



SWASAM AI

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# Re-Architecting Global Healthcare Delivery

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# About Swasam

SWASAM is an advanced Healthcare Operating System designed to unify hospitals, clinics, laboratories, pharmacies, patients, AI intelligence, and IoT healthcare devices into one connected ecosystem. Built with enterprise-grade software architecture and clinical AI, Swasam transforms fragmented healthcare into a seamless, intelligent, and proactive care network.

# SWASAM AI

# SWASAM AI

Building the world's first unified, closed-loop Healthcare Operating System driven by clinical intelligence, seamless enterprise software, and predictive IoT hardware.



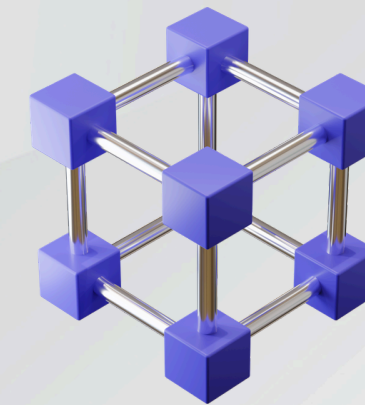
## The Vision

Bridging the structural gap between clinical infrastructure, retail operations, daily patient lifestyle, and real-time medical monitoring.



## The Philosophy

Healthcare should be continuous, proactive, and zero-silo.



## The Platform

An interconnected network of autonomous ERPs unified by a proprietary clinical Large Language Model (LLM) and secure edge hardware.

# Swasam EMR: The Heavy Hospital Backbone

A comprehensive, enterprise-grade 40+ module ERP system designed to optimize clinical operations, resource allocation, and financials for large hospital networks.

01

## Clinical Operations

End-to-end clinical modules including Doctor OPD, Inpatient (IPD) ward management, Operation Theatre (OT) scheduling, Radiology reporting, and automated Physiotherapy track workflows.

02

## Enterprise Logistics

Advanced multi-branch asset management, complete Warehouse Tracking featuring precise zone/bin optimization, and dynamic Ambulance Fleet routing.

03

## Financial & Admin Backbone

Comprehensive Hospital Accounting (Ledgers, GST, Day books), automatic Insurance/TPA Claims processing, Cashier Management, and integrated biometric Human Resource Management (HRM)

# Scaling Operational Velocity in Enterprise Health

Transforming institutional bottlenecks into clear, data-driven workflows that maximize bed utilization, minimize insurance leakages, and improve care quality.

01

## Secure Inter-Department Routing

Direct, real-time message broadcasting and electronic health records routing across all specialist units.



02

## Revenue Assurance

Automated auditing of multi-line item bills, operational expenses, and corporate accounts receivable to minimize revenue leakage.



03

## Unified Health Directory

Centralized management of medical staff directories, specialized clinical departments, and consulting network physicians.



# Swasam Clinic: High-Velocity Single-Practice Software

A lean, lightweight, 10-module Micro-EHR designed explicitly for 1-3 doctor practices to prioritize patient intake speed and reduce documentation load.

## The 10 Core Modules



1

Integrated Dashboard, Patient Management, Appointments, Consultation, Billing, Inventory, Staff, Reports, Settings, and Personal Settings.

## Bilingual Architecture



2

Full native localization for English and Tamil with over 700+ language keys built directly into the UI layer.

## The UI Core (FAB System)



3

A persistent Floating Action Button configuration optimized to instantly launch three major modal tasks: Add Patient, Book Appointment, and Create Quick Bill.

# Optimizing the Doctor's Cognitive Focus

Minimizing screen fatigue for primary care physicians through a single-view clinical console that brings all vitals, history, and records into one interface.

01



**Single-View  
Clinical Console**

voids multi-tab confusion by placing patient vitals tracking, clinical complaints, and medical history side-by-side.

Allows for lightning-fast, autocomplete-enabled creation of printed or digital prescriptions and diagnostic lab orders.

**E-Prescription &  
Order Management**



02

03



**Administrative  
Generation**

One-click automated formatting of standard clinical documentation, sick leaves, and medical clearance certificates.

# Swasam Pharmacy: High-Velocity Retail & Supply Chain

A fast, precise pharmacy management platform that handles heavy inventory control, stops product expiration leakage, and drives Point-of-Sale (POS) volume.

## Keyboard-Only POS Billing

An ultra-fast checkout screen optimized for rapid barcode scanning, split billing, and quick alternative-brand item substitutions.



## Smart Inventory Safeguards

Automated tracking of batches and expiration dates that shifts near-expiry items to the front of the shelf, along with automated re-order points.



## E-Commerce & Delivery Integrations

Direct management of incoming web or mobile app orders, including organized packing lists and delivery dispatch workflows.



# Total Operational Control & Regulatory Shielding

Eliminating retail inventory shrinkage and ensuring compliance through built-in verification workflows.



## Compliance Shield

Built-in validation checks for restricted substances (Schedule H/X medications) with integrated record keeping.



