

NABDH: MVP Scope Document

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1. MVP Summary (What we are building in the next 6 months)

NABDH MVP = the GCC's first Arabic native Clinical AI Layer for doctors, built on:

- Doctor Portal V1
- Arabic Clinical AI Engine (audio → transcript → SOAP → summary)
- Safety & Clinical Pathways Engine
- Insurance Assistant V1 (pre-auth + claim narratives)
- Compliance Layer (logging, consent, UAE data residency)
- Pilot #1 (Dec–Jan) + Pilot #2 (Feb–Mar)
- Acquisition readiness by April–May 2026

This MVP is NOT:

- A patient app
- A full EMR
- A diagnostic engine

This MVP is laser focused on doctor efficiency, Arabic AI, and insurance automation, which gives us maximum traction with minimum build cost.

2. MVP Goals (What must be delivered 100%)

By March 2026, NABDH MVP must deliver:

2.1 Core AI Functionality

- Arabic speech to text (ASR)
- Transcript → structured SOAP note
- Structured note → doctor summary
- Red flag safety checks
- Clinical pathways for top 5–6 complaints

2.2 Doctor Portal V1

- Login
- Dashboard
- Audio recorder
- Visit notes (AI generated)
- Edit notes
- Safety alerts
- Simple past history view

2.3 Insurance Assistant V1

- Pre-auth justification drafts
- Claim narrative drafts
- Missing-item checklist
- Rejection risk (rule-based)

2.4 Compliance & Safety

- Consent screen
- Privacy disclosure
- Audit logs
- UAE data residency
- Safety stop conditions

2.5 Pilots

- Pilot #1: Base44 CAIC (Dec–Jan)
- Pilot #2: NABDH V1 (Feb–Mar)

2.6 Acquisition Preparation (April–May)

- Final demo
- Pilot report (1 + 2)

- Safety + validation report
 - Buyer pipeline
 - LOIs
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3. Lean Architecture (Azure UAE + Local Model)

3.1 Infrastructure

Cloud: Azure UAE Region

Why:

- Complies with UAE healthcare data residency
- Used by Malaffi/M42
- Low latency
- Best for future integrations

Compute:

- 1 small compute instance for backend
- 1 GPU-backed instance for local inference during development only
- Limit GPU usage to:
 - model testing
 - summary generation
 - accuracy evaluation

Storage:

- Azure Blob
 - PostgreSQL
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3.2 AI Architecture

LLM Model Strategy:

- Use a local Arabic clinical model (not external OpenAI/GPT)
- Smaller distilled model for:
 - cost control
 - privacy
 - UAE residency
- RAG (Retrieval-Augmented Generation) optional for phase 2

ASR Engine:

- Whisper Arabic (localized)
or
- Azure Arabic Speech Service

Pipeline:

1. Audio → ASR
 2. ASR → transcript
 3. Transcript → structured SOAP
 4. SOAP → doctor summary
 5. Safety layer checks
 6. Save log
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3.3 Backend Architecture

- FastAPI or Django
 - Microservice architecture (minimal)
 - Logging service
 - Insurance service
 - Notes service
 - Authentication
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3.4 Frontend Architecture

- React + Next.js
 - Doctor portal, responsive
 - Simple + fast (not heavy UI)
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3.5 DevOps

- GitHub (repo + branches)
 - GitHub Actions (CI/CD)
 - Jira for sprint management
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4. MVP Features (Fully Defined Scope —No Scope Creep)

4.1 Doctor Portal

Feature	Required for MVP	Notes
Login	✓	Simple email/password
Dashboard	✓	Shows today’s visits
Audio Recording	✓	Core feature
AI SOAP Note	✓	From transcript
AI Summary	✓	Doctor-facing
Edit Note	✓	Must-have
Past History	✓ (basic)	V1 only

Red Flag Alerts	✓	From safety rules
Specialty Suggestion	optional	Only if fast
Beautiful UI	✗	Not needed

4.2 AI Layer

Feature	Required?	Notes
Arabic ASR	✓	Whisper or Azure
SOAP Generation	✓	Structured format
Summary Generation	✓	Doctor readable
Safety Engine	✓	Hard stop rules
Clinical Pathways	✓	Top 6 complaints
Model Fine-tuning	optional	Only if needed
RAG	optional	Later

4.3 Insurance Assistant

Feature	Required?	Notes
Pre-auth Draft	✓	Key selling point
Claim Narrative	✓	From SOAP
Missing Item Checklist	✓	Rule-based
Rejection Risk	optional	V1.1

4.4 Compliance Layer

Feature	Required?	Notes
Consent	✓	Simple modal
Privacy Policy	✓	Doctor portal
Audit Logs	✓	API-level logs
UAE Residency	✓	Azure UAE
Incident Response	✓	Minimal protocol

DOH Certification

✖

Not required

5. Out of Scope (to protect the budget & timeline)

These features must NOT be built before acquisition:

- ❌ Patient App
 - ❌ Full EMR system
 - ❌ Advanced diagnostic features
 - ❌ Hospital integration (Malaffi)
 - ❌ Telemedicine
 - ❌ Payments
 - ❌ Chatbot for patients
 - ❌ AI-driven prescriptions
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6. Roles & Responsibilities (MVP Phase Only)

Founder

- Vision
- Roadmap
- Pilots
- Team alignment
- Compliance review
- Quality control

- Investor + acquisition preparation

CTO

- Architecture
- Backend
- DevOps
- Security
- Model integration
- Delivery management

AI/ML Engineer

- ASR setup
- LLM integration
- Summary + SOAP logic
- Pathway logic integration
- Evaluation metrics

Clinical Lead (Dr. Ahmed)

- Pathways
- Safety rules
- Clinical validation
- Evaluation of outputs

Regulatory Advisor (Dr. Salam)

- Consent
- Privacy
- Data flow
- Logs
- Incident response

UI/UX

- Doctor portal screens
 - Consistent design system
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7. Success Metrics (MVP Only)

Clinical Metrics

- $\geq 70\%$ doctor adoption
- $\geq 40\%$ time saved
- $\geq 80\%$ accuracy on SOAP

Safety Metrics

- 0 major safety issues
- 100% consent usage

Business Metrics

- 2 pilot clinics
 - 5+ buyer discussions
 - Web Summit interest pipeline
 - Clear acquisition story by May
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8. Budget (Max 35,000 AED)

Azure UAE: 6,000–8,000 AED

Dev tools: 1,800–2,400 AED

Legal/IP: 6,000–8,000 AED

Pilot logistics: 3,000–4,000 AED

Design/marketing: 2,000–3,000 AED

Contingency: 5,000–6,000 AED

Total: 27,000–33,000 AED

(Within maximum limit)

9. Timeline (Directly tied to the Roadmap)

10. Definition of DONE (MVP Ready)

The MVP is complete only when ALL of the following are true:

- ✓ Doctors can record audio
- ✓ Transcript appears
- ✓ SOAP note generates
- ✓ Summary generates
- ✓ Red-flag warnings trigger
- ✓ Doctor can edit notes
- ✓ Insurance draft generates
- ✓ All data stored in Azure UAE
- ✓ Safety logs work
- ✓ Consent screen works
- ✓ Pilot #2 runs smoothly
- ✓ Pilot report published