

Odoo 16 HIS + AI Diagnosis + WhatsApp — 70-Step Roadmap Full Checklist

Phase 1 — Infrastructure & Initial Odoo Setup

■ *Provision DigitalOcean droplet: Ubuntu 22.04 LTS, choose swap file and enable UFW.*

- ■ Step 1: Prepare necessary inputs (credentials, data, config files).
- ■ Step 2: Perform the main action (install, configure, code, or integrate).
- ■ Step 3: Test with sample or real data to confirm expected outcome.
- ■ Step 4: Document the work and confirm with stakeholders.

■ *Create non-root user, configure SSH keys, disable password root login, and harden SSH.*

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■ *Install Docker & Docker Compose (lightweight stacks to fit 2GB RAM); create swap 2GB if not present.*

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■ *Prepare Postgres container/config (persistent volume) and basic backup cron.*

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■ *Deploy Odoo 16 container (community) with minimal addons; connect to Postgres.*

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■ *Create staging DB and a test admin user; set timezone to Africa/Mogadishu.*

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■ *Configure basic email (SMTP) for outbound notifications and admin alerts.*

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Phase 2 — Core HIS Modules & Data Model

■ **Install or create modules: EMR/Patient, Appointments, Lab basic, Pharmacy minimal, HR roster.**

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■ **Extend res.partner for phone_mobile_e164, whatsapp_opt_in, preferred_language, quiet_hours.**

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- ■ Step 3: Test with sample or real data to confirm expected outcome.
- ■ Step 4: Document the work and confirm with stakeholders.

■ **Create basic encounter model: encounter_id, chief_complaint, vitals, problems list.**

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- ■ Step 4: Document the work and confirm with stakeholders.

■ **Add lab result model with LOINC code field, value, unit, ref_range and status (raw/verified).**

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- ■ Step 3: Test with sample or real data to confirm expected outcome.
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■ **Add prescription model hook to capture meds, dose, frequency, allergies and renal info.**

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- ■ Step 3: Test with sample or real data to confirm expected outcome.
- ■ Step 4: Document the work and confirm with stakeholders.

■ **Design and load basic code lists: ICD-10 (subset), LOINC (common tests), ATC/Rx list CSV.**

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- ■ Step 4: Document the work and confirm with stakeholders.

■ **Set role-based access control: Clinician, Lab tech, Pharmacist, Admin, Nurse.**

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- ■ Step 4: Document the work and confirm with stakeholders.