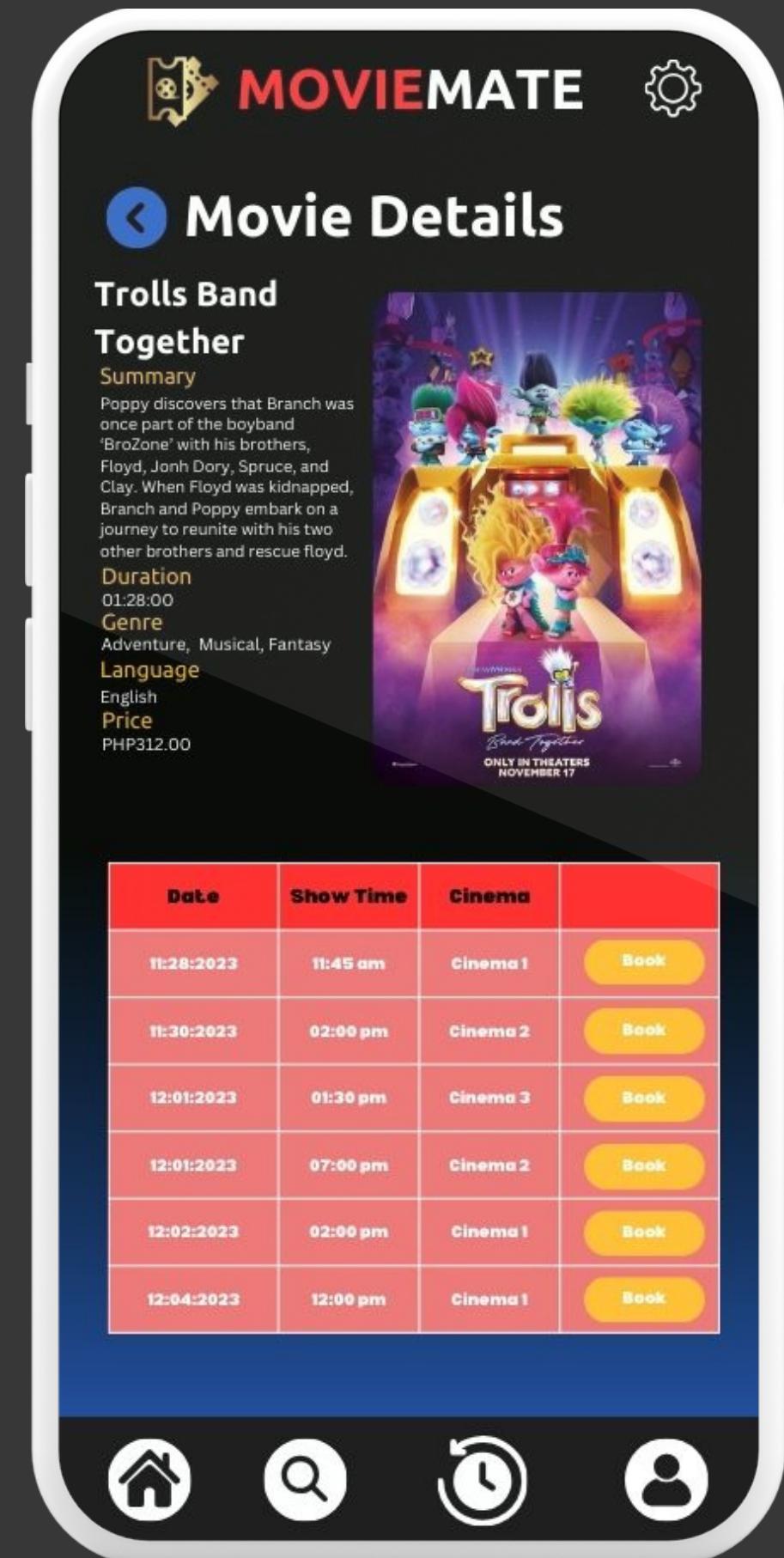
Date	Show Time	Cinema	Action
11:28:2023	11:45 am	Cinema 1	Book
11:30:2023	02:00 pm	Cinema 2	Book
12:01:2023	01:30 pm	Cinema 3	Book
12:01:2023	07:00 pm	Cinema 2	Book
12:02:2023	02:00 pm	Cinema 1	Book
12:04:2023	12:00 pm	Cinema 1	Book

At the bottom of the screen are four navigation icons: a house (Home), a magnifying glass (Search), a clock (Time), and a person (User).

