

Module Development in Odoo 17:

Clinic Management (1)

Module Structure:

1. Models (8 hours):

- **Patient (res.partner):**
 - Inherit from `res.partner` to leverage existing partner functionality (name, address, contact information).
 - Add custom fields (optional):
 - Patient ID (unique identifier)
 - Date of birth
 - Insurance information
 - Emergency contact details
- **Appointment (clinic.appointment):**
 - Patient (foreign key to `res.partner`)
 - Doctor (foreign key to `res.users`)
 - Appointment date and time
 - Appointment type (consultation, checkup, etc.)
 - Status (pending, confirmed, canceled)
 - Notes (optional)
- **Doctor (res.users):**
 - Inherit from `res.users` to leverage existing user management.
 - Add custom fields (optional):
 - Specialty
 - Availability (derived based on appointments)
- **Treatment (clinic.treatment):**
 - Patient (foreign key to `res.partner`)
 - Doctor (foreign key to `res.users`)
 - Appointment (foreign key to `clinic.appointment`) (optional: if treatment directly linked to appointment)
 - Treatment details (diagnosis, prescribed medications, procedures)
 - Notes
- **Medical Record (clinic.medical_record):**
 - Patient (foreign key to `res.partner`)
 - Treatment references (many2many to `clinic.treatment`)
 - Uploadable files (e.g., scans, reports)
 - Notes
- **Prescription (clinic.prescription):**
 - Patient (foreign key to `res.partner`)
 - Doctor (foreign key to `res.users`)
 - Treatment (foreign key to `clinic.treatment`) (optional)
 - Medication details (name, dosage, duration)

- Notes
- **Invoice (account.invoice):**
 - Inherit from `account.invoice` for seamless integration with Odoo's accounting system.
 - Patient (foreign key to `res.partner`)
 - Appointment (foreign key to `clinic.appointment`) (optional: if invoice linked to specific appointment)
 - Treatment references (many2many to `clinic.treatment`) (optional)
 - Invoice lines with service or product details
- **Log (clinic.log):**
 - Patient (foreign key to `res.partner`)
 - Appointment (foreign key to `clinic.appointment`) (optional)
 - Entry date and time
 - Notes (e.g., vitals, observations during appointment)

Views (8 hours):

- **Patient Dashboard:**
 - List view: Display basic patient information and upcoming appointments.
 - From view: Edit patient details, medical history (linked to medical records), and prescriptions.
- **Appointment Management:**
 - Calendar view: Visually manage appointments, doctor availability, and scheduling conflicts.
 - Kanban view: Track appointment statuses (pending, confirmed, canceled).
 - From view: Create, edit, and cancel appointments, including selecting doctor and appointment type.
- **Doctor Dashboard:**
 - List view: Display upcoming appointments with patient details.
 - Form view : View patient medical history and treatment details linked to appointments.
- **Treatment Management:**
 - List view: Show patient, doctor, and treatment details.
 - From view: Create, edit, and view treatment information, linking to prescriptions and medical records.
- **Medical Record Management:**
 - List view: Display patients and access their medical records.
 - Form view: View and add notes, upload documents (scans, reports), and link to treatments.
- **Prescription Management:**
 - List view: Show patient, doctor, and prescription details.
 - From view: Create and edit prescriptions, linking to treatments and including medication details.

- **Invoice Management:**
 - List view: Display invoices for patients and appointments or treatments.
 - Form view: View and edit invoice details, including adding or removing invoice lines.
- **Log Management (optional):**
 - List view: Display logs