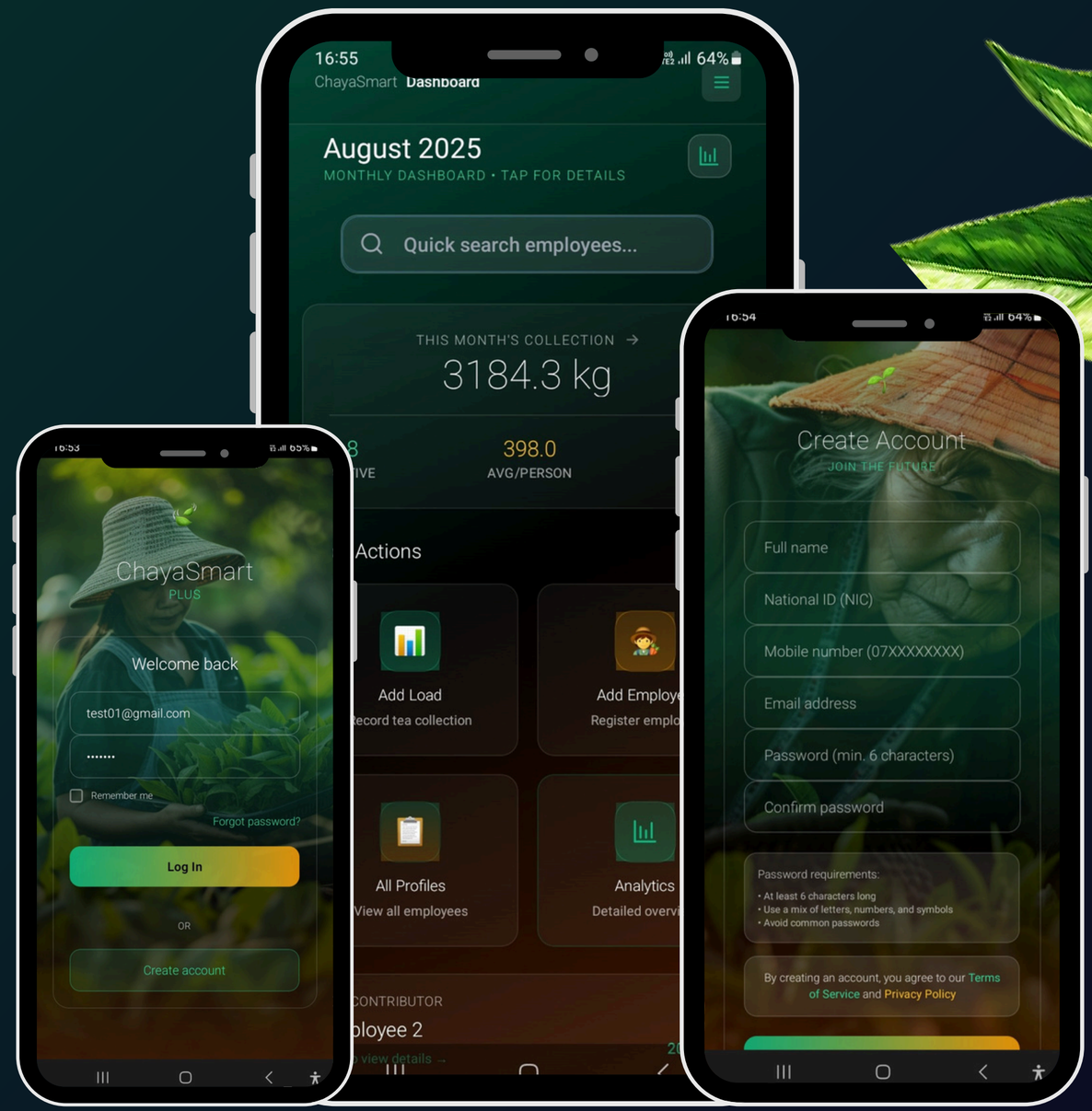
CHAYA SMART
PLUS +

Chaya Smart Plus+



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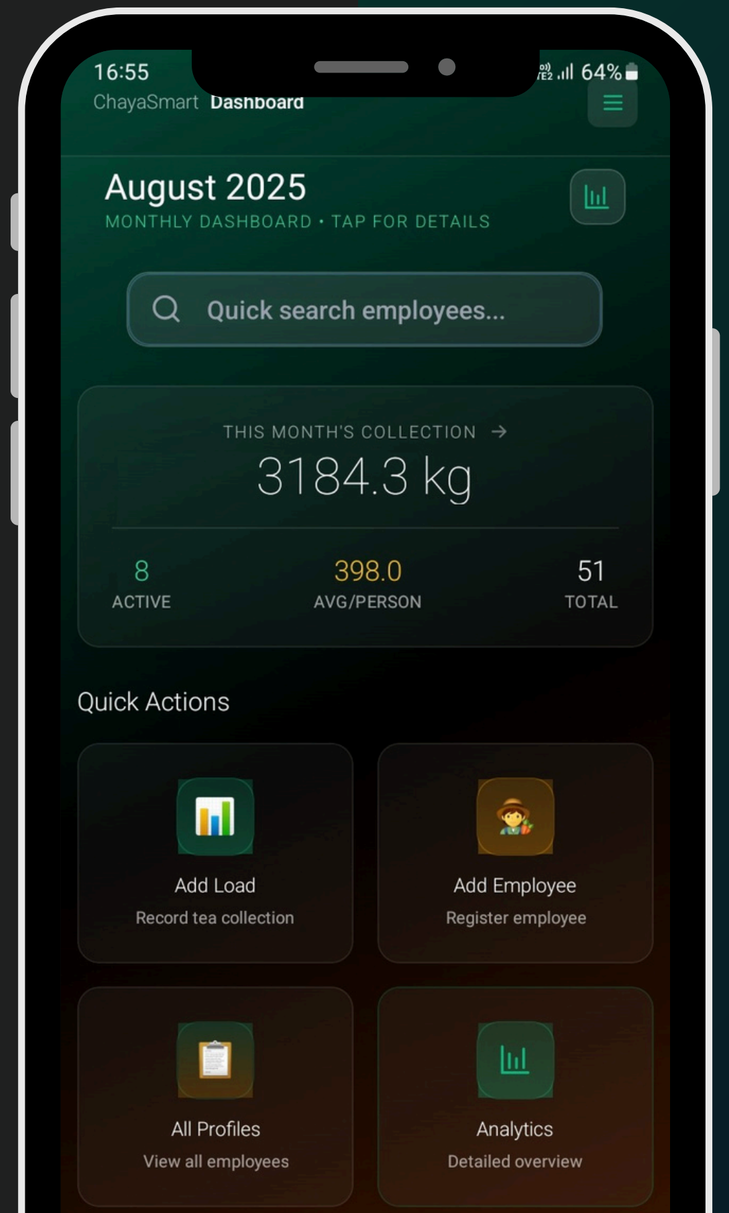

