

# McNuels IncorgniHealth

## Product Requirements Document (PRD) & App Flow Strategy

**Version:** 4.0 (Final Comprehensive)

**Date:** February 17, 2026

**Target Market:** Nigeria (Lagos Launch)

**Core Philosophy:** "Radical Privacy" — Medical intervention with zero social exposure.

## PART 1: PRODUCT REQUIREMENTS DOCUMENT (PRD)

### 1. Executive Summary

**McNuels IncorgniHealth** is a privacy-first digital health ecosystem designed to bridge the gap between medical need and cultural stigma. It connects patients to doctors, pharmacies, and laboratories using a "**Double-Blind**" architecture. Patients are identified only by unique User IDs (UUIDs) until they explicitly grant "Data Reveal" permission. The platform integrates commercial telemedicine with critical public health interventions for Sexual Assault (SARC) and HIV/Viral Control (SACA).

### 2. User Roles & Permissions

Role	Access Level & Function
Patient ("The Ghost")	<b>Anonymous.</b> Browses via UUID. Controls "Data Reveal" toggle.
Doctor (Provider)	<b>Verified.</b> MDCN licensed. Views UUIDs by default. Requests access to PII.
Pharmacist (Vendor)	<b>Blind.</b> Sees Order ID + Drug List. No patient name/diagnosis visibility.
Lab Scientist (Vendor)	<b>Blind.</b> Sees Order ID + Test Type. Uploads results to secure portal.

<b>Logistics Rider</b>	<b>Blind.</b> Sees Pickup Geo + Drop-off Geo. No package content visibility.
<b>SARC Officer</b>	<b>Emergency.</b> Direct access for "Red Line" assault cases.
<b>Main Admin (Guardian)</b>	<b>Privileged.</b> Can add dependents (Under 18). Must provide legal consent.
<b>Admin</b>	<b>Oversight.</b> Manages disputes, verifications, and platform revenue.

### 3. Core Functional Requirements

#### 3.1. The "Privacy Gate" (Authentication)

- **Auto-Anonymization:** System generates a unique User ID (e.g., #GH-9921-LAG) immediately upon verified sign-up.
- **Data Hashing:** Real name and phone number are encrypted and hidden from the frontend by default.
- **The "Handshake":**
  - *Default:* Doctor sees ID #GH-9921, Age, Sex, Symptoms.
  - *Action:* Doctor clicks "Request Bio-Data."
  - *Consent:* Patient receives a pop-up to **[ALLOW]** or **[DENY]**.

#### 3.2. Telemedicine Module (Enhanced)

- **Consultation Modes:** Text Chat (E2EE), Audio Call, Video Call (Default: Blurred/Off).
- **Digital Clerking Sheet (New):**
  - A split-screen **SOAP Note** interface for doctors (Subjective, Objective, Assessment, Plan).
  - Notes are saved against the UUID, not the name.
- **Hovering Lab Button (FAB) (New):**
  - A semi-transparent "Beaker Icon" floating on the video feed.
  - Allows doctors to **Order Tests** or **View Past Results** without obstructing the video.

#### 3.3. Family Management (Guardian Accounts)

- **Dependent Profiles:** Adults can create sub-accounts for children (Under 18).
- **Consent Gate:** Creating a child profile requires checking:
  1. *"I certify I am the Legal Guardian."*
  2. *"I Consent to Medical Care."*
- **Digital Signature:** The user **MUST** re-enter their Main Password to finalize creation.
- **Switching Security:** Switching from Parent Profile to Child Profile requires Password/PIN

entry.

### 3.4. The Logistics Engine (Pharmacy & Labs)

- **Pharmacy (Blind Fulfillment):**
  - Orders routed to nearest partner pharmacy.
  - Pharmacist packs medication in **unbranded, sealed packaging**.
- **Laboratory (Blind Diagnostics):**
  - **QR Code Mode:** Patient walks into partner lab -> Scans QR Code -> Lab collects sample without asking name.
  - **Home Pickup Mode:** Phlebotomist dispatched to GPS location for anonymous sample collection.
  - **Dual Timestamping (Critical):** All uploaded results must show:
    1. **Sample Collected Date:** (e.g., 12-Feb @ 9:00 AM)
    2. **Report Finalized Date:** (e.g., 12-Feb @ 2:00 PM)

### 3.5. Public Health Modules (Specialized Flows)

- **The "Red Line" (SARC - Sexual Assault):**
  - **Panic Button:** Immediate connection to nearest SARC (e.g., Mirabel Centre).
  - **Zero-Trace:** Local device logs (chat/location) are wiped after session.
  - **Safe Ride:** Integration with Uber/Bolt API for anonymous transport.
- **The "Green Line" (SACA - HIV/Viral Control):**
  - **Partner Notification:** Anonymous SMS alert system for past partners.
  - **Subscription:** Automated monthly refill of ARVs/PrEP.

