

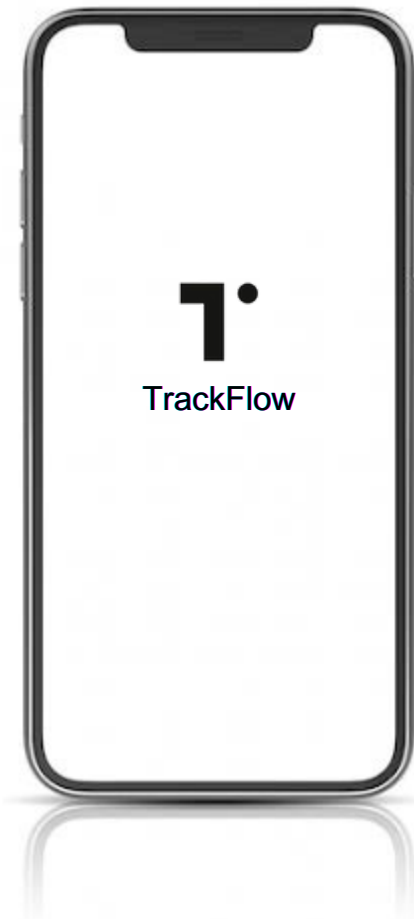
The background features a light beige base with several organic, flowing shapes in a darker tan color. A single, continuous white line meanders across the composition, starting from the top right, looping around the central text, and extending towards the bottom left.

1.

Transaction Tracker

Tracking Application

**Opening the
Application**



Background of the Study

The background of this study can be rooted in the challenges faced by businesses in handling cashier transactions manually or with outdated systems. Manual transaction tracking is prone to errors, delays, and lacks the ability to provide real-time insights into financial activities. Outdated systems may not meet the evolving needs of businesses and can hinder the growth potential by restricting the scalability of transaction management processes.

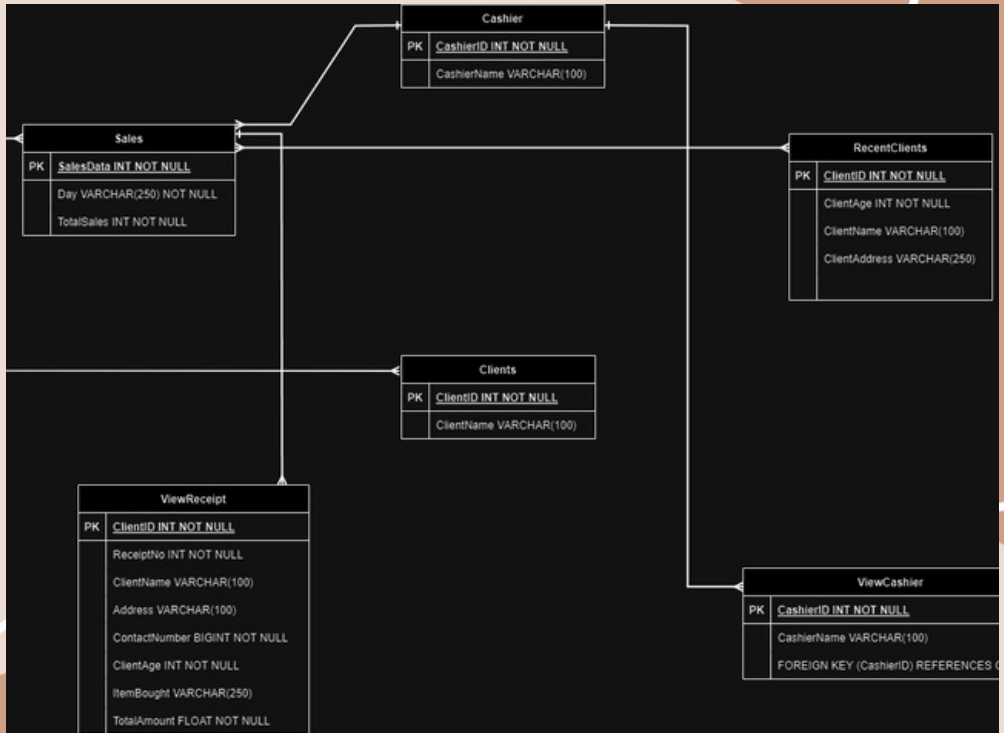
The advent of technology has opened up opportunities to address these challenges. Developing a robust Data Management System (DMS) specifically tailored for cashiers can revolutionize the way transactions are handled. Such a system could incorporate features like real-time transaction recording, automated report generation, user authentication, and secure data storage. The aim is to not only streamline the cashier's workflow but also to provide management with accurate and timely data for decision-making.