Chaya Smart Plus: A Mobile-Based Smart Administration System for Tea Collection Centers

ChayaSmartPlus is a mobile-based administration system designed to streamline tea collection center operations. Built with React Native, Supabase, and Firebase, the app enables real-time tea load entry, employee management, and performance tracking through a user-friendly interface. It replaces manual processes with a smart, efficient, and data-driven solution.

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Problem

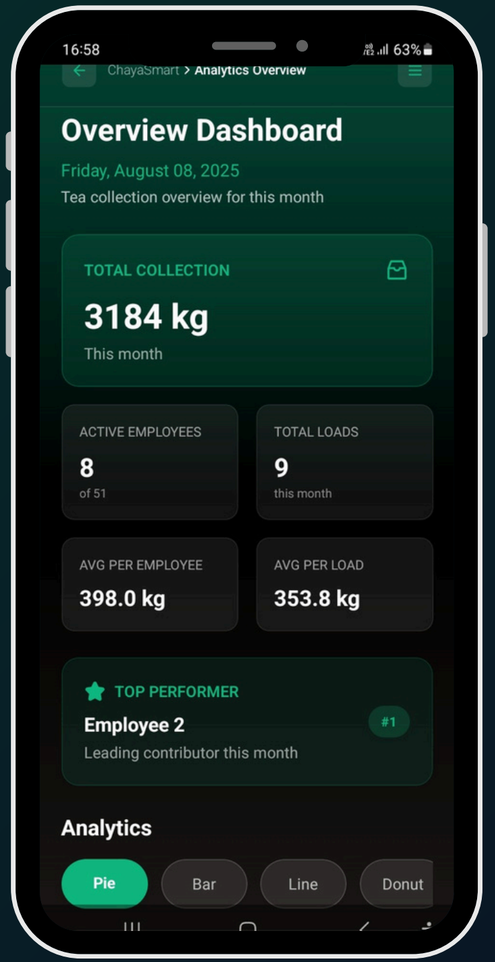
01 Inefficiency: Manual recording slows down the process and increases administrative workload.

02 Data Loss Risks: Paper-based or offline data entry methods are prone to damage, misplacement, or accidental deletion.

03 Lack of Real-Time Access: Stakeholders and supervisors cannot view up-to-date tea delivery data unless they are physically present.

04 Difficulty in Monitoring Performance: There's no easy way to view which workers contributed most or least during a specific period.

05 No Integrated Reporting: Exporting summaries or charts for monthly tea loads is time-consuming and requires manual compilation.



Our Mission

To revolutionize tea collection center operations by delivering a smart, mobile-first platform that ensures accuracy, efficiency, and transparency in tea load and employee management, empowering stakeholders with real-time data and insights.

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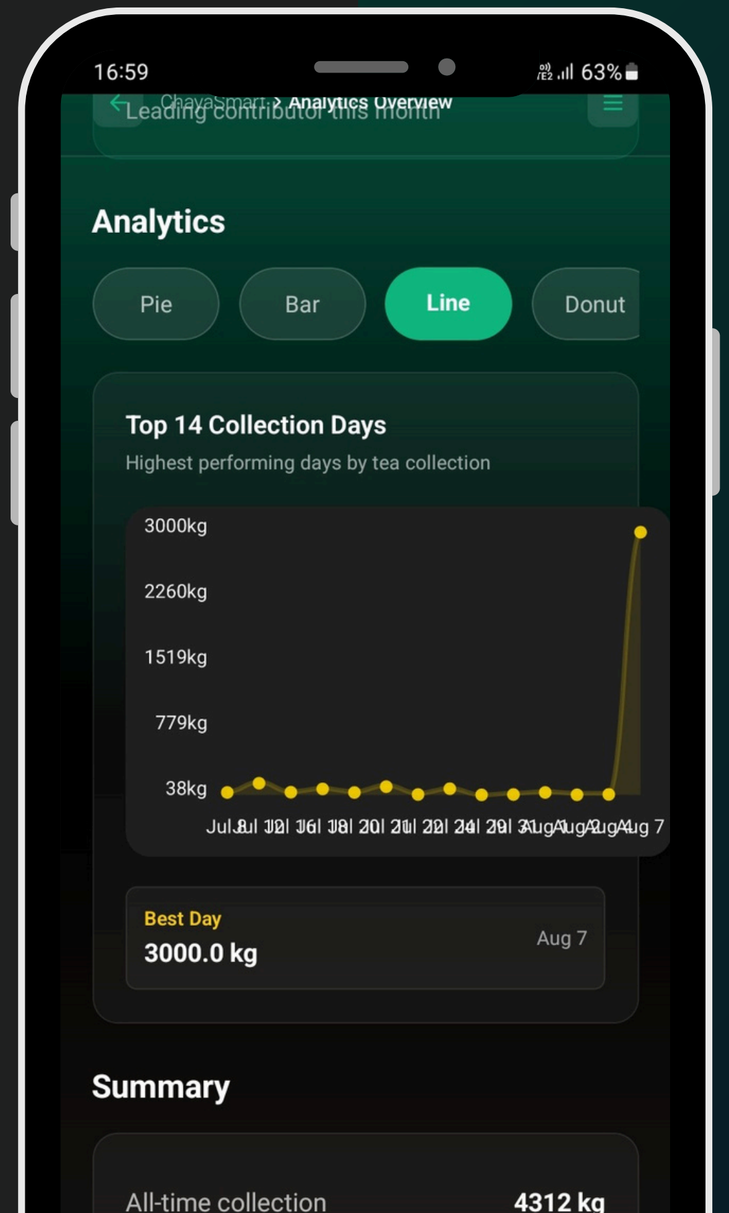

System Architecture

Frontend (Mobile App)

- Built with React Native and Expo for Android devices.
- Offers a user-friendly interface to:
- Add/view employees
- Log tea load weights
- View statistics and charts
- Manage profiles and perform secure login

Authentication Service (Firebase Auth)

Handles:

- User registration and login via email/password
- Password reset via email
- Session management

Ensures only authorized admins access sensitive operations.