### 3.6. Revenue & Payments

- **Commission Model:** Flat **15% fee** deducted from all Doctor Consults, Pharmacy Sales, and Lab Tests.
- **Split Payment API:** Payments processed via Paystack/Flutterwave Split.
  - (*User pays ₦10,000 -> System routes ₦8,500 to Provider / ₦1,500 to McNuels*).
- **Subscription Logic:** Recurring billing for chronic meds (triggered 5 days before expiry).

## 4. Technical Requirements

- **Frontend:** React.js (PWA) / Tailwind CSS.
- **Backend:** Node.js (Express) or Python (Django).
- **Database:** PostgreSQL (with strict table separation for PII vs. Medical Data).
- **Compliance:** NDPR (Data Privacy) & HIPAA standards.

# PART 2: APP FLOW DOCUMENT (USER JOURNEY)

## FLOW A: The "Ghost" Onboarding (Universal Entry)

1. **Splash Screen:** Logo: *McNuels IncogniHealth*. Tagline: "Your Health, Your Secret."
2. **Auth Screen:**
  - User enters Phone Number.
  - System sends OTP -> User verifies.
  - **CRITICAL STEP:** System displays: "Your Anonymous ID is **#GH-9921-LAG**. This is how doctors will see you."
3. **Profile Setup:** User sets a "Mask" (Avatar). Biodata is locked immediately.

## FLOW B: Family Management (Adding a Child)

1. **Trigger:** User goes to **Settings** -> **Family Management**.
2. **Action:** Click **[Add Dependent]**.
3. **Input:** Child Name, DOB, Genotype, Allergies.
4. **Consent Gate:**
  - Check: [x] *I am the Legal Guardian*.
  - Check: [x] *I Consent to Medical Treatment*.
5. **Signature:** Pop-up: "Enter Password to Sign Consent."
6. **Result:** Child Profile #GH-9921-CHILD created.

## FLOW C: The Consultation (With Clerking & FAB)

1. **Dashboard:** User selects "**Consult Doctor**".
2. **Triage:** Selects Category (e.g., "Sexual Health").
3. **Payment:** User pays Consultation Fee via Wallet/Card.
4. **Session Active (Video Call):**
  - **Doctor View:** Video on Left | Clerking Sheet on Right.
  - **Clerking:** Doctor types SOAP notes (Complaints, Diagnosis).
  - **Hover Action:** Doctor hovers over **Floating Lab Button**.
    - **Option A: [Order Test]** -> Quick select "Malaria".
    - **Option B: [View History]** -> Slide-out panel shows past PDFs.
5. **Closing:** Doctor clicks **[Save & Prescribe]**. Prescription generated for UUID.

## FLOW D: Pharmacy Fulfillment (The "Blind" Drop)

1. **Action:** User clicks **[Fulfill Order]** on the prescription.
2. **Routing:** Selects **[Delivery]**.
3. **Payment:** User pays Drug Cost + Delivery Fee.
4. **Vendor Action:**
  - Pharmacy receives: "Order #ORD-55 for 1x Amoxicillin. Pack discreetly."
  - Pharmacy clicks **[Ready for Pickup]**.
5. **Logistics:** Rider picks up package. Hands over using "Code 9921".

## **FLOW E: Laboratory (The "Blind" Test)**

1. **Trigger:** Doctor orders "Full Blood Count" via FAB.
2. **User Action:** User selects **[Walk-In]** or **[Home Pickup]**.
3. **Execution (Walk-In):**
  - User goes to Lab.
  - Opens App -> Shows **QR Code**.
  - Lab scans QR -> System confirms "Authorized Test: FBC."
4. **Result Upload (Lab Side):**
  - Lab uploads PDF.
  - System requires input: **Sample Date AND Report Date**.
5. **Access:** User enters PIN to view result.

## **FLOW F: The "Red Line" (SARC Emergency)**

1. **Trigger:** User taps the **[Safe Haven / SARC]** floating button.
2. **Safety Check:** "Are you in immediate danger?" (Yes = Call 112).
3. **Connection:**
  - *Option A: [Chat with Counselor]* (Anonymous, trace-free).
  - *Option B: [Get Me There]*.
4. **Transport:**
  - App books ride. Destination masked as "Wellness Center."
  - Ride arrives. User enters.
5. **Exit:** Button to **[Quick Close]** app immediately.