Movie Details

QUERY: showtimes for a specific movie

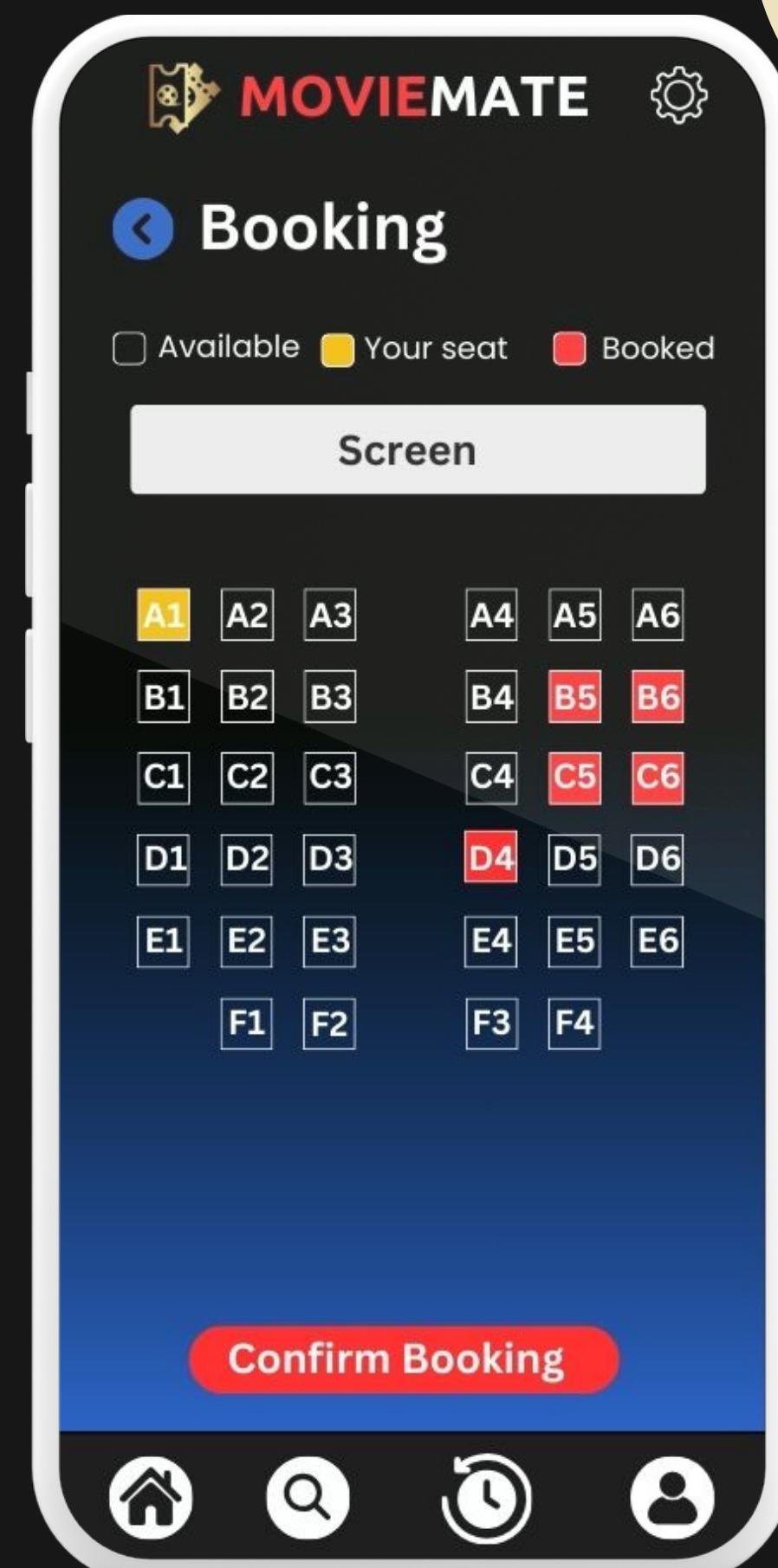
```
SELECT Cinema.name AS
cinema_name, Show.start_time,
Show.show_date
FROM Show
INNER JOIN Cinema ON
Show.cinema_id =
Cinema.cinema_id
WHERE Show.movie_id = 1;
```



Booking

QUERY:

```
SELECT Seat.seat_number, Seat.availability  
FROM Seat  
WHERE Seat.cinema_id = 1  
AND Seat.seat_number NOT IN (  
    SELECT Seat.seat_number  
    FROM Booking  
    INNER JOIN Show ON Booking.show_id = Show.show_id  
    INNER JOIN Seat ON Booking.seat_id = Seat.seat_id  
    WHERE Show.movie_id = 1  
    AND Show.cinema_id = 1);
```



Notification



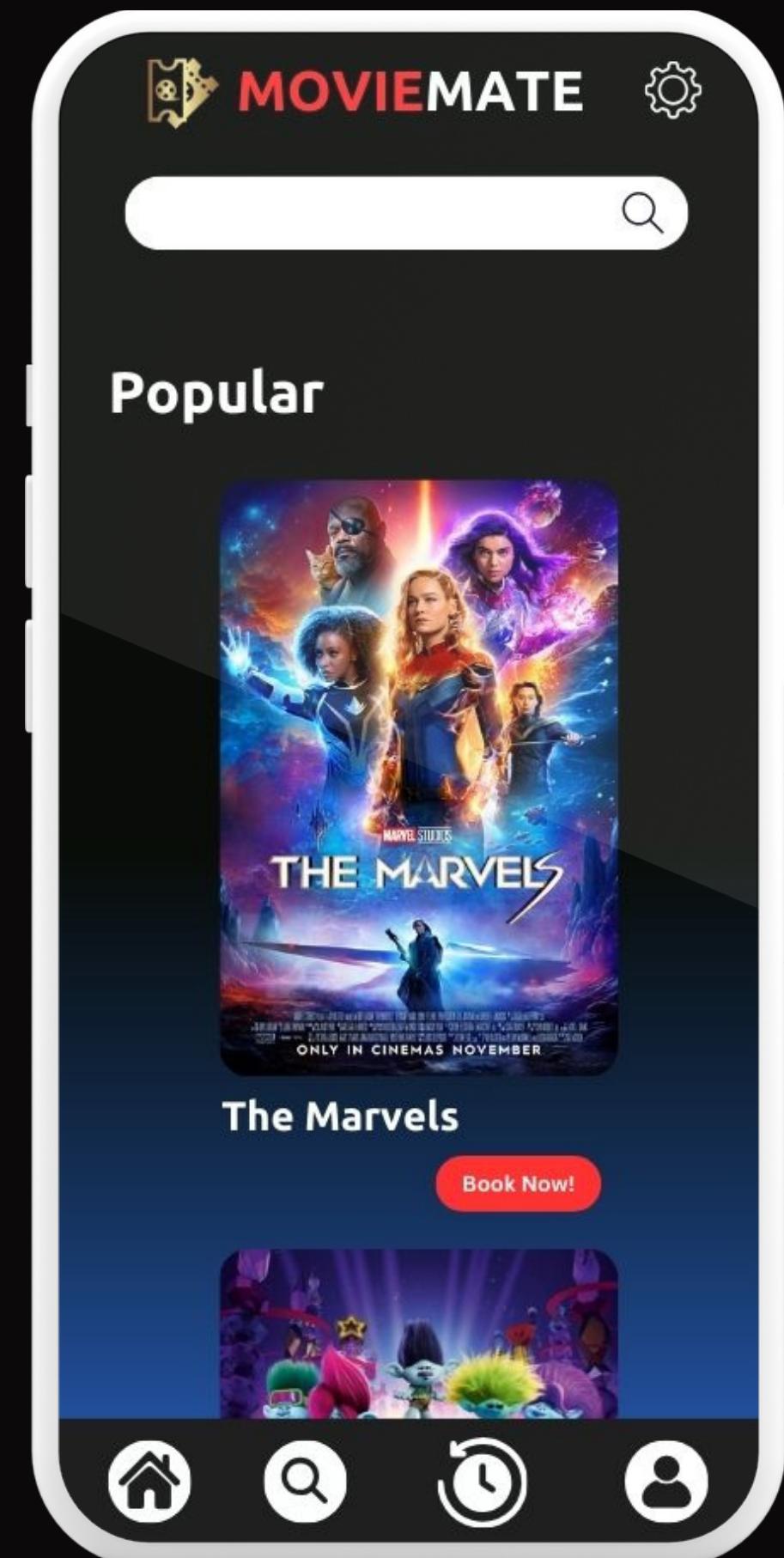
Search

```
SELECT *  
FROM Movie  
WHERE title LIKE CONCAT('%The Marvels');
```

```
SSELECT * FROM Movie  
WHERE genre LIKE CONCAT('%Horror');
```

```
SELECT * FROM Movie  
WHERE language LIKE CONCAT('%English');
```

