# **Hospital Inventory Management System**

## **Overview**

The Hospital Inventory Management System is a Node.js-based application that enables real-time lookup and tracking of critical hospital assets such as ventilators and hospital details. The system allows administrators to add, update, search, and delete hospital and ventilator records efficiently.

## **Features**

* **Retrieve** hospital and ventilator details from the database
* **Search** hospitals by name
* **Search** ventilators by status or hospital name
* **Add** new hospital details and ventilators
* **Update** ventilator status
* **Delete** ventilators by ID

## **Technologies Used**

* **Backend:** Node.js, Express.js
* **Database:** MongoDB
* **API Testing:** Postman

## **Installation & Setup**

### **Prerequisites**

Ensure you have the following installed on your machine:

* Node.js
* MongoDB

### **Steps to Run the Application**

1. **Clone the repository**

git clone <repository-url>  
cd hospital-inventory-management

1. **Install dependencies**

npm install

1. **Start MongoDB** (Ensure MongoDB is running on mongodb://127.0.0.1:27017)

mongod

1. **Run the server**

node app.js

1. **API Endpoints** The server runs on <http://localhost:8000>. You can test the following API endpoints using Postman:

### **API Endpoints**

#### **Hospital APIs**

* **GET /hospitaldetails** - Retrieve all hospital details
* **POST /searchhospitalbyname** - Search hospital by name (Pass name as query parameter)
* **POST /addhospital** - Add a new hospital (Pass hId, name, location, address, contactNo in request body)

#### **Ventilator APIs**

* **GET /ventilatordetails** - Retrieve all ventilator details
* **POST /searchventilatorbystatus** - Search ventilators by status (Pass status in request body)
* **POST /searchventbyname** - Search ventilators by hospital name (Pass name as query parameter)
* **POST /addventilator** - Add a new ventilator (Pass hId, ventilatorId, status, name in request body)
* **PUT /updateventilator** - Update ventilator status (Pass ventilatorId, status in request body)
* **DELETE /deleteventilator** - Delete a ventilator (Pass ventilatorId as query parameter)

## **Middleware**

This project includes authentication middleware (middleware.checkToken) to ensure secure API access.