Problem Statement and System Impact:

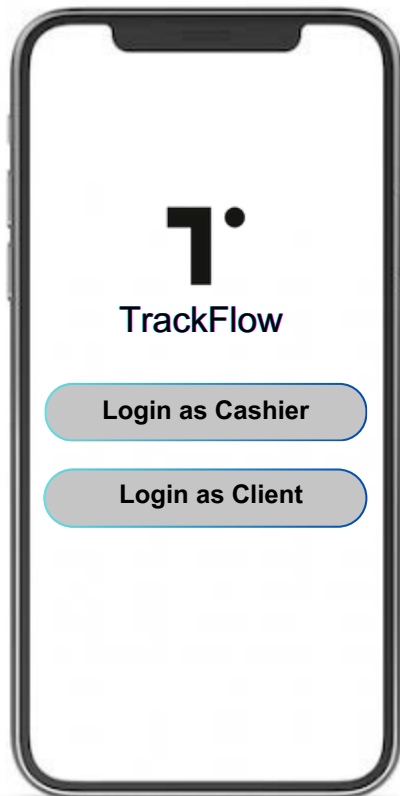
In regular stores, doing transactions the old way can be hard for cashiers and customers. Keeping track of sales, understanding what customers like, and handling returns can get confusing. The

"Transaction Tracker" fixes these issues by doing things automatically, showing real-time sales info, and making the shopping experience personal. It not only makes the cashier's job easier but also makes customers happier, making transactions smoother and more fun for everyone. With the "Transaction Tracker," businesses can become better friends with customers, avoid mistakes in transactions, and quickly adjust to what people want, making shops more flexible and customer-focused.

Database Schema



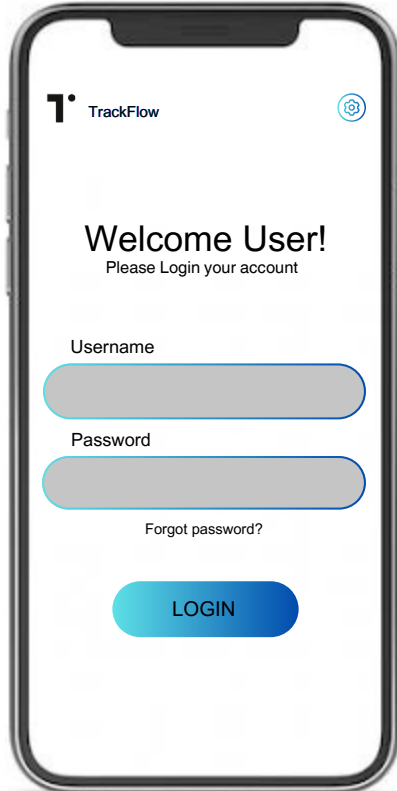
Opening the Application



Login as Cashier

Query:

```
SELECT CashierID FROM  
Cashier WHERE Username =  
'username' AND Password =  
'password';
```



The image shows a mobile application interface for TrackFlow. At the top left is the TrackFlow logo, and at the top right is a settings icon. The main heading is "Welcome User!" followed by the instruction "Please Login your account". Below this are two input fields: "Username" and "Password", each with a grey rounded rectangular input area. Under the password field is a link for "Forgot password?". At the bottom is a blue rounded rectangular button labeled "LOGIN".