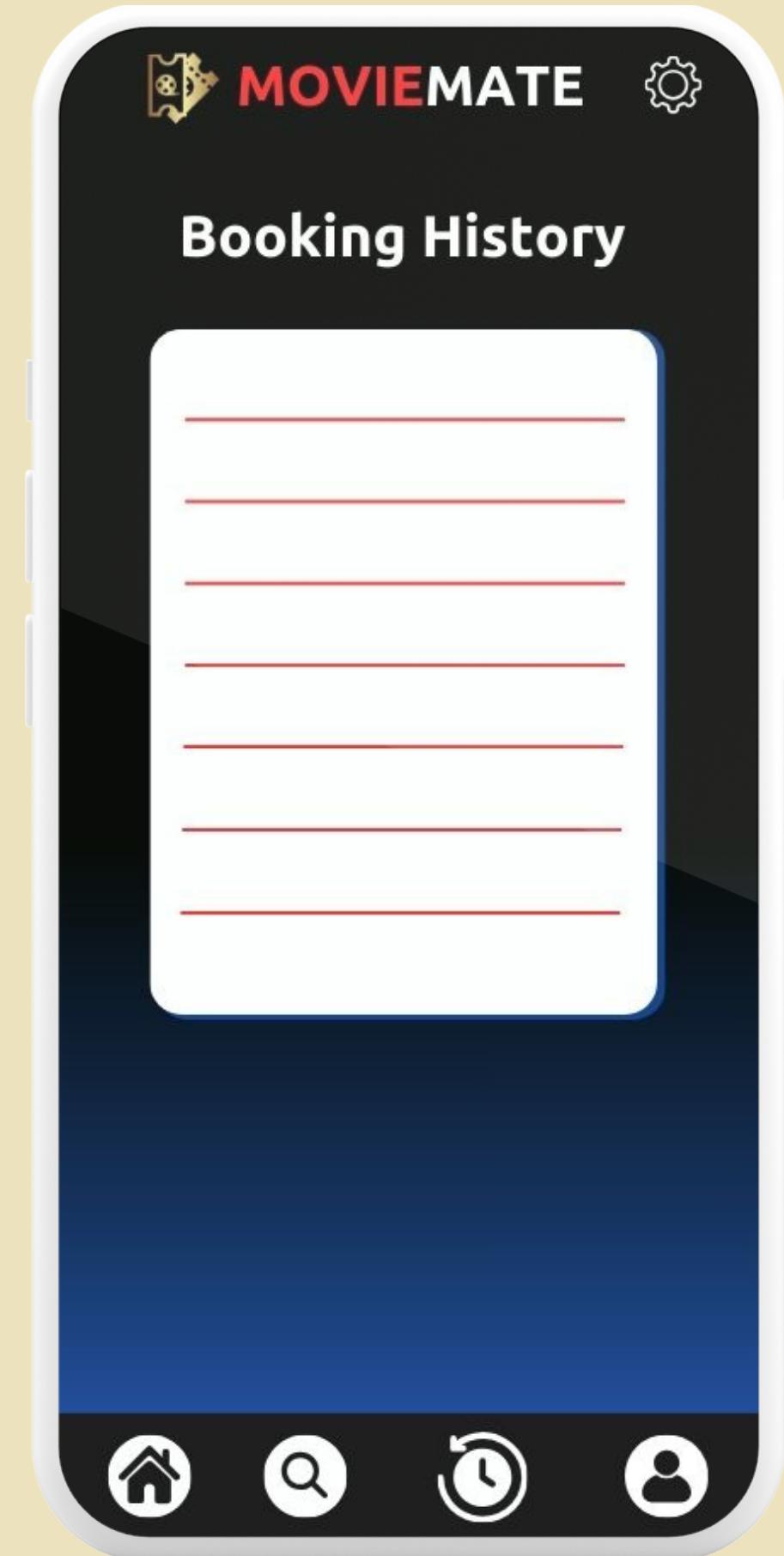
```
SELECT * FROM Movie  
WHERE release_date BETWEEN '2023-01-01' AND  
'2023-12-31';
```



