

---

## RationMate – Ration Card Tracker & Festival Benefit Alerts for Kerala

---

### **Abstract**

RationMate is an innovative mobile application developed to assist ration card holders in Kerala by providing quick and reliable access to essential ration-related information. Many users face challenges in knowing their monthly entitlements, staying updated about government distribution schemes, or confirming the availability of ration shops. This application addresses these issues by offering a simple, localized, and offline-accessible platform that works efficiently even in low-connectivity areas.

The application allows users to check ration card details, track allocated ration items, and receive instant notifications about special schemes such as festival kits. An advanced feature of the application is real-time scraping for notifications, which ensures that users receive the latest updates about shop status, distribution schedules, and government announcements without delay. This greatly reduces unnecessary travel and prevents missing out on important benefits.

RationMate includes two primary modules. The user module provides access to card details, real-time alerts, shop status, and complaint submission. The admin module allows authorized personnel to manage distribution alerts, update shop closure schedules, and respond to user queries. Bilingual support in Malayalam and English ensures that the application is accessible to a wide range of users, while offline storage capabilities make it reliable in rural areas.

By improving communication between ration authorities and cardholders, RationMate promotes transparency, convenience, and efficiency in the public distribution system. With its combination of offline functionality, bilingual support, and real-time notification capabilities, RationMate emerges as a community-focused solution that builds trust and enhances the effectiveness of ration services in Kerala.