TrackFlow

Welcome User!
Please Login your account

Username

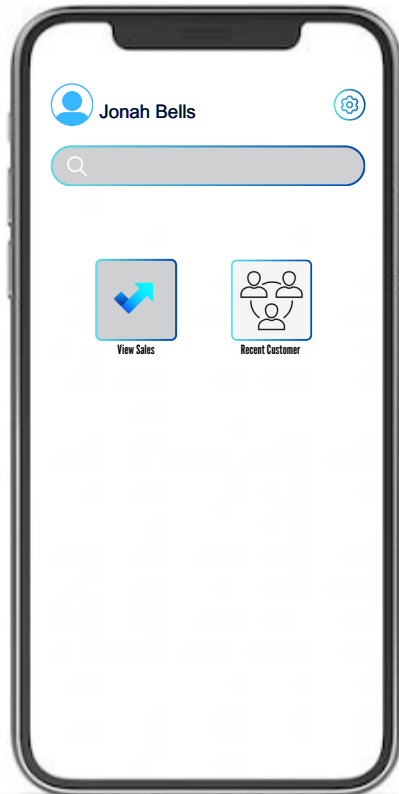
Password

[Forgot password?](#)

LOGIN

Cashier Interface

SELECT * FROM
Cashier;



View Sales

SELECT * FROM
Sales;



View Sales

Query

```
-- Update TotalSales for Wednesday to 350
UPDATE Sales
SET TotalSales = 350
WHERE Day = 'Wednesday';
```





Johah Bells



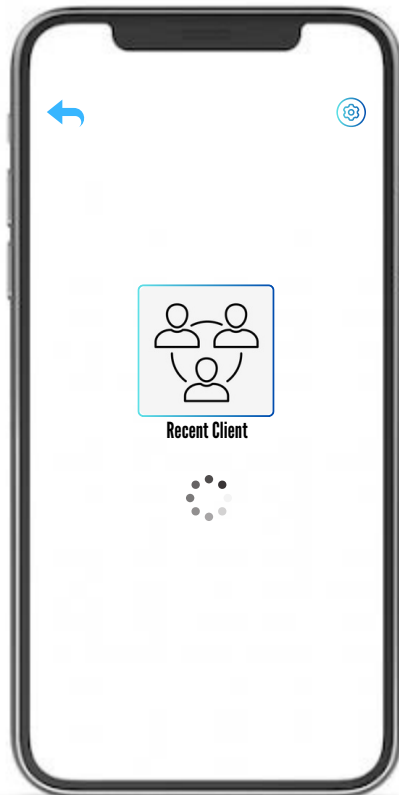
View Sales



Recent Clients

Recent Client

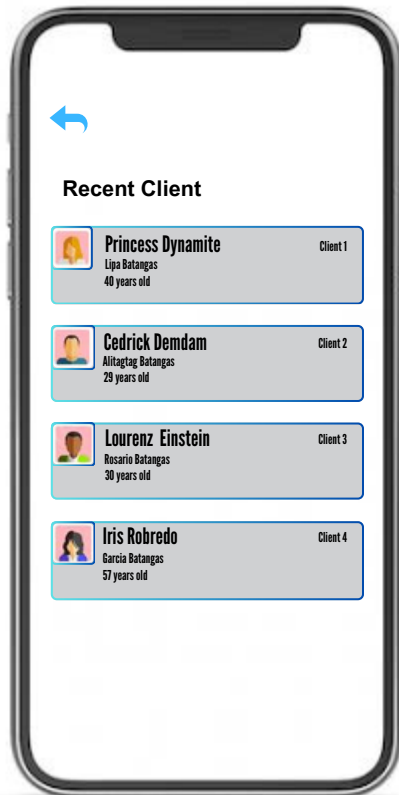
SELECT * FROM
RecentClients;

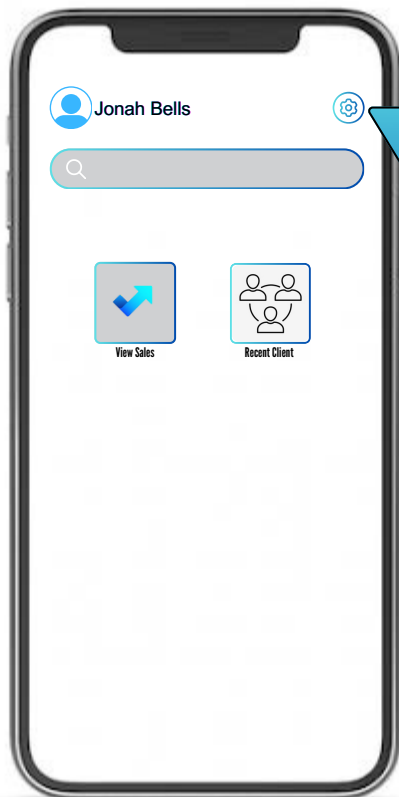


Recent clients

Query

-- Delete the record
with ClientID = 2
from RecentClients
DELETE FROM
RecentClients
WHERE ClientID =
2;