Booking History

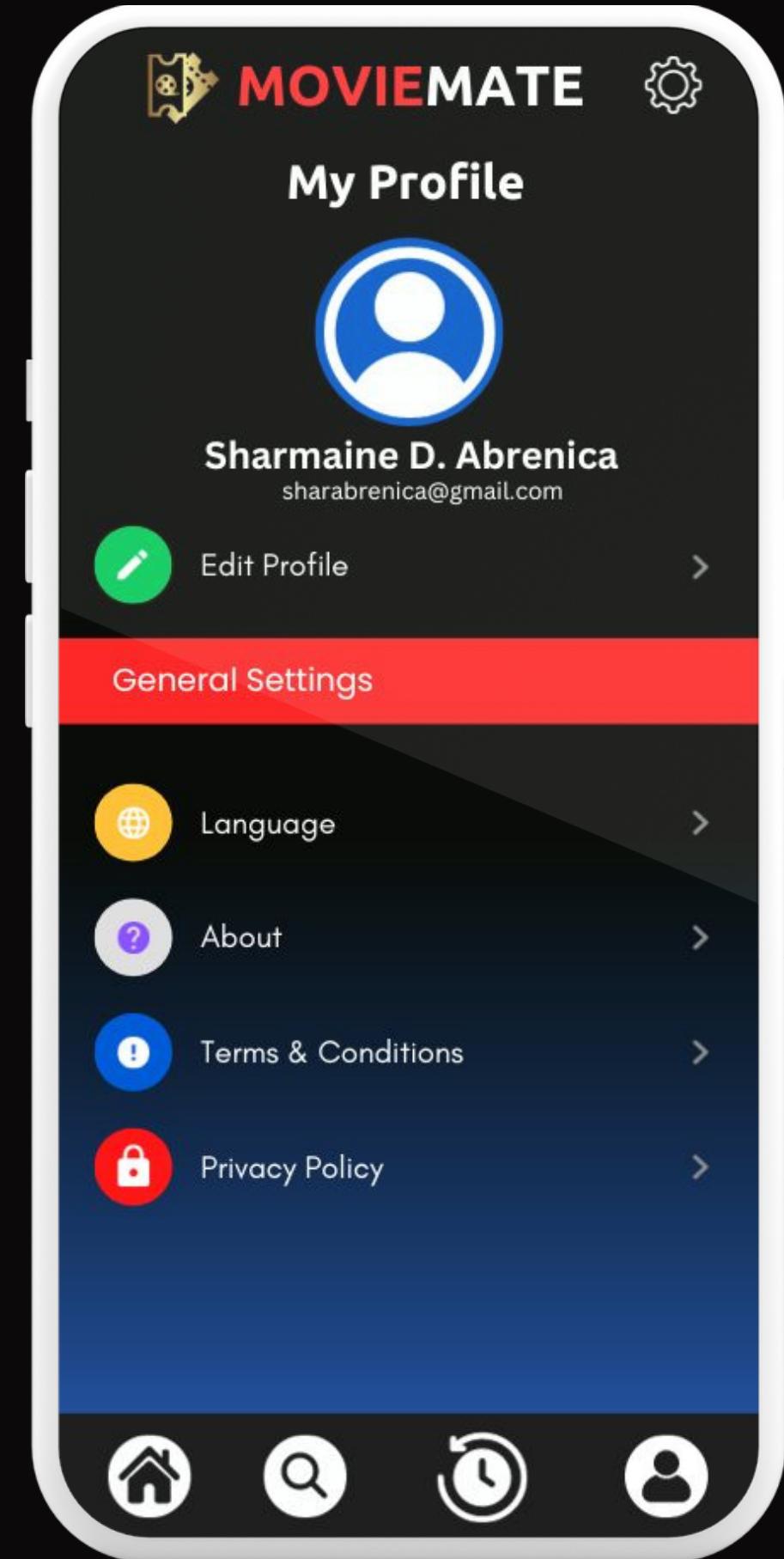
QUERY:

```
SELECT Booking.booking_id, Movie.title,  
Show.show_date, Show.start_time, Booking.price  
FROM Booking  
INNER JOIN Show ON Booking.show_id =  
Show.show_id  
INNER JOIN Movie ON Show.movie_id =  
Movie.movie_id  
WHERE Booking.user_id = 1;
```



Profile QUERY:

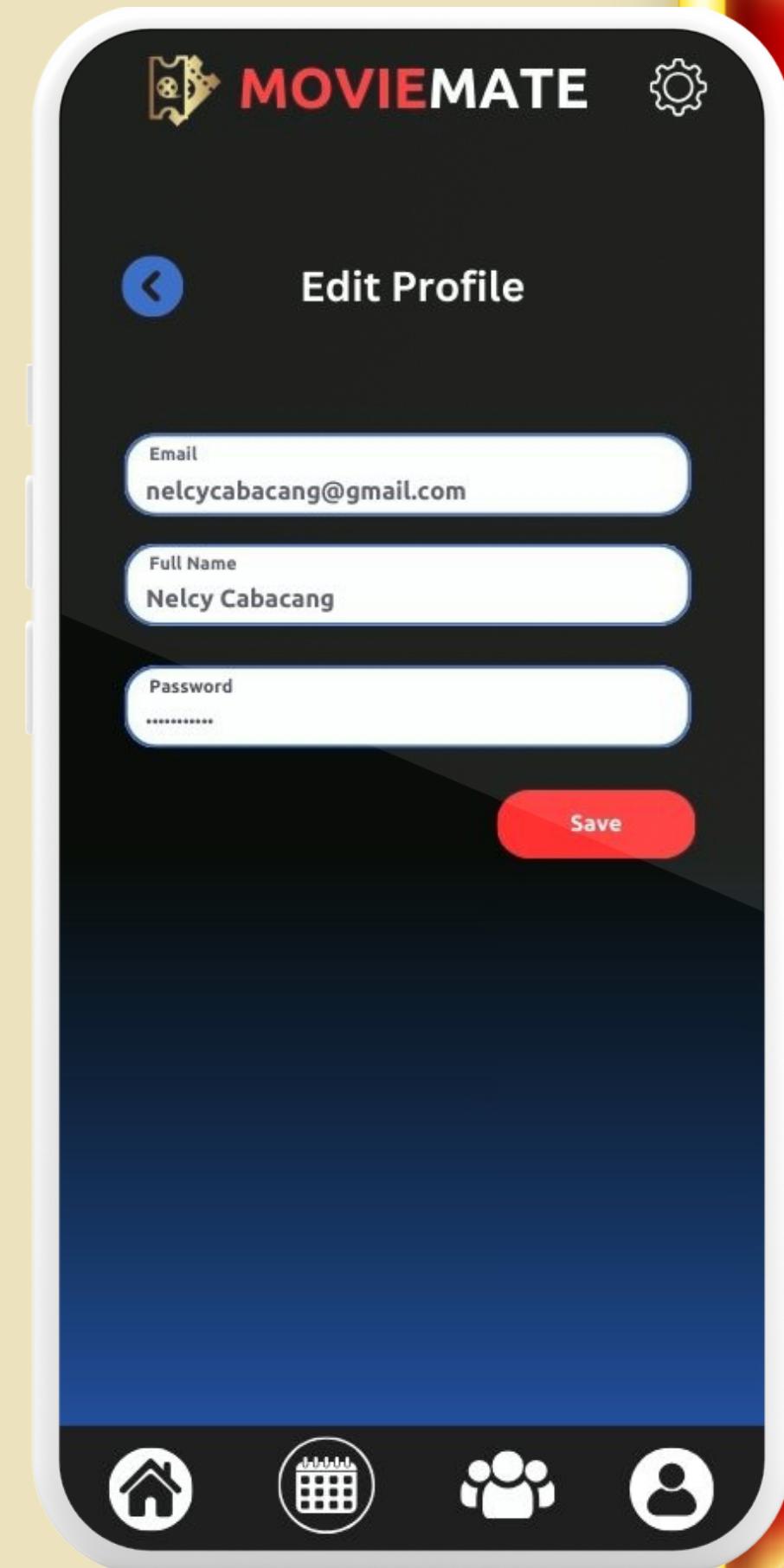
```
SELECT full_name, email  
FROM Customer  
WHERE customer_id = 1;
```