Backend Database (Supabase)

- Provides cloud-hosted PostgreSQL database with REST APIs.

Stores:

- employees table (name, NIC, address, mobile)
- tea_loads table (NIC, weight, date)
- Enables real-time updates and filtering for reports.

Data Flow

- Admin logs in → Firebase verifies user → App fetches employee and tea load data via Supabase.
- All updates (add/edit/load) are pushed to Supabase and immediately reflected in the UI.
- Dashboard analytics are calculated client-side based on data from Supabase.

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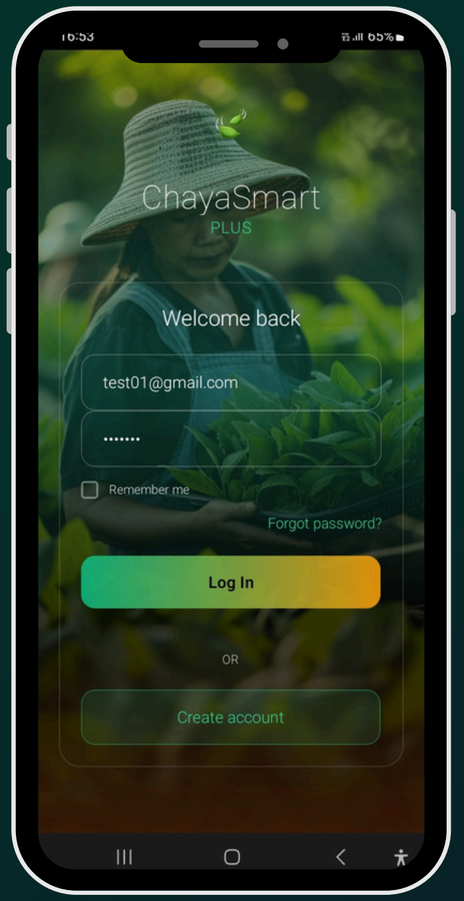
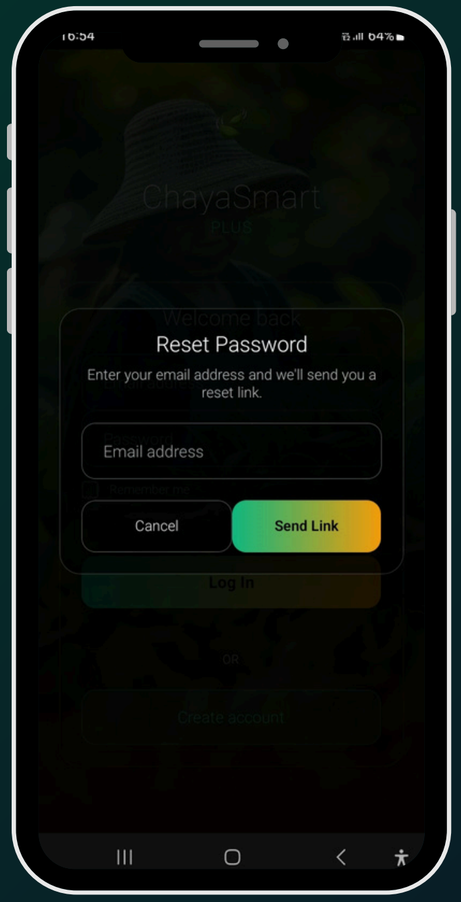
UI Design