Options

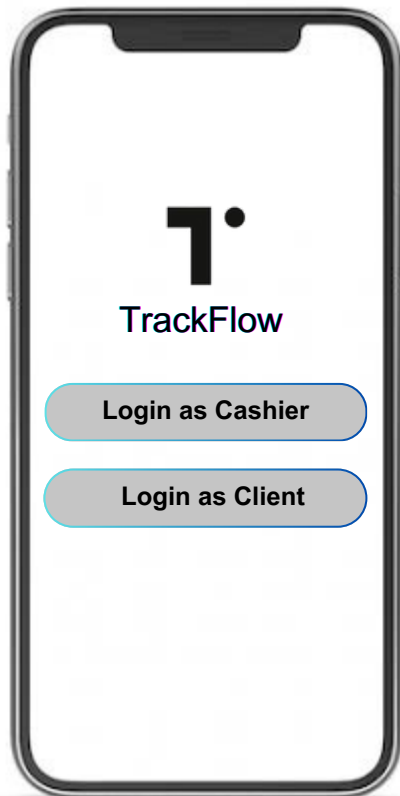


Help

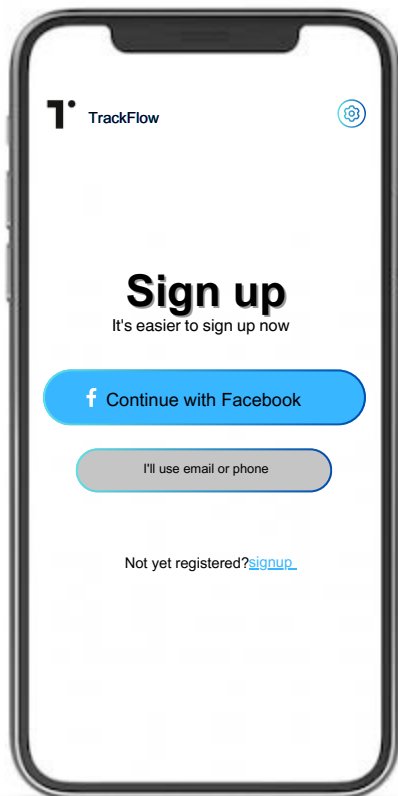


Log out

Opening the Application



Login as Client





Sign Up!

Username

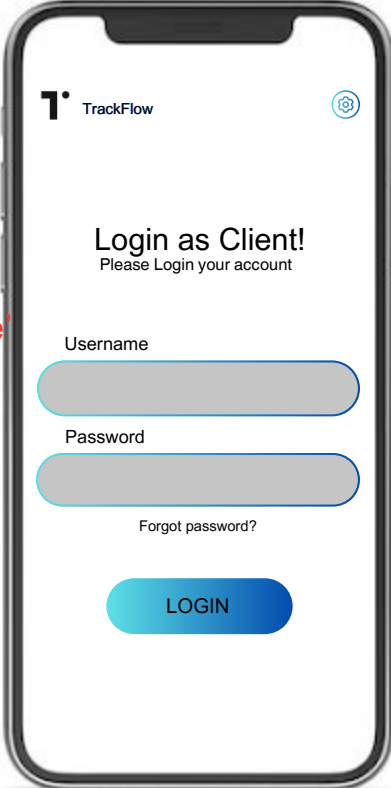
Email Address

Password

Sign up

Login as Client

```
SELECT ClientID  
FROM Client WHERE  
Username = 'username'  
AND Password =  
'password';
```

A smartphone displaying the TrackFlow mobile application's login screen. The screen has a white background with a black status bar at the top. The TrackFlow logo, consisting of a stylized 'T' and the text 'TrackFlow', is in the top left corner. A circular icon with a gear and a plus sign is in the top right corner. The main heading is 'Login as Client!' in bold black text, followed by the subtitle 'Please Login your account' in a smaller font. Below this are two input fields: 'Username' and 'Password', each with a light gray rounded rectangular field and a blue border. A link 'Forgot password?' is centered below the password field. At the bottom is a large blue rounded rectangular button with the text 'LOGIN' in white capital letters.