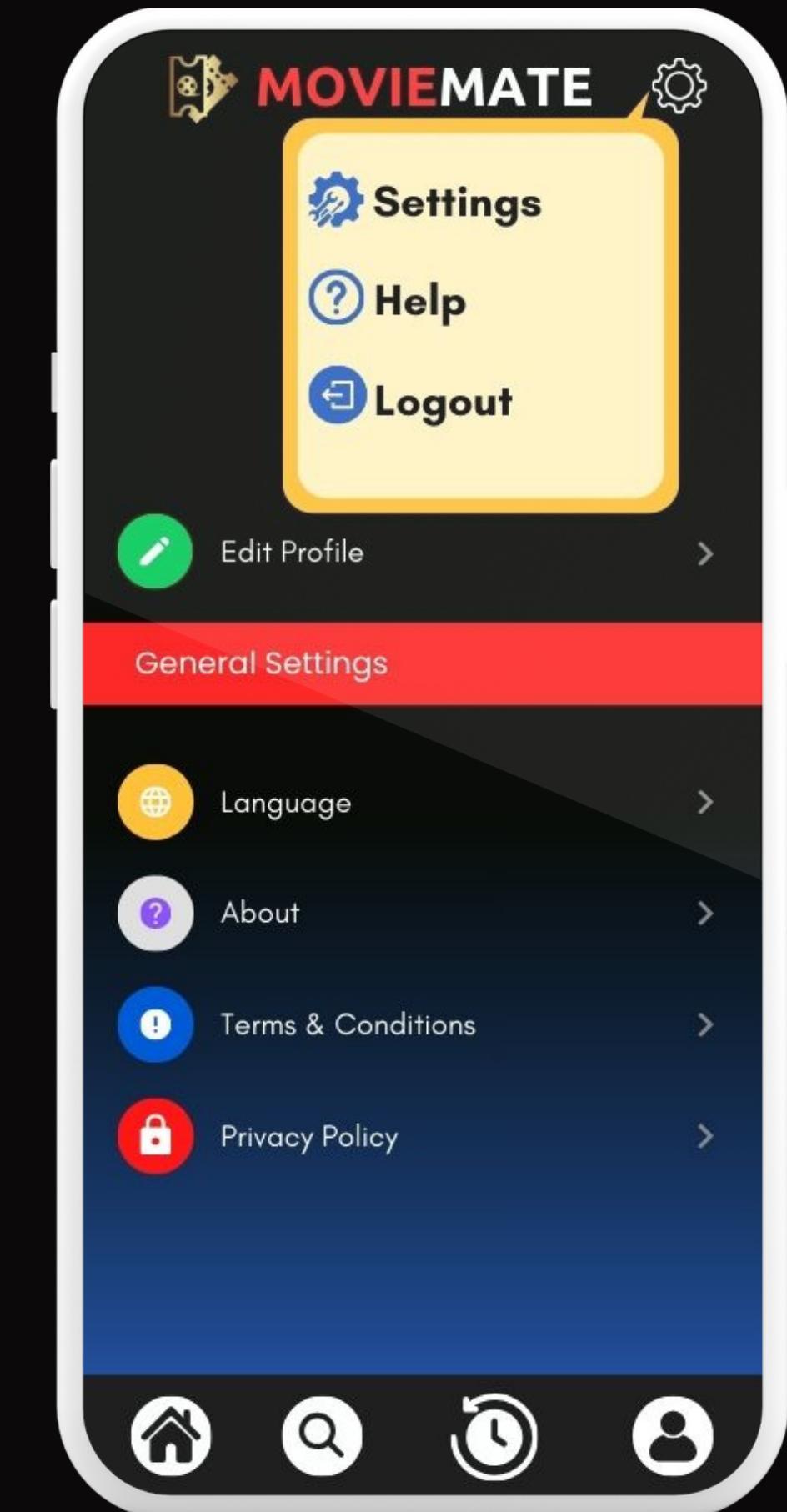
Edit Profile

QUERY:

```
UPDATE Customer
SET email = 'sharnewemail@gmail.com',
full_name = 'Shar Abrenica',
password = '033004'
WHERE customer_id = 1;
```