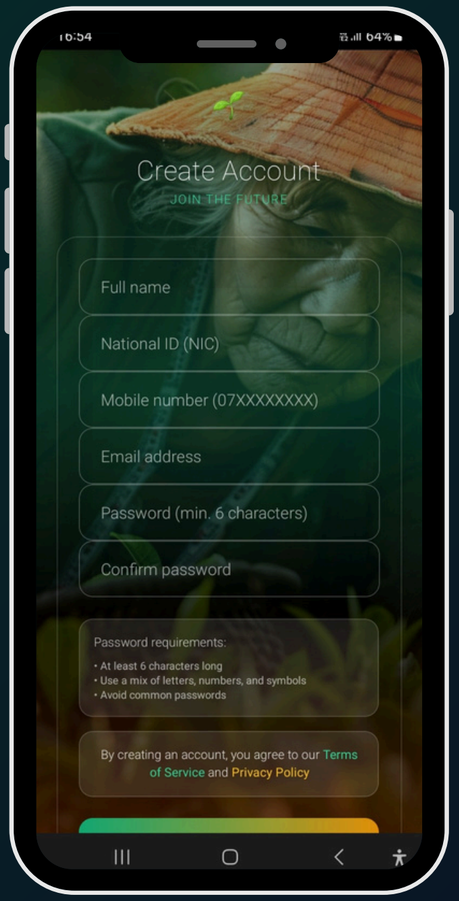
Login



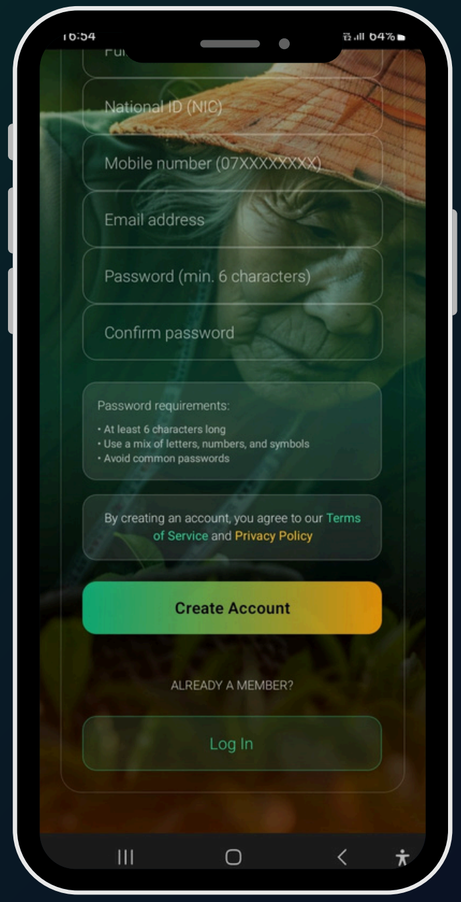
Password reset



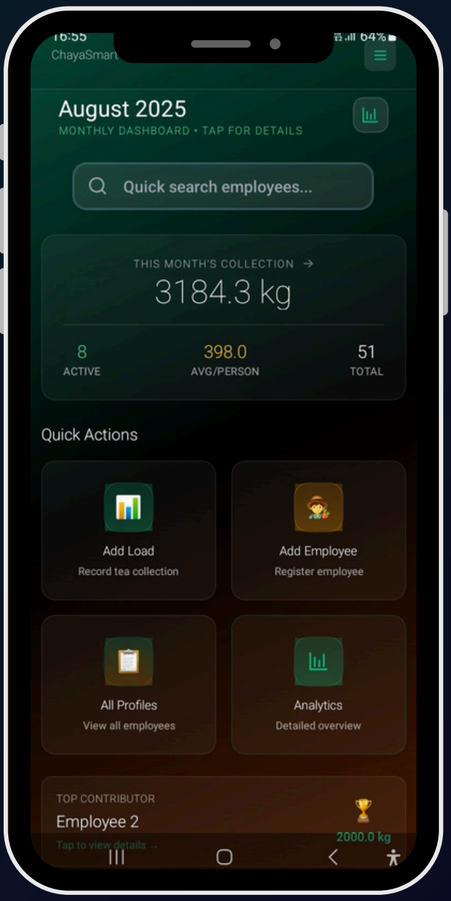
Signup



Signup



Dashboard



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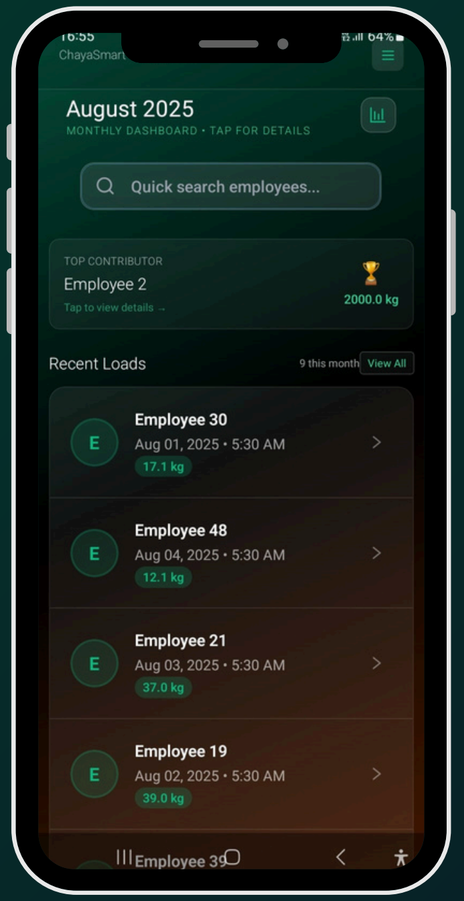
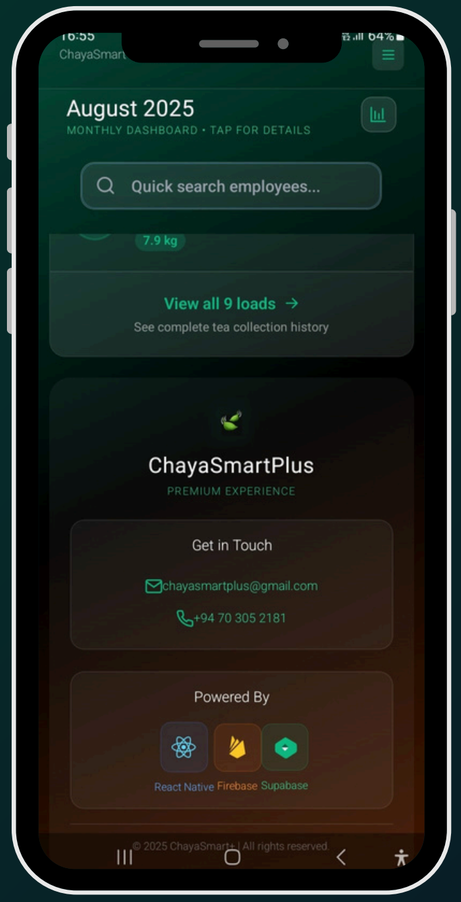
UI Design

