

# Synka – 12 Week MVP Builder Outline

## High-Level Build Manual

### Weeks 1–2: Foundations

- Country Pack v1: languages, formulary, consent text.
- Offline Data Model + Sync Engine: queue, retry, merge, conflict rules.
- Developer Focus: offline-first testing, resilience under 2G, mobile-first Android Go baseline.

### Weeks 3–6: Core Build

- Shared Spine: scheduling, IVR/SMS/USSD nudges, CHW route lists.
- Access Hub Minimal: 2 infusion drugs, site-of-care rules, QR appointment card.
- Switch Kit Minimal: eligibility for 1 biologic, printable protocol, day-3/day-14 follow-ups.
- Developer Focus: async telemed store-and-forward, localization hooks, unit tests for sync.

### Weeks 7–9: Field Polish

- UI/UX: low-literacy mode (icons + audio), kiosk mode, WhatsApp deep links.
- Fallbacks: paper QR forms for offline ingestion.
- Developer Focus: cultural tailoring, tamper-evident logs, beta with CHW tablets.

### Weeks 10–12: Pilot + Measurement

- Deployment: 1 hospital + 2 satellite clinics (or 1 IDN).
- KPIs: % infusions moved, successful biosimilar switches, no-show reduction, adherence persistence, % offline interactions synced later.
- Developer Focus: compliance guardrails (formulary validation), connectivity ladder validation.

## JIRA-Style Breakdown

### Epic 1: Foundations (Weeks 1–2)

Story	Task	Acceptance Criteria
Story 1.1	Create Country Pack v1	Supports ≥2 languages, formulary table, consent text loaded.
Story 1.2	Implement Offline Data Model	Patient, visit, adherence schemas stored locally with encryption.
Story 1.3	Build Sync Engine	Handles queue, retry, merge, conflict resolution; tested under 2G.

### Epic 2: Core Build (Weeks 3–6)

Story	Task	Acceptance Criteria
Story 2.1	Build Scheduling Core	Supports kiosk & CHW tablet bookings without personal device.
Story 2.2	Implement IVR/SMS/USSD Nudge Framework	Sends reminders via $\geq 2$ channels; works offline-first.
Story 2.3	Generate CHW Route Lists	Auto-batches visits by village/route.
Story 2.4	Access Hub Minimal (2 infusion drugs)	Apply site-of-care rules, generate appointment card + QR.
Story 2.5	Switch Kit Minimal (1 biologic)	Eligibility check, printable protocol, day-3/day-14 workflows.

### Epic 3: Field Polish (Weeks 7–9)

Story	Task	Acceptance Criteria
Story 3.1	Low-Literacy UI	Icon-first navigation, audio prompts.
Story 3.2	WhatsApp Deep Links + Kiosk Mode	Patient can book/reschedule via WhatsApp; shared-phone kiosk flow.
Story 3.3	Paper QR Fallback	Offline forms printable; scan parser ingests back into system.
Story 3.4	Tamper-Evident Logs	On-device logs capture changes; unalterable.

### Epic 4: Pilot + Measurement (Weeks 10–12)

Story	Task	Acceptance Criteria
Story 4.1	Deploy at Pilot Sites	Installed & tested at 1 hospital + 2 satellite clinics.
Story 4.2	Track Core KPIs	Dashboards show infusion shifts, switch rates, adherence, no-shows.
Story 4.3	Compliance Guardrails	Only regulator-approved biosimilars allowed; block if not on formulary.
Story 4.4	Connectivity Ladder Testing	Flows work across USSD → SMS/IVR → WhatsApp → Data.