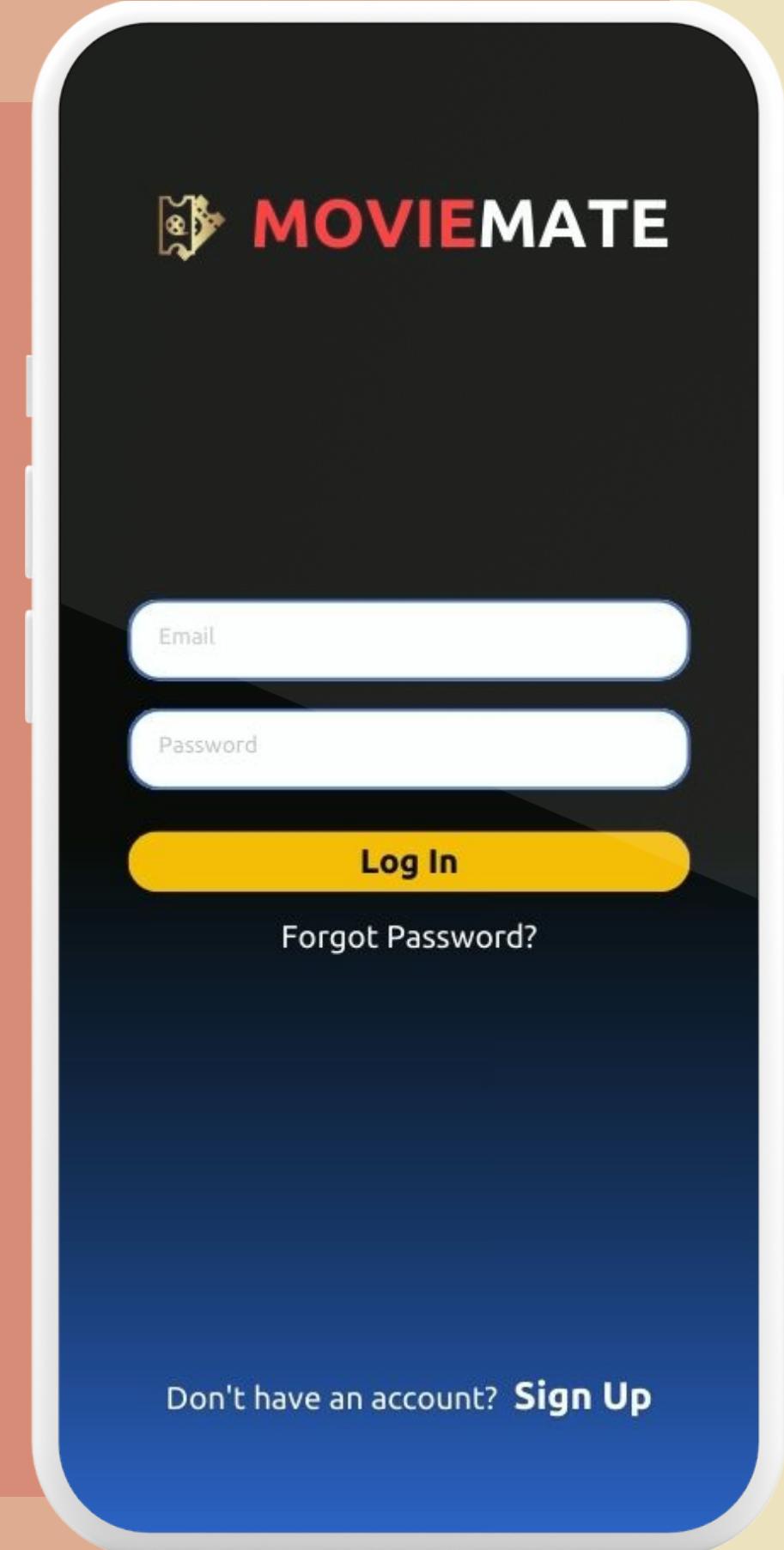
Customer Interface



Login As an Employee

QUERY:

```
SELECT employee_id  
FROM employee  
WHERE employee_email =  
'admin@gmail.com' AND  
employee_password =  
'admin_password';
```



Movie List

QUERY:

--Movie List

--Retrieve All Movies

```
SELECT title, genre,  
release_date, duration,  
language, description  
FROM Movie;
```

--To edit movie list

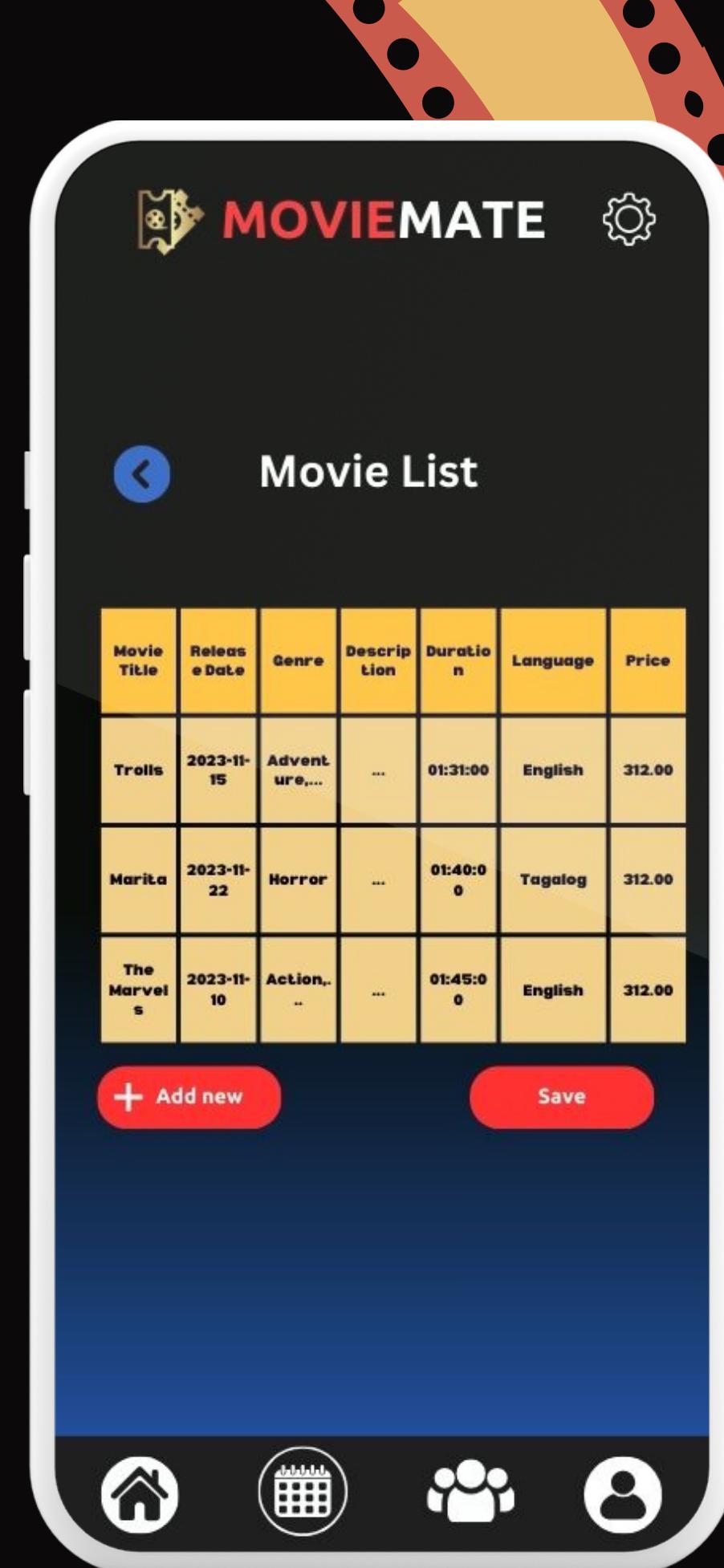
UPDATE Movie

SET

```
title = 'New Movie Title',  
description = 'New  
movie description'  
WHERE  
movie_id = 5;
```

--To delete a movie

```
DDELETE FROM Movie  
WHERE movie_id = 10
```



Schedule

QUERY:

