

Database Structure

Users:

```
{
  _id: ObjectId,
  role: "patient" | "admin" | "agency",
  name: String,
  email: String,
  password: String,
  phoneNumber: String,
  address: {
    street: String,
    city: String,
    state: String,
    pincode: String,
    country: String
  },
  profileImage: String,
  referralCode: String,
  referredBy: String,
  isActive: Boolean,
  createdAt: Date,
  updatedAt: Date
}
```

Patient_profiles:

```
{
  _id: ObjectId,
  userId: ObjectId,
  age: Number,
  gender: "male" | "female" | "other",
  emergencyContact: {
    name: String,
    phone: String,
    relationship: String
  },
  medicalHistory: String,
  prescriptionImage: String,
  otherDocuments: [String],
  otherDetails: String,
  createdAt: Date,
  updatedAt: Date
}
```

```
} `
```

Agencies:

```
{  
  _id: ObjectId,  
  userId: ObjectId,  
  agencyName: String,  
  licenseNumber: String,  
  contactPerson: String,  
  phoneNumber: String,  
  email: String,  
  address: {  
    street: String,  
    city: String,  
    state: String,  
    pincode: String,  
    country: String  
  },  
  languagesSpoken: [String],  
  ratings: Number,  
  isApproved: Boolean,  
  createdAt: Date,  
  updatedAt: Date  
}
```

Caretakers:

```
{  
  _id: ObjectId,  
  agencyId: ObjectId,  
  name: String,  
  age: Number,  
  gender: String,  
  experienceYears: Number,  
  certifications: [String],  
  education: String,  
  photo: String,  
  languages: [String],  
  rating: Number,  
  isAvailable: Boolean,  
  price: Number,      // base price by agency  
  finalPrice: Number, // price after admin markup  
  servicesOffered: [ObjectId], // reference to services
```

```
backgroundCheckDocument: String,  
workHoursPerDay: Number,  
locationPreference: "city-wide" | "local area",  
createdAt: Date,  
updatedAt: Date  
}
```

services:

```
{  
  _id: ObjectId,  
  serviceName: String, // e.g., "Elderly Care"  
  description: String,  
  iconUrl: String,  
  category: "care" | "nursing" | "therapy" | "baby-care",  
  isActive: Boolean,  
  createdAt: Date,  
  updatedAt: Date  
}
```

Packages:

```
{  
  _id: ObjectId,  
  agencyId: ObjectId,  
  packageName: String, // e.g. "Monthly Elderly Care"  
  description: String,  
  durationType: "weekly" | "monthly",  
  durationDays: Number, // e.g. 30 for monthly  
  basePrice: Number, // from agency  
  finalPrice: Number, // with 10% added by admin  
  servicesIncluded: [ObjectId], // reference to services  
  includesNursing: Boolean,  
  includesTherapy: Boolean,  
  visitsPerDay: Number,  
  hoursPerVisit: Number,  
  isActive: Boolean,  
  createdAt: Date,  
  updatedAt: Date  
}
```

Bookings:

```
{  
  _id: ObjectId,  
  ...
```

patientId: ObjectId,
patientProfileId: ObjectId,
caretakerId: ObjectId,
agencyId: ObjectId,
serviceId: ObjectId,
packageId: ObjectId,
durationType: "single" | "weekly" | "monthly",
selectedStartDate: Date,
selectedEndDate: Date,

/** Specific to monthly package */

dailySchedules: [
 {
 date: Date,
 startTime: String, // e.g., "08:00 AM"
 endTime: String // e.g., "10:00 AM"
 }
],

filtersApplied: {
 language: [String],
 ratingAbove: Number,
 priceBelow: Number
},

status: "pending" | "confirmed" | "cancelled" | "completed",
notes: String,
ratingGiven: Number,
halfPaymentDone: Boolean,
fullPaymentDone: Boolean,
createdAt: Date,
updatedAt: Date
}

Payments:

{
 _id: ObjectId,
 bookingId: ObjectId,
 patientId: ObjectId,
 totalAmount: Number,
 createdAt: Date,
 updatedAt: Date,
 status: "pending" | "confirmed" | "cancelled" | "completed",
 notes: String,
 ratingGiven: Number,
 halfPaymentDone: Boolean,
 fullPaymentDone: Boolean,
 createdAt: Date,
 updatedAt: Date
}

```
amountPaid: Number,  
paymentStage: "initial" | "final",  
paymentMode: "card" | "upi" | "wallet" | "netbanking",  
transactionId: String,  
status: "success" | "pending" | "failed",  
paidAt: Date  
}
```

Referrals:

```
{  
  _id: ObjectId,  
  referrerId: ObjectId,  
  refereeId: ObjectId,  
  refereeEmail: String,  
  referralDate: Date,  
  discountValue: Number,  
  status: "pending" | "used",  
  appliedOnBookingId: ObjectId,  
  createdAt: Date  
}
```

Admin_settings:

```
{  
  _id: ObjectId,  
  priceMarkupPercentage: Number, // e.g., 10  
  referralDiscountPercentage: Number, // e.g., 5%  
  maxBookingsPerCaretakerPerDay: Number,  
  supportEmail: String,  
  cancellationPolicy: String,  
  createdAt: Date,  
  updatedAt: Date  
}
```

Reviews:

```
{  
  _id: ObjectId,  
  bookingId: ObjectId,  
  caretakerId: ObjectId,  
  patientId: ObjectId,  
  rating: Number,  
  reviewText: String,  
  reviewedAt: Date  
}
```

}

ER Diagram for Online Caregiver Booking System



