

AgriMart Mobile Application Information

Summary

AgriMart is a React Native mobile application for agricultural e-commerce, enabling farmers to buy agricultural inputs, groceries, and access climate information. The app features user and admin interfaces with authentication, product management, and order processing capabilities.

Structure

- frontend/: Main React Native application
 - src/: Application source code (components, screens, navigation)
 - components/: Reusable UI components including SplashScreen
 - screens/: Application screens (28+ screens including auth, shopping, admin)
 - navigation/: Navigation configuration (HomeTabs, AdminTabs)
 - context/: React context providers (LanguageContext)
 - translations/: Internationalization files (English and Kannada)
 - hooks/: Custom React hooks
 - services/: API and external service integrations
 - utils/: Utility functions and helpers
 - android/: Android platform-specific code
 - ios/: iOS platform-specific code
 - assets/: Images and static resources (logos, banners, onboarding images)
 - **tests**/: Test files location
- Root directory: Contains configuration files and utility scripts

Language and Runtime

Language: TypeScript/JavaScript Version: TypeScript 5.0.4 Framework: React Native 0.79.2, React 19.0.0 Build System: Metro bundler Package Manager: npm Node Version: ≥ 18.0.0

Dependencies

Main Dependencies:

- @react-navigation/native 7.1.10
- @react-navigation/native-stack 7.3.14
- @react-navigation/bottom-tabs 7.3.14
- react-native-gesture-handler 2.25.0
- react-native-vector-icons 10.2.0

- react-native-maps 1.24.3
- react-native-localize 3.4.2
- @react-native-async-storage/async-storage 2.2.0
- react-native-image-picker 8.2.1
- react-native-linear-gradient 2.8.3
- react-native-reanimated 3.18.0
- react-native-swiper 1.6.0
- @react-native-community/geolocation 3.4.0

Build and Installation

bash

npm install

npm start

npm run android

npm run ios

npm run lint

Internationalization

Languages: English (en), Kannada (kn) Translation Files:

- src/translations/en.ts
- src/translations/kn.ts Context Provider: LanguageContext Utility Script: update-translations.js

Testing

Framework: Jest 29.6.3 Location: **tests/** Naming Convention: .test.tsx Configuration: jest.config.js Run Command:

bash

npm test

Application Features

User Flow and Authentication:

- Splash Screen
- Onboarding Screen
- User Type Selection
- Phone Login
- OTP Verification

- Name Entry

Regular User Features:

- Home Screen
- Shopping (Agri Inputs and Groceries)
- Cart Management
- Order Processing
- Profile and Address Management
- Order History
- Settings
- Climate/Weather Screen
- Notifications
- Privacy Policy

Admin Features:

- Admin Login
- Order Management
- Inventory Management
- Admin Profile
- Manager Creation

Navigation System:

- Stack Navigation
- Tab Navigation
- Admin Tabs
- Cross-platform Compatibility

Technical Implementation

Architecture Patterns:

- Component-based Architecture
- Context API
- TypeScript Integration
- Navigation Patterns
- Responsive Design

Security Features:

- Phone Number Authentication
- OTP Verification
- Role-based Access
- Privacy Controls

Performance Optimizations:

- React Native 0.79.2
- React 19.0.0
- Gesture Handler
- Reanimated
- Vector Icons

Device Integration:

- Camera and Gallery
- Geolocation
- Maps Integration
- Safe Area Context
- AsyncStorage

System Requirements

- Node.js \geq 18.0.0
- React Native CLI 18.0.0
- Android Studio
- Xcode
- TypeScript 5.0.4

Code Quality and Standards

- ESLint
- Prettier 2.8.8
- TypeScript
- Jest
- Babel

File Structure Overview

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└─ frontend/

```
|  └─ src/
|  |  └─ components/
|  |  └─ screens/
|  |  └─ navigation/
|  |  └─ context/
|  |  └─ translations/
|  |  └─ hooks/
|  |  └─ services/
|  |  └─ utils/
|  └─ android/
|  └─ ios/
|  └─ assets/
|  └─ __tests__/
└─ package.json
└─ README.md
└─ update-translations.js
```