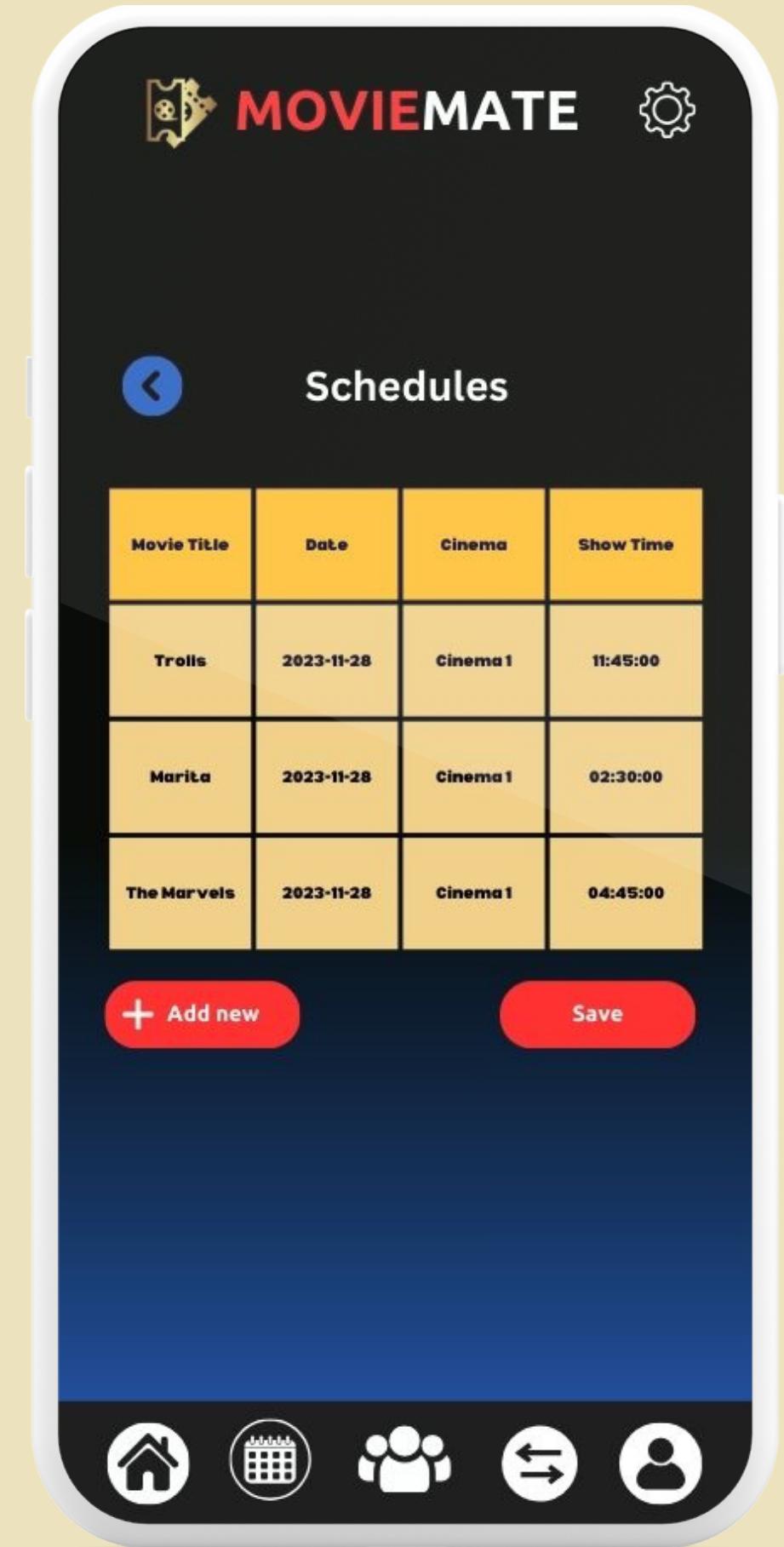
SELECT

 Movie.title AS movie_title,
 Show.show_date AS show_date,
 Cinema.name AS cinema_name,
 Show.start_time AS show_time

FROM

 Show

JOIN Movie ON Show.movie_id =
 Movie.movie_id
JOIN Cinema ON Show.cinema_id =
 Cinema.cinema_id;



Manage Customers

QUERY:

-- Retrieve all customers

```
SELECT * FROM Customer;
```

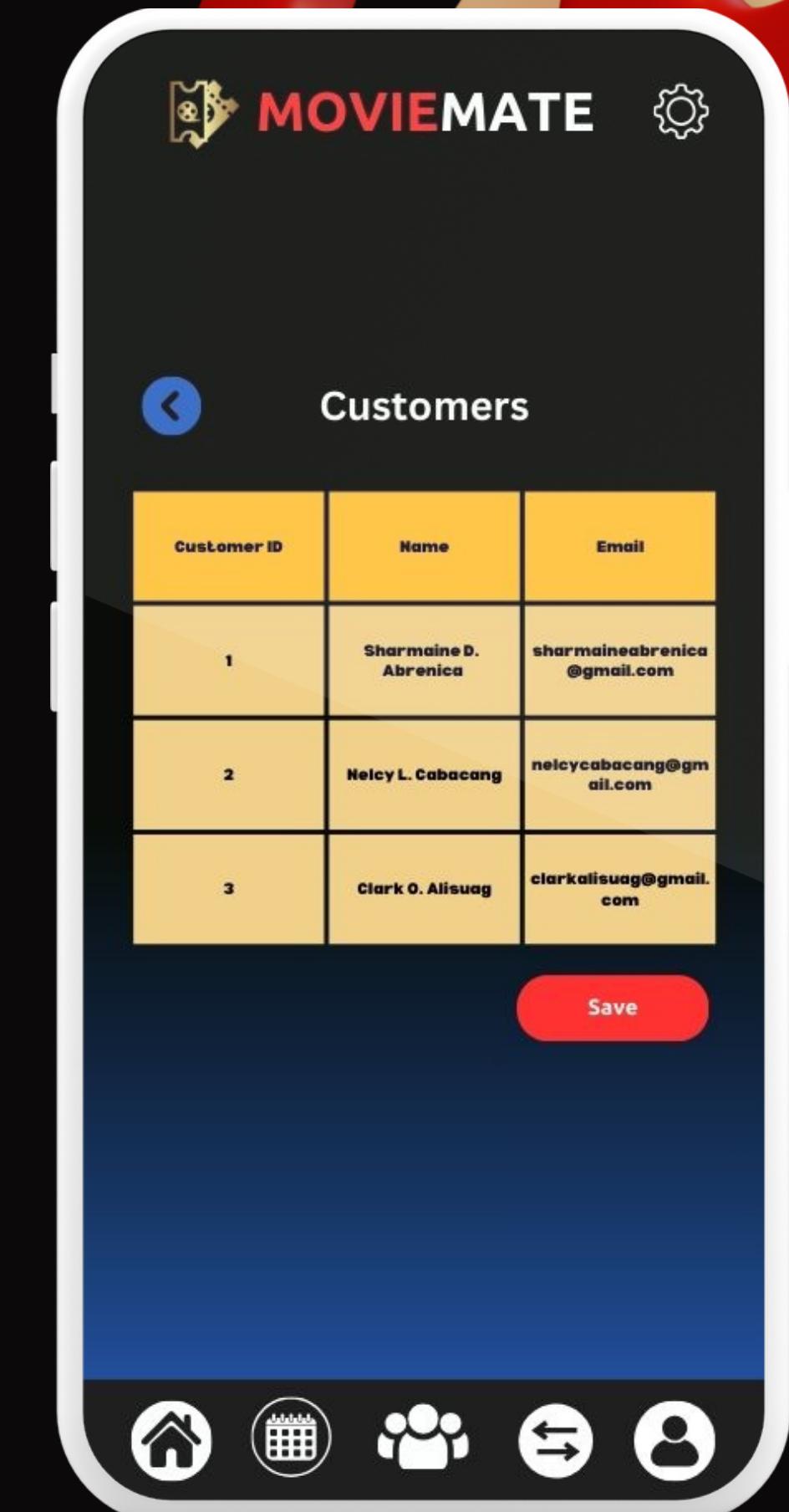
-- Update customer information

```
UPDATE Customer  
SET full_name = 'Updated Name', email =  
'updatedemail@example.com'
```

```
WHERE customer_id = customer_id_to_update;
```

