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## **DATABASE SCHEMA** **(MONGODB)**

**PROJECT – SMART CITY  
MANAGEMENT - 2025**

## USERS - STORES REGISTERED USERS (ADMIN CITIZEN)

### Users

```
{  
  ➤ _id: ObjectId,  
  ➤ name: String,  
  ➤ email: String (unique),  
  ➤ password: String (hashed),  
  ➤ role: String ("user" | "admin"),  
  ➤ contactNo: String,  
  ➤ createdAt: Date,  
  ➤ updatedAt: Date  
}
```

# EnergyData

Stores real-time energy usage logs.

## EnergyData

```
{  
  ➤ _id: ObjectId,  
  ➤ sector: String,  
  ➤ usage: Number,  
  ➤ status: String ("Normal" | "High Load" |  
    "Critical"),  
  ➤ createdAt: Date  
}
```

## AirDataStores real-time air quality index (AQI) data.

### AirData

```
{  
➤ _id: ObjectId,  
➤ location: String,  
➤ AQI: Number,  
➤ pollutantType: String, // e.g., PM2.5, PM10,  
  CO2  
➤ status: String ("Good" | "Moderate" |  
  "Unhealthy" | "Hazardous"),  
➤ createdAt: Date  
}
```

## ComplaintsStores citizen complaints from the Contact page.

### Complaints

```
{  
  ➤ _id: ObjectId,                                ➤ problemType: String  
  ➤ name: String,                                  ➤ ("Water" | "Electricity" | "Waste" |  
  ➤ age: Number,                                   "Other"), customProblem: String,  
  ➤ contactNo: String,                             // only if "Other" description: String,  
  ➤ email: String, address: { houseNo:             // explanation of problem  
    String,                                       ➤ suggestion: String, status: String  
  ➤ street: String, cityRegion: String            ("Pending" | "In Progress" |  
    ("Gomti Nagar" | "Hazratganj" |              "Resolved"),  
    "Kaiserbagh") },                             ➤ createdAt: Date  
}
```

## ChatbotLogsStores chat history and bot interactions.

### ChatbotLogs

```
{  
  ➤ _id: ObjectId,  
  ➤ userId: ObjectId (ref -> Users),  
  ➤ query: String,  
  ➤ response: String,  
  ➤ suggestions: [String],  
  ➤ createdAt: Date  
}
```

THANKS

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