TrackFlow

Login as Client!
Please Login your account

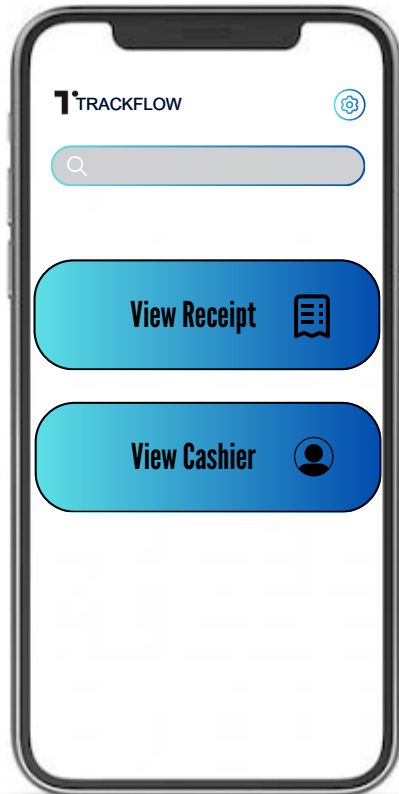
Username

Password

[Forgot password?](#)

LOGIN

Client Interface

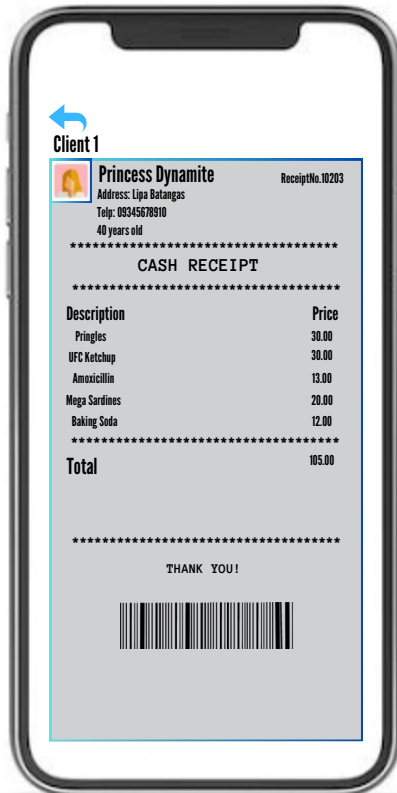


View Receipt

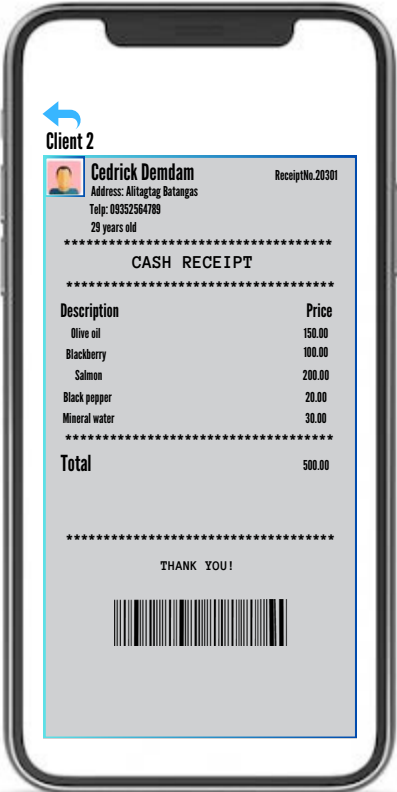


Receipt Client 1

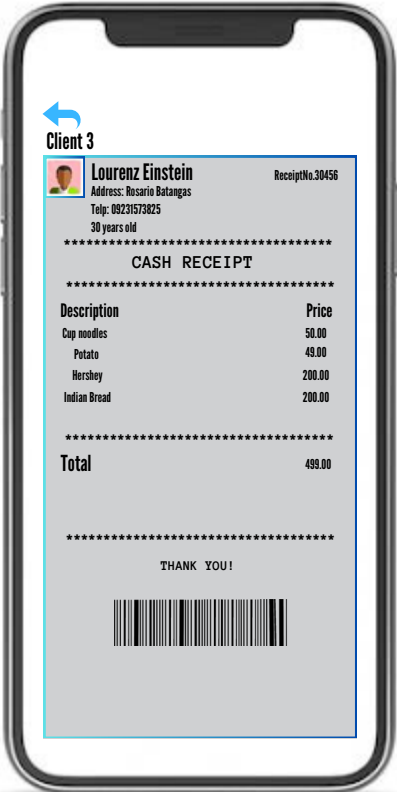
SELECT * FROM
ViewReciept;



