

Vetnefits Settings Module Specification

Overview

Make the Settings page fully functional with realtime updates: Clinic Profile, Billing/Account, Staff Management, Appearance Settings, and Module Toggles (with Inventory).

1) Database & Storage

- Extend **clinics** table: logo_url, phone, whatsapp_phone_number, whatsapp_phone_number_id, theme, default_view, updated_at.
- Create **subscriptions** and **payments** tables for billing.
- Create **staff** table for staff management.
- Create **clinic_modules** table for module toggles (vaccine, compliance, lab_reports, otc_billing, inventory).

Enable Supabase Realtime on these tables.

Add a Storage bucket `clinic-assets` for logo uploads.

2) Utilities

- `maskPhone(number)` → mask sensitive digits.
- `onlyDigits()` → normalize phone.
- `initialsFromName(name)` → initials for avatar.

3) API Routes

- **Clinic**: `PUT /api/settings/clinic`, `POST /api/settings/clinic/logo`
- **Appearance**: `PUT /api/settings/appearance`
- **Billing**: `GET /api/settings/billing`, `PUT /api/settings/billing/renew`
- **Staff**: CRUD at `/api/settings/staff`
- **Modules**: `GET /api/settings/modules`, `PUT /api/settings/modules`

Use Supabase service role on server, never in client.

4) Frontend Tabs

Clinic Tab

- Fields: Clinic Name, Phone (for WhatsApp), Logo (avatar → initials or uploaded image).
- Save Changes button.
- Realtime subscription to clinics table.

Billing Tab

- Subscription card: Status, Plan, Valid Till.
- Payment history list.
- Buttons: Renew Subscription, Download Invoice.
- Realtime subscription to subscriptions + payments.

Access (Staff) Tab

- Staff list: Name, Email, Role, WhatsApp, Active toggle.
- Add staff form.
- Realtime subscription to staff table.

Appearance Tab

- Theme toggle (Light/Dark).
- Default view radio (Dashboard, Appointments, Admit).
- Save button.

Modules Tab

- Toggles for Vaccine, Compliance, Lab Reports, OTC Billing, and **Inventory**.
- Realtime updates to module toggles.

5) Hooks

- ``useClinicSettings()``
- ``useBillingSettings()``
- ``useStaff()``
- ``useModuleToggles()``

Each hook updates the TanStack Query cache in place on realtime events.

6) WhatsApp Integration Field

- Clinic phone number saved to `clinics.whatsapp_phone_number`.
- Show badge: Connected if whatsapp_phone_number_id exists, else Not connected.

7) UI Details

- Avatar: logo if exists, else initials.
- Mask phone in lists.
- Forms use React Hook Form + Zod validation.
- Show toasts on success/error.
- Optimistic updates where safe.

8) Acceptance Tests

1. Clinic profile edits sync across windows in realtime.
2. Billing renew adds payment row and updates subscription.
3. Staff CRUD operations reflect instantly across sessions.
4. Appearance settings persist and theme changes immediately.
5. Module toggles (incl. Inventory) work and sync live.

9) Constraints

- Do not expose service role in client.
- Do not refetch whole tables; patch cache with realtime.
- Do not block UI — use optimistic updates.