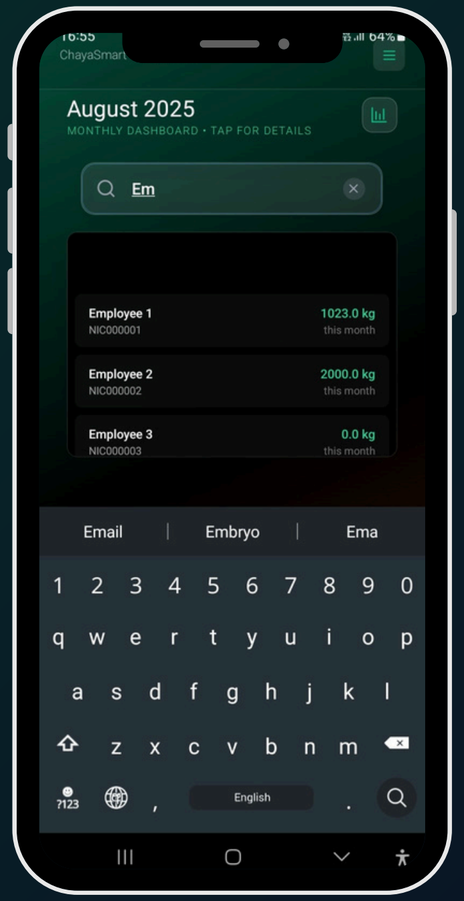
Dashboard



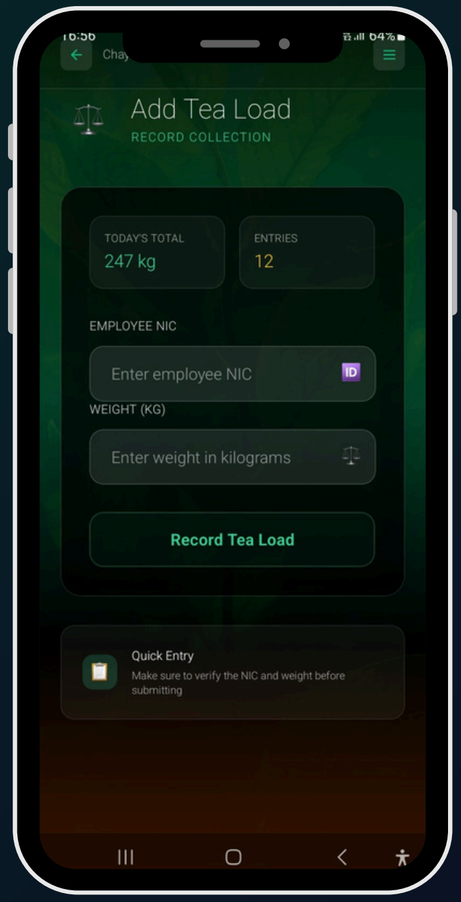
Footer



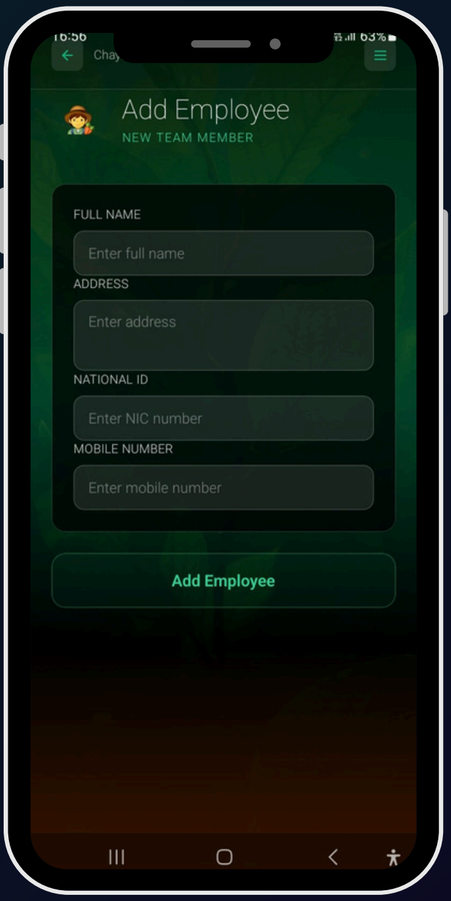
Searchbar



Add Load



Add Employee



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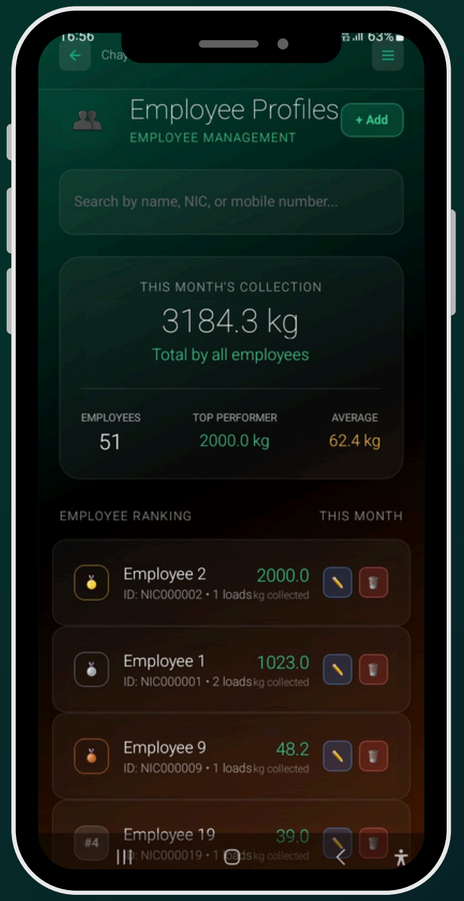
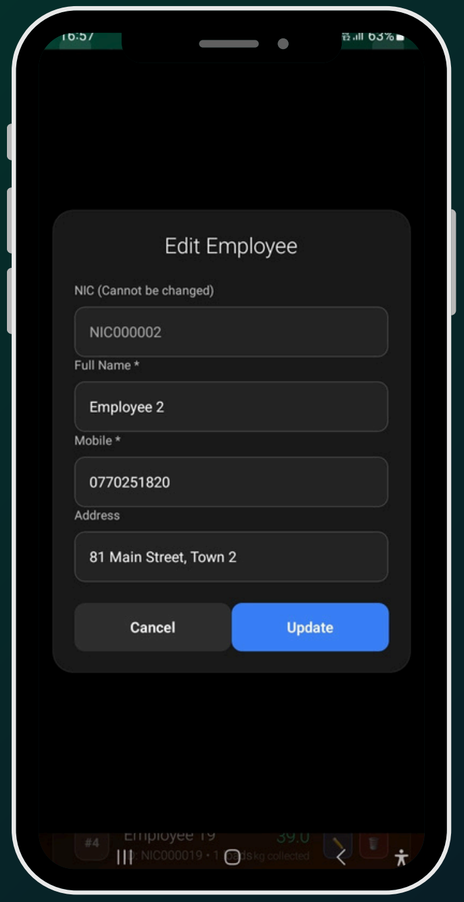
UI Design