## Physical Stock Reconciliation

A digital stock auditing tool designed to flag and fix discrepancies between system logs and physical shelf inventory.



## Procurement Operations

Streamlined processing for automated purchase orders, Goods Receipt Notes (GRN), and Return to Vendor (RTV) protocols for expired items.

# Swasam Laboratory: Automated Diagnostics Lifecycles

A modern Laboratory Information Management System (LIMS) that automates the entire process from initial test booking to final pathologist authorization.



## Unified Sample Processing

Complete sample journey tracking using secure barcode and QR code automation to ensure sample integrity.



## Master Catalog Engine

Central management for individual diagnostic tests and complex, tiered health packages with configurable turnaround times



## Pathologist Verification Desk

Multi-level digital authorization dashboard with automated alerts for critical or abnormal lab findings.

# Decentralizing Diagnostic Access

Extending the lab's operational reach beyond its physical walls through specialized mobile collection tools and multi-branch monitoring.

## Home Collection Engine



Logistics dispatch console featuring phlebotomist scheduling, assignment tracking, and optimized mobile routing

## Multi-Branch Central Control



A consolidated administrative panel designed to track sample volume, turnaround time compliance, and revenue across multiple drop centers.

## NABL Compliance Suite



Integrated quality assurance tracking, including equipment calibration records, standard operating procedure (SOP) logs, and internal control data.

# Swasam Mobile: The Patient's Universal Health Feed

The single customer touchpoint that unifies clinical records, ongoing treatments, and personal lifestyle tracking into an intuitive consumer application.

01

## The Secure API Bridge

Real-time data streams powered by secure JWT/OAuth2 protocols connecting the app directly to hospital EMRs, clinics, labs, and pharmacies



02

## Instant Health Feed

Diagnostic results, doctor care plans, and pharmacy orders are pushed directly to the patient's mobile app the moment they are signed.



03

## Smart Document Vault

Secure personal health storage featuring an AI-driven OCR text scanner that extracts structure from uploaded paper medical records.



# Closing the Loop on Telehealth and Care Continuity

Turning medical care into an interactive, convenient mobile experience that simplifies appointment scheduling and medication management.

01

## Integrated Telemedicine

Direct, real-time message broadcasting and electronic health records routing across all specialist units.



02

## Smart Pharmacy Refills

Automated auditing of multi-line item bills, operational expenses, and corporate accounts receivable to minimize revenue leakage.



03

## Queue Status Monitoring

Centralized management of medical staff directories, specialized clinical departments, and consulting network physicians.



# Swasam AI: The Multi-Modal Clinical Intelligence Layer

A highly secure, medical-grade artificial intelligence engine built to process unstructured healthcare data and deliver structured clinical insights.



## The Swasam Think Interface

A specialized console supporting multi-modal input streams via natural voice dictation, text queries, and image uploads.



## Clinical Reasoning Transparency

Displays an interactive "Chain of Thought" rendering window so clinicians can review the medical reasoning path.



## Structured AI Response Cards

Translates dense clinical outputs into bite-sized, interactive visual interfaces for summaries, lab analysis, and triage metrics.

# Ambient Intelligence in the Consultation Room

Eliminating manual clinical charting by using ambient voice processing to listen to natural conversations and auto-populate structured EMR charts.

01



## The Voice AI Scribe

Ambient room audio capture that listens to natural doctor-patient dialogue and extracts clinical data into formal SOAP notes.

High-performance cross-lingual conversion capable of processing conversations in Tamil and drafting clinical summaries in English.

## Real-time Translation Matrix



02

03



## Automated Coding Assistance

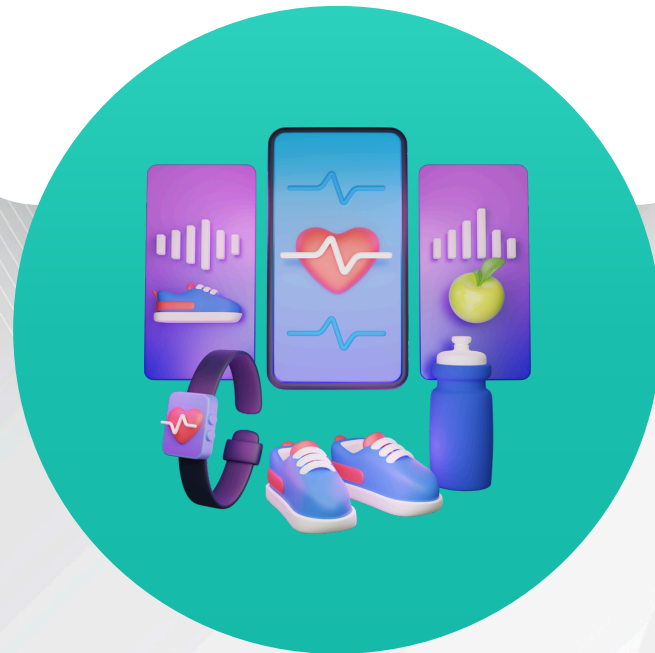
Auto-mapping extracted diagnoses and procedures to global standardized codes like ICD-11 and SNOMED-CT

# Proactive Health: Medically-Informed Wellness

Connecting active lifestyle data directly with clinical insights to turn fitness, nutrition, and hormonal tracking into tools for chronic disease prevention.

