

MEDICARE – HOSPITAL MANAGEMENT SYSTEM

Day 3 KT Task Implementation Document

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Project Title: Medicare – Hospital Management System

GitHub Repository Link:

<https://github.com/natchitha712-maker>

1. Introduction

This project titled “Medicare – Hospital Management System” is a backend application developed using Node.js and Express.js.

The main purpose of this project is to manage patient records such as name, age, and disease using RESTful APIs.

This project is implemented as part of Day 3 KT Task.

2. Technologies Used

Tool

Purpose

Node.js

Backend runtime

Express.js

Server framework

JSON

Data storage

Thunder Client

API Testing

GitHub

Version control

VS Code

Development tool

3. Project Folder Structure

medicare/

|

 |—— **data/**

 |

 |—— **routes/**

 |

 |—— **index.js**

 |—— **package.json**

 └—— **package-lock.json**

4. Step-by-Step Implementation Process

Step 1: Create Project Folder Bash

```
mkdir medicare cd medicare Step
```

2: Initialize Node Project Bash

```
npm init -y
```

Step 3: Install Express Bash npm

```
install express Step 4: Create
```

Files index.js

routes/patientRoutes.js

data/patients.json

Step 5: index.js Code

```
Js const express = require("express"); const app = express(); const patientRoutes  
= require("./routes/patientRoutes");
```

```
app.use(express.json()); app.use("/patients", patientRoutes);
```

```
app.get("/", (req, res) => { res.send("Medicare Hospital  
API Running");
```

```
});
```

```
app.listen(3000, () => { console.log("Server running on http://localhost:3000"); });
```

Step 6: patientRoutes.js

```
Js const express = require("express"); const router = express.Router();
const patients = require("../data/patients.json");

router.get("/", (req, res) => { res.json(patients);
});

router.post("/", (req, res) => {
  const newPatient =
    req.body;
    patients.push(newPatient);
  res.status(201).json({
    message: "Patient added successfully",
    data: newPatient
  });
});

module.exports = router;
```

Step 7: patients.json

Json

```
[  
  {  
    "id": 1,  
    "name": "John Doe",  
    "age": 30,  
    "city": "New York"  
  },  
  {  
    "id": 2,  
    "name": "Jane Smith",  
    "age": 25,  
    "city": "Los Angeles"  
  }]
```

```
        "name": "Havya  
",    "age": 21,  
        "disease": "Fever"  
    }  
]
```

5. Running the Project

Bash node
index.js

Server will run at: <http://localhost:3000>

6. Testing Using Thunder Client POST Request:

<http://localhost:3000/patients>

Body (JSON):

Json

{

```
"id": 2,  
"name": "ram kumar",
```

```
    "age": 22,  
    "disease": "Cold"  
}
```

Output: Patient added successfully

7. GitHub Repository Link

<https://github.com/natchitha712-maker>

8. Conclusion

The Medicare Hospital Management System was successfully implemented using Node.js and Express.

It supports REST API operations and helps in managing patient records efficiently.