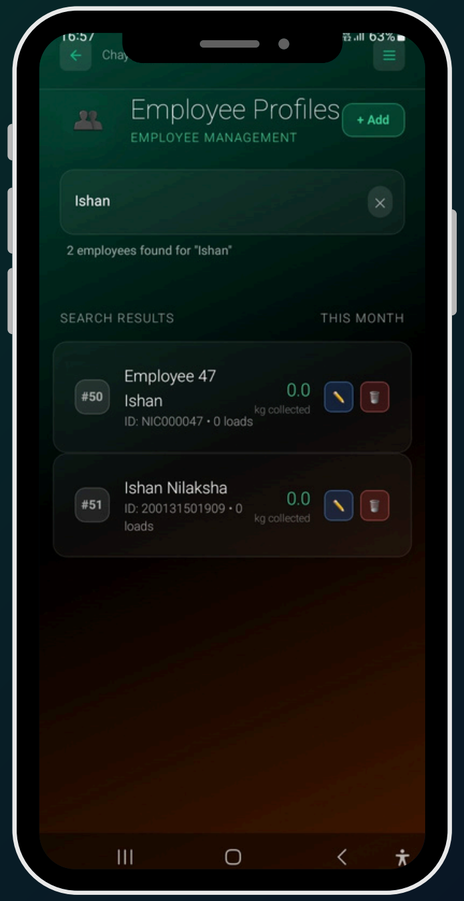
Employees



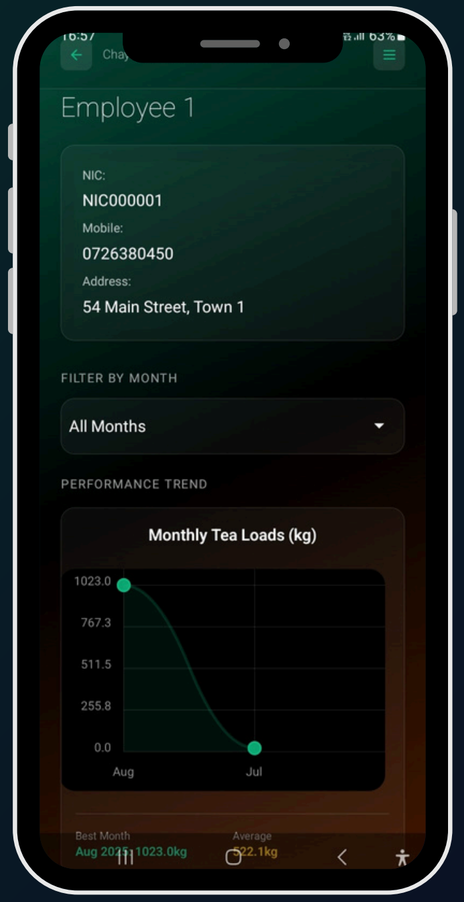
Edit Details



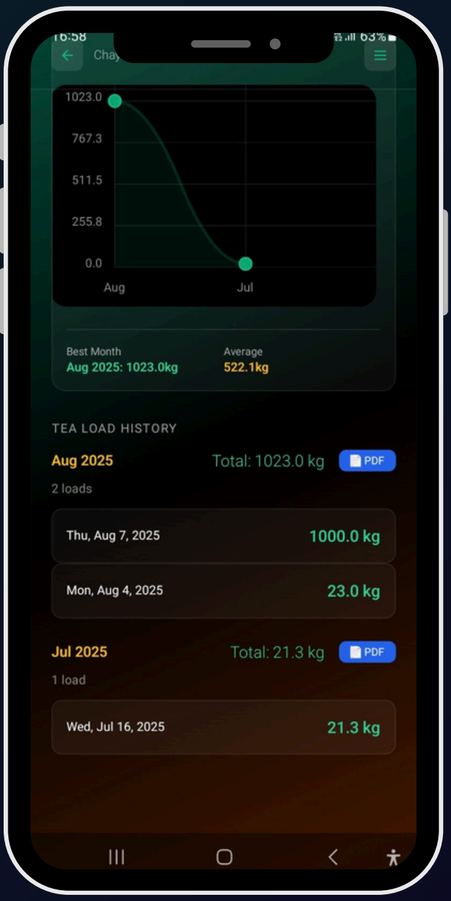
Filtering



Employee Profile



Employee Profile



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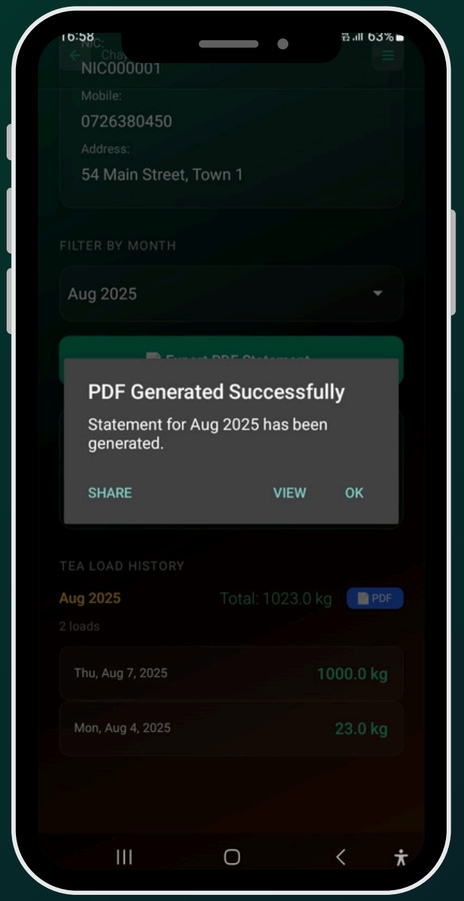
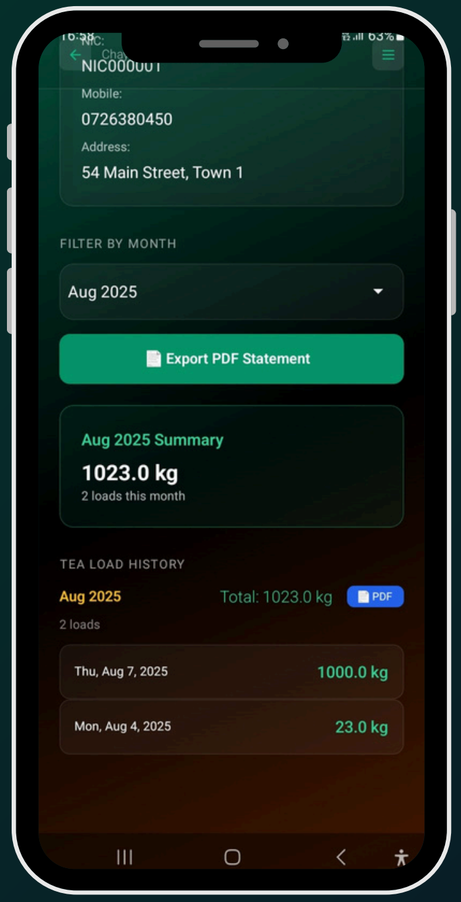
UI Design

