



## Patient Schema Overview



Here's a detailed look at our Patient Schema, designed for managing patient data in a healthcare application:

### Main Fields

1. **Name:**
  - Type: String
  - Max Length: 100
  - Required: ☒
2. **Patient ID:**
  - Type: String
  - Unique: ☒
  - Required: ☒
3. **Date of Birth:**
  - Type: Date
  - Required: ☒
4. **Gender:**
  - Type: String
  - Required: ☒
5. **Age:**
  - Type: Number



### Personal Information

- **Adhaar:**
  - Unique and Required
- **Contact Information:**
  - **Address, Phone, and Email** fields are mandatory.



### Medical Details

- **Medical History:**
  - Chronic Conditions
  - Allergies
  - Surgeries with details (Procedure, Date, Notes)
- **Current Medications:**
  - References a "Prescription" document.
- **Lab Results & Imaging Results:**
  - Detailed findings, dates, and associated file URLs.



### Vitals and Insurance

- **Vital Signs:**

Includes Height, Weight, Blood Pressure, Temperature, Pulse, and Respiratory Rate.
- **Insurance Information:**

Provider, Policy Number, and Billing Address.

## History and Appointments

- **Payment History:**  
Includes Date, Amount, Status, and Transaction Details.
  - **Appointments & Visits:**  
Comprehensive visit records with symptoms, diagnosis, treatment, and outcomes.
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## Security and Timestamps

- **Password:**
  - Min Length: 6
  - Select: false for sensitive data
- **Timestamps:**  
Automatically tracks when the record is created and updated.



# Doctor Schema Overview



Here's a detailed look at the **Doctor Schema**, designed for managing doctor data in a healthcare application:

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## Main Fields

1. **Name:**
  - Type: String
  - Required: ☒
2. **Email:**
  - Type: String
  - Unique: ☒
  - Required: ☒
3. **Phone:**
  - Type: String
  - Required: ☒
4. **Department:**
  - Type: String
  - Required: ☒
5. **Hospital:**
  - Type: Object Id
  - References: Hospital Schema
  - Required: ☒



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## Associated Data

- **Patients:**
  - References multiple "Patient" documents.
- **Appointments:**
  - References multiple "Appointment" documents.
- **Prescriptions:**
  - References multiple "Prescription" documents.



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## Availability Schedule

- **Days:**
  - Type: Array of Strings
  - Required: ☒
- **Time Slots:**
  - **From:** Required
  - **To:** Required



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## Security and Timestamps

- **Password:**
  - Type: String
  - Required: ☒
- **Timestamps:**


Automatically tracks when the record is created and updated.

# Hospital Schema Overview

Here's a detailed look at the **Hospital Schema**, crafted for managing hospital data effectively in a healthcare system:

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## Main Fields

1. **Name:**
    - Type: String
    - Required: 
  2. **Location:**
    - Includes:
      - **Address**
      - **City**
      - **State**
      - **Zip Code**
    - All fields are mandatory.
  3. **Contact Information:**
    - **Phone:** Required
    - **Email:** Required
  4. **Website:**
    - Type: String
    - Optional
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## Services and Associated Data

- **Services Offered:**
    - Type: Array of Strings
  - **Doctors and Patients:**
    - References multiple "Doctor" and "Patient" documents.
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## Bed Availability

- **Total Beds:**
    - Type: Number
    - Required: ☒
  - **Available Beds:**
    - Type: Number
    - Required: ☒
- 

## Security and Identification

- **Identifier:**
    - Type: String
    - Unique: ☒
    - Hidden: ☒
  - **Password:**
    - Type: String
    - Required: ☒
    - Hidden: ☒
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## Timestamps

- Automatically tracks when the record is created and updated.





# Prescription Schema Overview



Here's an overview of the **Prescription Schema**, built to manage prescription details efficiently in a healthcare application:



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## Main Fields

1. **Patient ID:**
    - Type: ObjectId
    - References: "Patient" document
    - Required: 
  2. **Doctor ID:**
    - Type: Object Id
    - References: "Doctor" document
    - Required: 
  3. **Appointment ID:**
    - Type: Object Id
    - References: "Appointment" document
    - Optional
  4. **Date:**
    - Type: Date
    - Default: Current Date
- 



## Medical Details

- **Symptoms:**
  - Type: String
  - Required: 
- **Diagnosis:**
  - Type: String
  - Required: 
- **Medicines:**
  - Array of objects, each with:

- **Name**
  - **Dosage**
  - **Duration**
  - **Notes**
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#### **Prescription Status**

- **Status:**
    - Type: String
    - Options: pending, completed
    - Default: pending
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#### **Timestamps**

- Automatically tracks when the record is created and updated.








# Appointment Schema Overview



Here's an overview of the **Appointment Schema**, designed for scheduling and managing appointments effectively:

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## Main Fields

1. **Patient ID:**
    - Type: Object Id
    - References: "Patient" document
    - Required: 
  2. **Doctor ID:**
    - Type: Object Id
    - References: "Doctor" document
    - Required: 
  3. **Date:**
    - Type: Date
    - Required: 
  4. **Time:**
    - Type: String
    - Required: 
  5. **Reason:**
    - Type: String
    - Required: 
- 



## Appointment Status

- **Status:**
    - Type: String
    - Options: pending, completed, cancelled
    - Default: pending
- 



## Timestamps



- Automatically tracks when the record is created and updated.