Chapter No. 04

Module

This segment shows the integration of the modules with each other to execute the functionalities and workflow of the application. These are the following module wise description.

**App Modules :**

* Login Module

Login Module enables secure access to the app, with Smart Access ensuring only authorized operators can login and track records. Access is managed manually through Firebase, restricting public usage.

* Sales Man Records

Sales Man Records module displays real-time graph representations of salesperson recovery, remaining balances, loan details, empty recovery, and other relevant information.

* Employee

Employee module maintains comprehensive records of employees, including loans, recoveries, remaining balances, credit/debit details, and balance information. Records are managed and organized by dates.

* Advance Features

Advanced Features module offers additional functionalities such as deleting bank records and viewing transaction details, including date, amount, credit/debit records, and other relevant information. It also includes session security and supports fingerprint authentication for operator login and distribution management.

**Website Modules :**

* Stocks Module

Manage inventory of RGB 500 ml, 1000 ml, 1500 ml, and other variations. Submit stock orders, access comprehensive stock data, and calculate current stock levels.

* Daily Sale

Oversee inventory management and transactions by drivers. Ensure efficient handling of sales and returns.

* Empty

Manage returned empty stocks, including pallets from the company and third-party entities. Maintain real-time records in the warehouse.

* Sales Man Recovery:

Track individual salespeople's records, including loan recovery, balances, and deletion. Support credit and debit functionalities.

* Sales Man (Record Book):

Comprehensive log of credit and debit transactions for salespeople. Monitor sales performance and history.

* Other Staff (Record Book):

Detailed credit and debit records for all staff members. Track performance and financial activities.

* Employee Recovery:

Consolidate employee loan recovery data for effective management and analysis by month and date.

* Daily Expenses and Closing:

Record distribution expenses, vehicle expenses, and miscellaneous expenses. Track cash, bank transfers, and daily closing records.

* Vehicle Expenses

Track monthly vehicle-related expenditures with filtering options.

* Miscellaneous Expenses

Categorize various expenditure types like distribution, construction, stationery, and food expenses.

* company Credit Debit

Add debit transactions (e.g., incentives) and credit transactions (e.g., uniform expenses). Manage company finances.

* Tax

Maintain monthly tax payments and closing balances with filtering capabilities.

* Billls

Manage distribution-related bills and keep records of service providers' invoices.

* **Net Profit:**

Calculate overall profit considering expenses, discounts, sales, stock levels, incentives, and net profit.

* **Rate Manager:**

Efficiently manage prices for different stocks. Set rates for future calculations.

* **Promo Manager:**

Add promotions or discounts for stock items separately.

* **Investor:**

Maintain a list of investors with their details, credit/debit information, and transaction history.

* **Balance Sheet:**

Generate comprehensive balance sheets with debit and credit records.

* **Daily Activity:**

Access daily records, including work start time, detailed table, and printable information.

* **Profit & Loss:**

Detailed overview of financial status, including profit/loss, balances, and credit/debit records.

Framework

Below was the given framework description that take part in the building of the application.

React

React is a JavaScript library for building user interfaces. ReactJS is used for developing web applications, allowing developers to create reusable UI components and efficiently manage application state. React Native, on the other hand, is a framework for building mobile applications using JavaScript, providing a cross-platform solution with native-like performance. Both ReactJS and React Native leverage React's component-based approach for creating dynamic and interactive user interfaces.

Library

This was the following library description that participate in the workflow of the application.

React JS

Our website, powered by ReactJS, offers a range of modules designed to streamline inventory management and financial activities. From managing stock levels and overseeing sales to tracking employee loans and generating balance sheets, our website provides comprehensive tools for efficient business operations. With a user-friendly interface and real-time data tracking, businesses can easily monitor their daily activities, track expenses, and calculate net profit. ReactJS enables us to deliver a responsive and intuitive website experience, ensuring smooth navigation and effective management of crucial business functions.

React Native

Our app, built with React Native, offers a range of modules for enhanced functionality. The Login Module ensures secure access, with Smart Access and Firebase integration providing restricted usage. Sales Man Records module displays real-time graphs of salesperson metrics. The Employee module maintains comprehensive records, including loans and balances. Advanced Features module enables deletion of bank records, viewing transactions, and session security with fingerprint authentication. With React Native's cross-platform capabilities, our app delivers a seamless user experience on both iOS and Android platforms.

Database

This was the following database used at the back-end of the application & Website Smart Access.

Firebase

This is a cloud based realtime no structure query language (NoSQL) database provided by Google, that stored data in Javascript Object Notation (JSON) format and synchronize it.This was used in the application as back-end database.

Summary

This chapter explained the modules that integrates with each other to functional the application. Furthermore, it discussed the library, framework, database that participate in the workflow of the application.