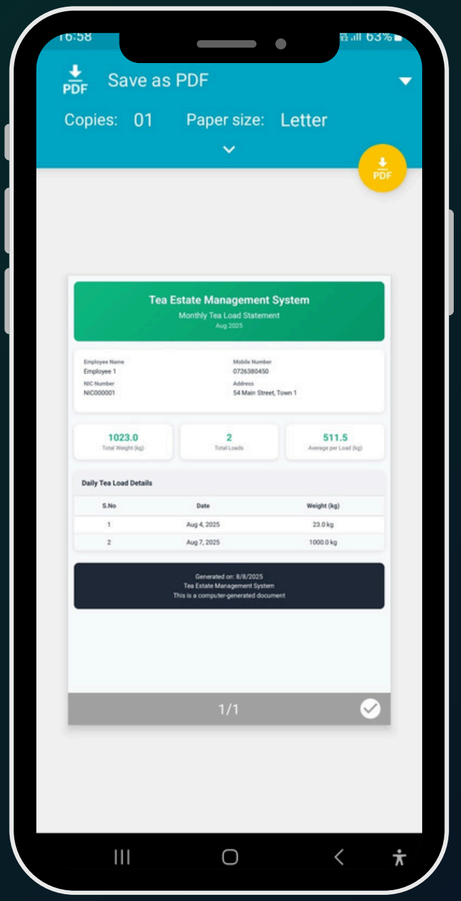
Report Generator



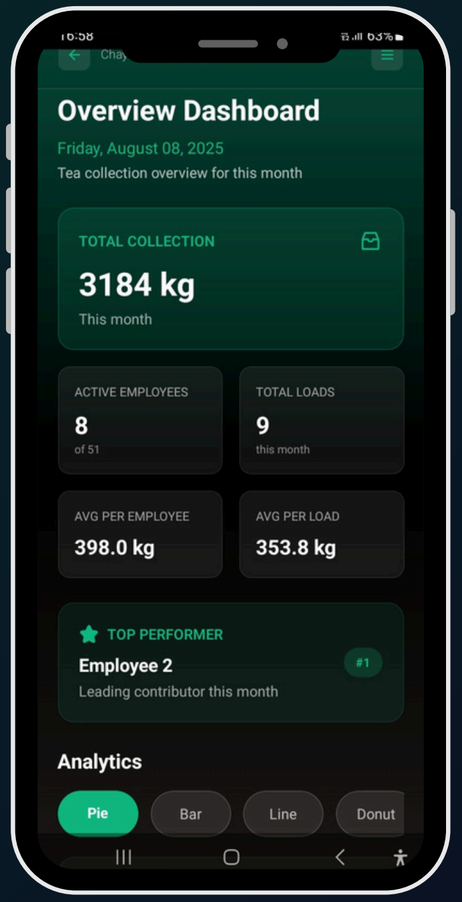
Filter



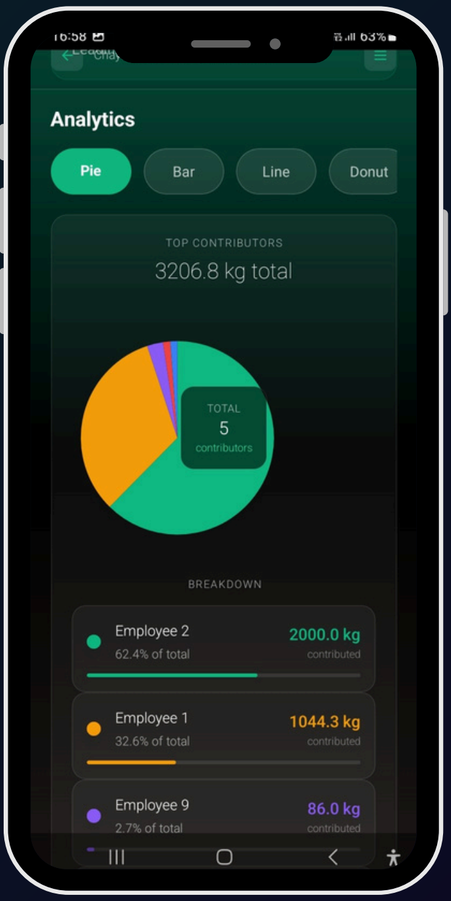
Report



Overview



Pie Chart



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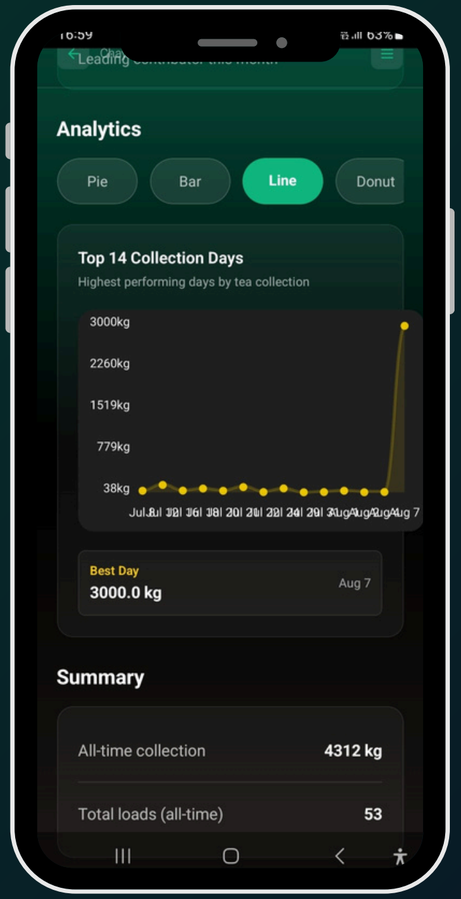
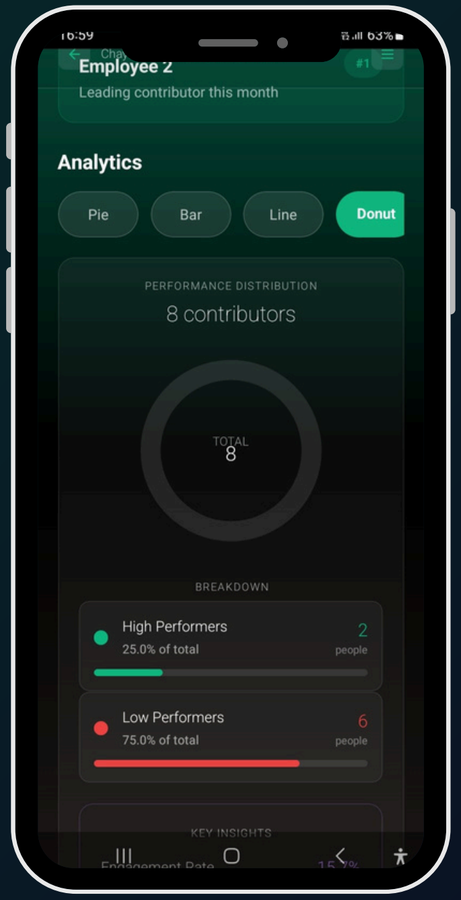
UI Design