-- Delete a customer

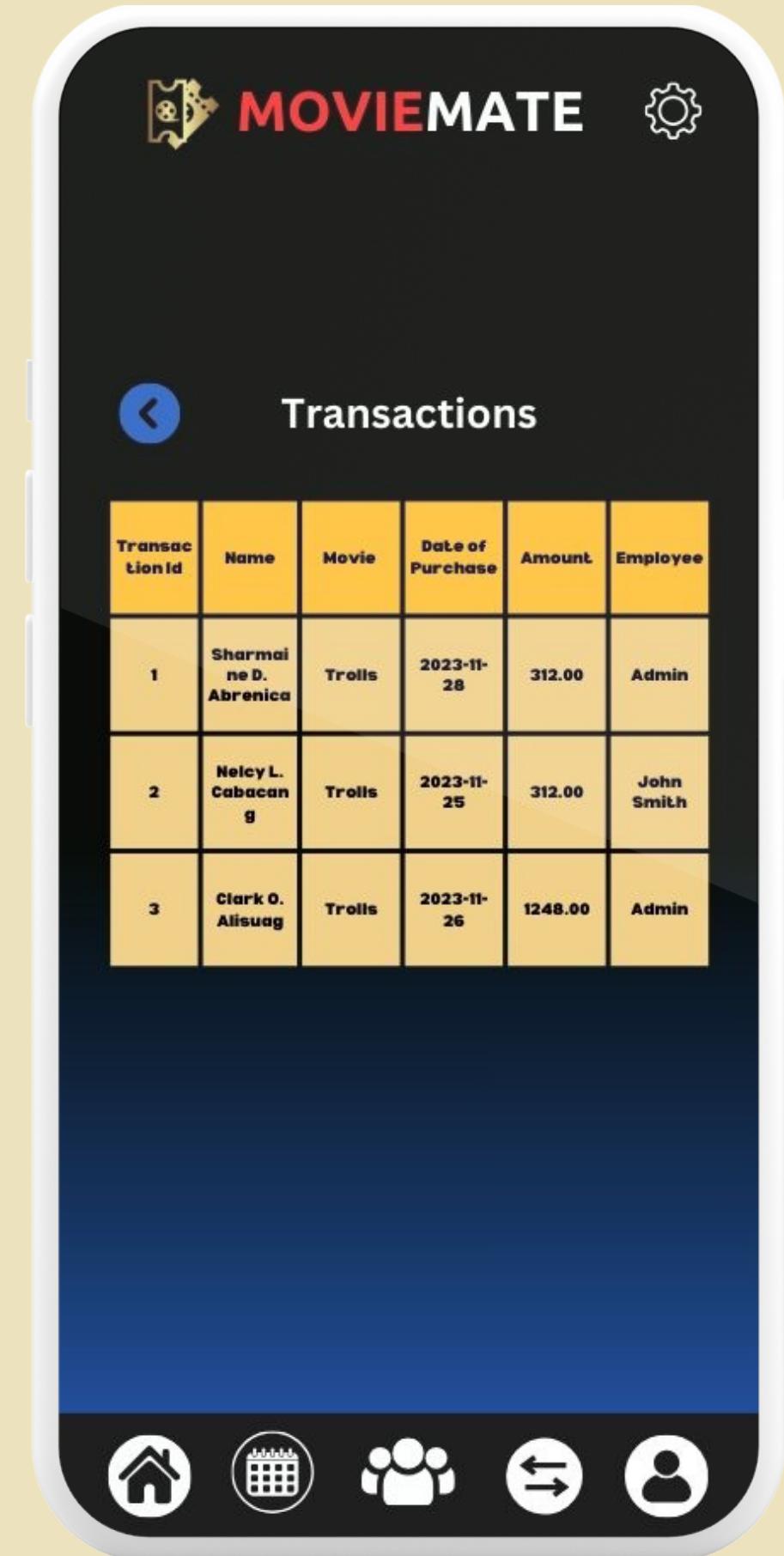
```
DELETE FROM Customer WHERE customer_id =  
customer_id_to_delete;
```



Transactions

QUERY: view the list of transactions

```
SELECT
    Transaction.transaction_id,
    Customer.full_name AS customer_name,
    Movie.title AS movie_title,
    Transaction.amount,
    Transaction.transaction_date AS date_of_purchase,
    Employee.employee_name AS employee_name
FROM
    Transaction
JOIN
    Customer ON Transaction.user_id = Customer.customer_id
JOIN
    Movie ON Transaction.movie_id = Movie.movie_id
JOIN
    Booking ON Transaction.user_id = Booking.user_id
JOIN
    Employee ON Booking.employee_id = Employee.employee_id;
```



Opening the Application