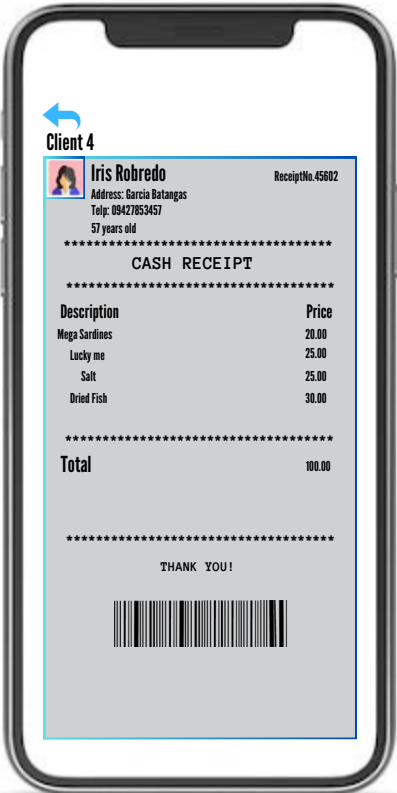
Receipt Client 2



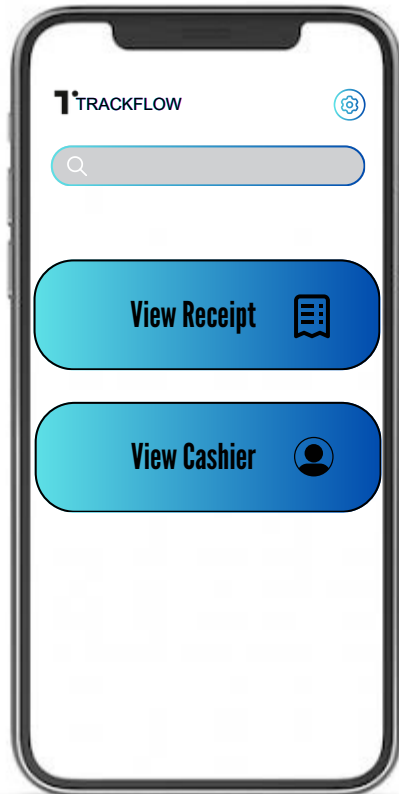
Receipt Client 3



Receipt Client 4



Client Interface



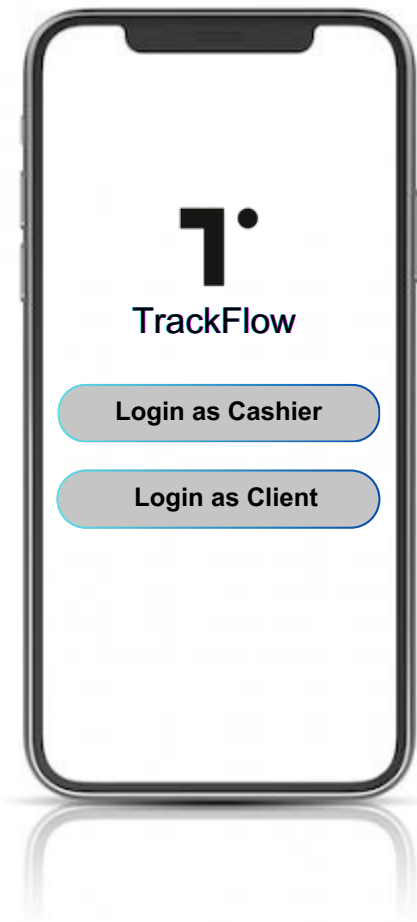
View Cashier



View Cashier



Back to main Menu



Thank You!

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