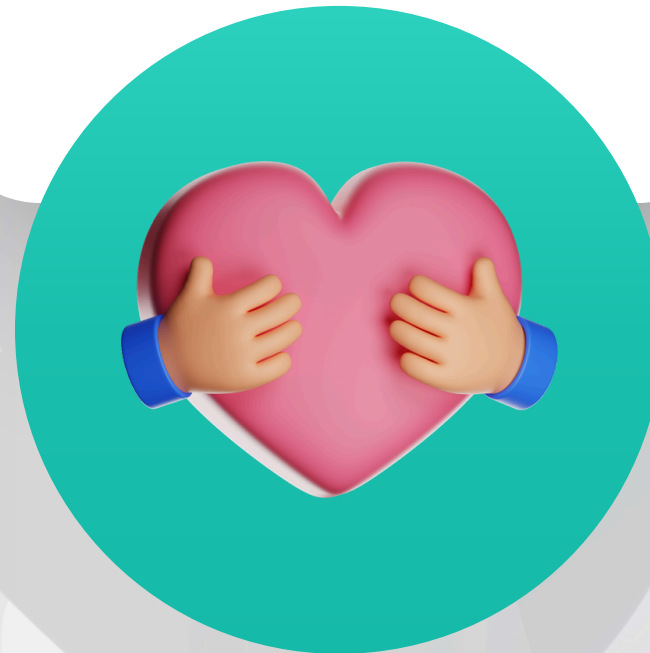
## Swasam Fit

An advanced workout tracker that checks your medical record to adapt routines based on injuries, heart metrics, or recovery status.



## Swasam Eve

A specialized women's health module that connects menstrual history and hormonal data (PCOS/Thyroid markers) with lab results.



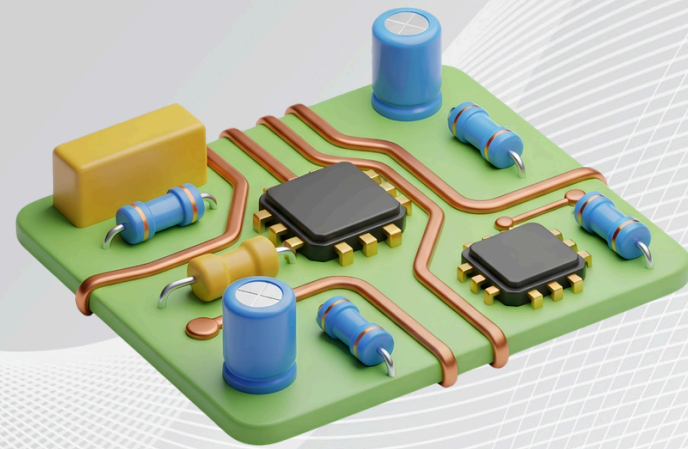
## Swasam Fuel

An AI-vision nutrition engine that lets users photograph their meals for automatic macro tracking, while adjusting dietary advice based on laboratory blood results.



# Bridging Digital Software with Physical Spaces

Moving beyond pure software to build a custom suite of connected medical IoT devices that bring real-time physical space data into the Swasam network.



## The Hardware R&D Mission

Built-in validation checks for restricted substances (Schedule H/X medications) with integrated record keeping.



## Edge Telemetry Processing

A digital stock auditing tool designed to flag and fix discrepancies between system logs and physical shelf inventory.



## Closed-Loop Verification

Streamlined processing for automated purchase orders, Goods Receipt Notes (GRN), and Return to Vendor (RTV) protocols for expired items.

# The Swasam Patient Tag: Redefining Inpatient Care & Safety

A proprietary wearable IoT location and vital-tracking device designed to eliminate identification mix-ups and reduce clinical errors in busy hospital wards.

## Internal Indoor Health GPS



1

Real-time spatial tracking of patients across all wards to completely prevent accidental misplacement or unmonitored wandering.

## Continuous Vital Streaming Engine



2

Streams continuous heart rate, oxygen levels, and body temperature telemetry directly to the attending physician's EMR workspace.

## Eliminating Patient Identity Mix-Ups



3

Proximity-based alerts that immediately warn nursing staff if a medication or procedure is about to be given to the wrong patient.

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# Swasam AI: The Future of Connected Global Health

A highly integrated ecosystem combining medical software, lifestyle wellness, predictive artificial intelligence, and proprietary IoT edge hardware.

01

## Unrivaled Intellectual Moat

A comprehensive product matrix covering all major areas of modern healthcare delivery.



02

## Architected to Scale

Modular software design built to easily deploy across independent practices or scale up into full hospital enterprise networks.



03

## Data Synergy Leadership

The only platform where hardware signals, retail data, and lifestyle metrics actively collaborate to improve health outcomes.



# Thank You



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