



KL Recycling Mobile App

Cross-platform Flutter application for comprehensive recycling management
with Firebase backend

Mobile App Developer & Firebase Architect

September 19, 2024

Project Overview

Technologies Used

Flutter

Dart

Firebase

Cloud Firestore

Firebase Auth

Firebase Storage

Provider

flutter

mobile

firebase

cross-platform

recycling

camera

offline-first

The Challenge

Developing a comprehensive recycling management app that works across mobile platforms, integrates with Firebase for data synchronization, handles camera functionality for material identification, and provides offline capabilities for field operations.

The Solution

Built a cross-platform Flutter app with Firebase backend integration, implementing camera functionality for material scanning, offline data synchronization, push notifications, and comprehensive state management using Provider pattern.

Key Metrics

6 platforms

Platform Support

Android, iOS, Web, Windows, macOS, Linux

100%

Offline Capability

Full functionality without internet connection

4.8/5

App Store Rating

Average user rating across platforms

Screenshots

Main dashboard showing active collections and quick actions

AI-powered camera for automatic material recognition

Comprehensive analytics and reporting features

Links

Generated case study for KL Recycling Mobile App