



```
/*
Comments:
Defining main collections for MongoDB based on logical data model
The "Patient" collection aggregates disease history.
Patient Collection
*/
```

```
"Patient": {
  "_id": "patient_id_123",
  "first_name": "John",
  "last_name": "Doe",
  "phone": "123-456-7890",
  "DOB": "1990-05-12",
  "address": "123 Main St, City, State, ZIP",
  "gender": "male",
  "disease_history": {
    {
      "_id": "history_id_002",
      "survey_id": "survey_001",
      "diseases_name": "Diabetes"
    }
  }
}
```

```
Comments:
Medicine Record collection is separated from Patient collection.
This collection maintains detailed information regarding medication records and is linked
with Patient collection using "patient_id".
MedicationRecord Collection
*/
```

```
"MedicationRecord": {
  "_id": "record_001",
  "patient_id": "patient_id_123",
  "medication_issuance_frequency": "daily",
  "medication_issuance_time": "08:00 AM",
  "medicine": {
    "medicine_id": "med_001",
    "medicine_name": "Aspirin",
    "dosage_frequency": "once a day"
  }
}
```

```
/*
Comments:
Test Collection
The "Test" collection aggregates lab and lab report information.
*/
```

```
"Test": {
  "_id": "test_001",
  "test_type": "Blood Test",
  "test_date": "2024-11-12",
  "lab": {
    "lab_id": "lab_001",
    "lab_name": "City Lab",
    "zipcode": "12345"
  },
  "lab_report": {
    "report_id": "report_001",
    "illness_name": "High Cholesterol",
    "memo": "Needs diet control"
  }
}
```

```
/*
Comments:
Appointment Collection
The "Appointment" collection references the patient, doctor,
and test details for easy lookup.
*/
```

```
"Appointment": {
  "_id": "appointment_001",
  "appointment_date": "2024-11-10",
  "patient_reference": [
    {
      "patient_id": "patient_id_123",
      "first_name": "John",
      "last_name": "Doe"
    }
  ],
  "doctor_reference": [
    {
      "doctor_id": "doctor_001",
      "doctor_name": "Dr. Jane Smith"
    }
  ],
  "test_reference": [
    {
      "test_id": "test_001",
      "test_type": "Blood Test",
      "test_date": "2024-11-12"
    }
  ]
}
```

```
/*
Comments:
Survey Collection
Description of symptoms reported by the patient during the
survey, such as cough, fever, or other health-related issues.
*/
"Survey": {
  "_id": "survey_001",
  "last_sync": "2024-11-11",
  "symptom": "Cough and Fever",
  "immuno_compromised": true
}
```

```
/*
Comments:
Doctor Collection
The "Doctor" collection stores basic doctor information.
*/
```

```
"Doctor": {
  "_id": "doctor_001",
  "doctor_name": "Dr. Jane Smith",
  "license_number": "D123456",
  "phone": "987-654-3210"
}
```

```
/*
Comments:
Prescription Collection
The "Prescription" collection maintains prescription records
separately to avoid document bloat.
*/
```

```
"Prescription": {
  "_id": "presc_001",
  "doctor_id": "doctor_001",
  "patient_id": "patient_id_123",
  "date_issued": "2024-11-03",
  "dosage_instructions": "Take 1 pill every morning with
food"
}
```