JADAYU - Smart Ration Delivery: Full Documentation

This document consolidates the project's overview, features, usage, routes, and public APIs (hooks, components, utilities, and integrations) with examples.

Overview

- Product: JADAYU Smart Ration Delivery Service
- · Audience: Developers and operators integrating or extending the app
- Stack: Vite, React 18, TypeScript, Tailwind CSS, shadon-ui, React Router v6, TanStack Query, Supabase

Features

- · Customers/Beneficiaries
 - View ration quota by card type and household size
 - Shop subsidized items, manage cart, place orders
 - Live delivery tracking map and order history
 - Profile management; upload Aadhaar and ration card documents
 - Personal QR for secure delivery verification
- · Delivery Partners
 - View approved and assigned orders
 - Navigate to delivery address, scan customer QR, confirm delivery
 - Earnings summary (demo)
- Admin/Shop Owner
 - Inventory management for ration items (CRUD)
 - Review incoming orders; approve/reject; update statuses
 - Dashboard with stats (orders, revenue, customers, inventory value)

How to Use (Role-based)

- Customer
 - 1. Sign up/sign in (/auth)
 - 2. Complete profile and upload docs in Profile
 - 3. Check Quota, browse Shop, add items to cart
 - 4. Place order (identity verification dialog simulates checks)
 - 5. Track delivery in Track or see History
- Delivery Partner
 - 1. Sign in \rightarrow DeliveryDashboard
 - 2. Accept orders, navigate, scan QR, confirm delivery
- Admin
 - 1. Sign in \rightarrow AdminDashboard
 - 2. Manage inventory and approve/reject orders

Route Map

- /auth : authentication
- /: role router → AdminDashboard | DeliveryDashboard | CustomerDashboard

- /shop , /quota , /track , /history , /cart , /payment , /profile
- /incoming-orders (admin), /beneficiaries (admin), /qr-scanner (delivery demo)
- /verify/:id : delivery verification view

Hooks API

useAuth and AuthProvider

- State: user, session, profile, loading
- Actions: signIn , signUp , signOut , refreshProfile , devSignIn , devSignOut

Example

useCart

- State: lines , totalItems , totalAmount
- Actions: add , remove , clear

Example

```
);
}
```

useIsMobile

```
import { useIsMobile } from "@/hooks/use-mobile";
const isMobile = useIsMobile();
```

useToast and toast

```
import { useToast } from "@/hooks/use-toast";
const { toast } = useToast();
toast({ title: 'Saved', description: 'Your changes were saved.' });
```

Components API

Layout and Navigation

- MainLayout({ children }) : shell with header and mobile bottom nav
- NavHeader({ userName?, userRole? }) : role-aware navigation
- MobileSidebar({ userName?, userRole? }) : mobile sheet navigation

Shopping and Quota

- RationItem({ id, name, price, image, available, unit, subsidized?, onAddToCart, onRemoveFromCart, cartQuantity? })
- QuotaCard({ quotaItems: { name, allocated, used, unit }[], cardNumber, validUntil })
- DocumentUpload({ userId, bucket, folder, label, accept?, currentUrl?, onUploaded? })
- VerificationDialog({ isOpen, onClose, beneficiary, onVerificationComplete })

Examples

```
<RationItem id="rice" name="Rice" price={25.5} image={url} available={5} unit="kg"
  onAddToCart={(id,q)=>{}} onRemoveFromCart={(id,q)=>{}} cartQuantity={2} />

<QuotaCard quotaItems={[{ name:'Rice', allocated:10, used:3, unit:'kg'}]}
  cardNumber="XXXX-XXXX-1234" validUntil="Dec 2024" />

<DocumentUpload userId={uid} bucket="documents" folder="aadhaar" label="Upload Aadhaar"
  onUploaded={(url)=>setUrl(url)} />

<VerificationDialog isOpen={open} onClose={()=>setOpen(false)} beneficiary={b}
  onVerificationComplete={()=>refetch()} />
```

UI Kit

 Import shadon-ui components from @/components/ui/... (e.g., Button, Card, Dialog, Tabs, Table, Progress)

Utilities

```
cn(...inputs)
```

```
import { cn } from "@/lib/utils";
<div className={cn('p-4', isActive && 'bg-primary', 'text-foreground')} />
```

Integrations

Supabase

- Client: @/integrations/supabase/client
- Use for auth (useAuth), storage (DocumentUpload), and DB queries (orders, profiles, ration_items)
- RPCs referenced: verify_ration_card , get_user_ration_quota

```
import { supabase } from "@/integrations/supabase/client";
const { data, error } = await supabase.from('profiles').select('*');
```

Security

- · Replace anon key and URL
- Set RLS policies for profiles , orders , ration_items

Firebase (optional)

- Scaffold: @/integrations/firebase/client → getFirebase() returns { app, auth, db, storage }
- Env vars: VITE_FIREBASE_*

Migration tip

 Replace Supabase usage in useAuth , DocumentUpload , and DB calls with Firebase equivalents if migrating.