



Functional Specifications Document

MVP

VitAfrica
SaaS – Hospital / Clinic Management System

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1. General Overview

Product Name: VitAfrica

Type: SaaS – Hospital / Clinic Management System

Primary Target: Private clinics, medical centers, practices, small and medium-sized hospitals

Vision: Digitize and structure medical management in African contexts by replacing paper-based processes with a reliable, simple, and scalable system. VitAfrica aims for a clear balance: functional power for medical administration, simplicity for doctors and patients.

Problem Statement

- Heavy use of notebooks and paper files
- Loss or duplication of patient records
- Difficulty tracking appointments
- Poor management of prescriptions and pharmacy stock
- Unreliable and non-centralized billing
- Limited patient access to their own information

VitAfrica provides a centralized, secure, and field-adapted digital solution.

MVP Scope

The MVP focuses on essential features required for the daily operation of a clinic, without unnecessary complexity.

Included Features
<ul style="list-style-type: none">• Patient management• Appointment management• Medical prescriptions• Basic pharmacy stock management• Billing and receipts• Laboratory results (upload and viewing)

Excluded from MVP:

- Teleconsultation
- Online payments
- Insurance integration
- Advanced analytics
- Artificial intelligence

User Roles

- **Administrator:** overall clinic management
- **Doctor:** consultations, prescriptions, patient follow-up
- **Medical staff:** reception, appointments, billing
- **Patient:** access to personal information

Web Application (Admin & Doctors)

Administrator Dashboard

Objective: global overview of clinic activity.

- Number of patients
- Today's appointments
- Daily revenue
- Pharmacy stock alerts

Patient Management

- Creation of patient records
- Personal information (name, age, gender, contact)
- Consultation history
- Prescription history
- Invoice history

Constraints:

- Each patient has a unique identifier

- Archiving without permanent deletion

Appointment Management

- Manual appointment creation
- Assignment to a doctor
- Calendar view (day / week)
- Status: scheduled, completed, canceled

Medical Consultation (Doctor)

- Access to patient file
- Add medical notes
- Text-based diagnosis
- Prescription linked to consultation

Medical Prescriptions

- Prescription creation
- Medication list
- Dosage instructions
- Print or PDF export

Pharmacy link: Automatic stock deduction if enabled.

Pharmacy Management (Basic)

- Add medications
- Available quantity
- Alert threshold
- Outflow history

Billing

- Invoice generation
- Link to consultation / patient
- Service types
- Total amount
- Receipt generation

Laboratory Results

- File upload (PDF, image)
- Link to patient
- Doctor access

Mobile Application (Patient)

Authentication

- Login via phone number or email
- Secure access

Patient Profile

- Personal information
- Record number

Appointments

- View upcoming appointments
- Appointment history

MVP Note: No self-booking (read-only).

Prescriptions

- View prescriptions
- Medication details

Medical Results

- Access laboratory results
- Download documents

Invoices

- View invoices
- Payment history

Security and Constraints

- Role-based authentication
- Profile-based access control
- Non-public medical data
- Regular backups

Functional Architecture (MVP)

- Web Frontend: Administration and doctors
- Mobile App: Patients
- Centralized Backend API
- Secure database

Post-MVP Evolution

- Patient self-booking
- Mobile money payment
- Teleconsultation
- Analytical dashboards
- Insurance interoperability

Conclusion

VitAfrica MVP lays the foundation for a robust, realistic medical management system adapted to African realities. The goal is not to do everything, but to do what matters well: reliable, useful, and built on a solid base for future evolution.