

1. Users Collection

Stores patient and admin profiles. { _id: ObjectId, name: String, email: String, phone: String, passwordHash: String, role: "user" | "admin", createdAt: Date, updatedAt: Date }

2. Tests Collection

Stores available diagnostic tests. { _id: ObjectId, name: String, description: String, sampleType: String, price: Number, fastingRequired: Boolean, turnaroundTime: String, tags: [String], createdAt: Date }

3. Prescriptions Collection

Stores uploaded prescription files and NLP output. { _id: ObjectId, userId: ObjectId, file: Buffer, fileName: String, mimeType: String, extractedEntities: [String], suggestedTests: [ObjectId], uploadedAt: Date, reviewed: Boolean, approvedBy: ObjectId }

4. Orders Collection

Stores test bookings. { _id: ObjectId, userId: ObjectId, testIds: [ObjectId], prescriptionId: ObjectId, status: "pending" | "approved" | "completed", scheduledDate: Date, paymentStatus: "unpaid" | "paid", invoiceUrl: String, createdAt: Date, updatedAt: Date }

5. Notifications Collection

Tracks email/SMS/WhatsApp messages sent via Nodemailer. { _id: ObjectId, userId: ObjectId, type: "email" | "sms" | "whatsapp", message: String, status: "sent" | "failed", timestamp: Date }