Bar Chart

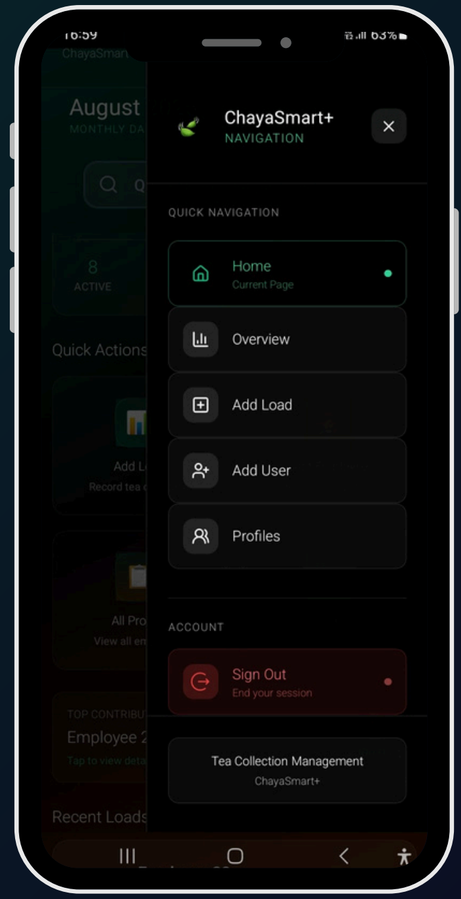
Line Chart



Donut Chart



Nav Bar



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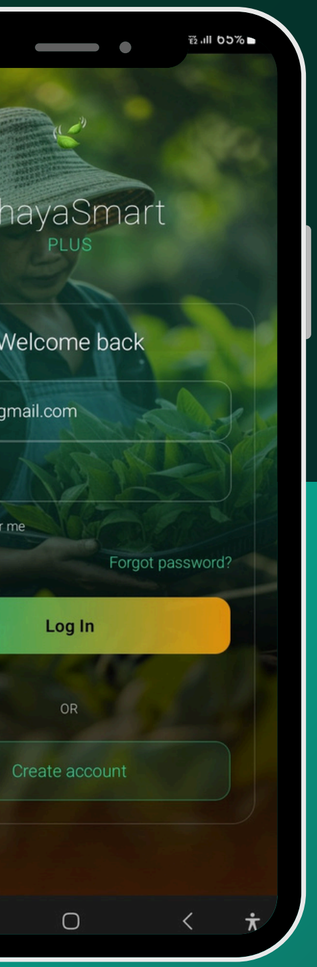

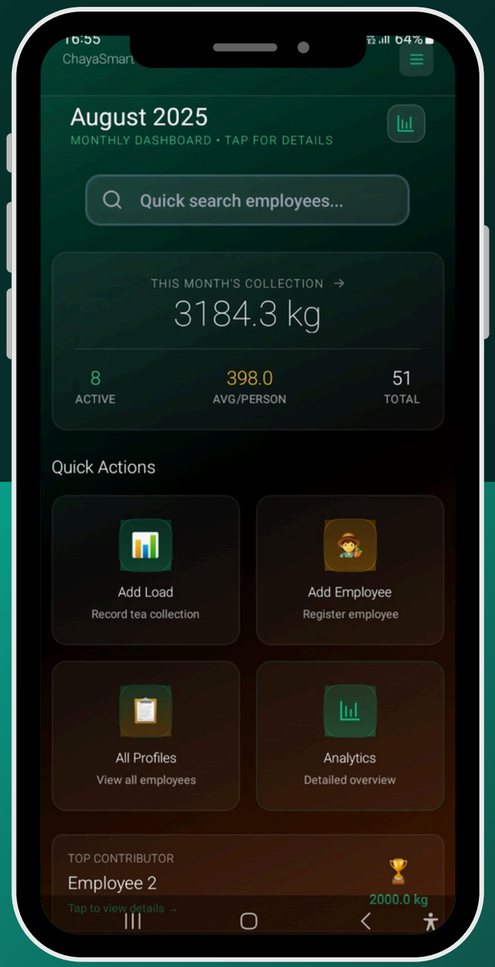

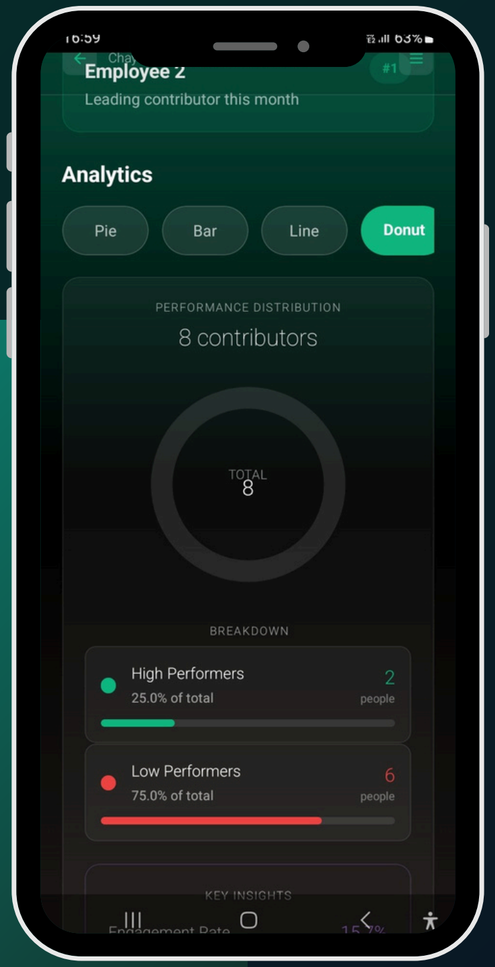

Technologies

supabase

Expo

TS

Firebase

Tailwind CSS