

2022

Unit 4: NODE JS & Mongo DB

## **ASSIGNMENT**

Name: <u>Tejas</u> <u>Venugopalan</u>	SRN:PES1UG22AM1	Section: C
	Date:04-12-2023	Unit 4 Assignment Exercise
PROBLEM STATEME	NT1 (for odd number	SRNs):



Create a Node.js application that interacts with a MongoDB database named Bangalore\_City. This database contains a collection of restaurants, and each restaurant document should include the following entities:

rest\_name: Name of the restaurant. rest\_id: Unique identifier for the restaurant. rest\_addr: Address of the restaurant. rest\_reviews: Grade assigned to the restaurant. Food\_menu: Menu items offered by the restaurant.

Implement CRUD operations for the "restaurants" collection:

1. Create a new restaurant:

Design a route that allows the addition of a new restaurant to the collection. Users should be able to provide details such as rest\_name, rest\_addr, rest\_grade, rest\_reviews, and Food\_menu.

2. Read all restaurants:

Create a route that retrieves and displays all restaurants in the collection.

3. Update a restaurant's grade:

Design a route that allows users to update the rest\_grade of a specific restaurant based on the rest\_id.

#### **OBJECTIVE**



The objective of this exercise is to test the student on back end frame work and storage Node JS with Mongo DB. It evaluates the student's knowledge Node Js App, modules, Node Js ,HTTP modules, Reading and writing to Mongo DB through Node Js.

## **PREREQUISITE**

In order to complete this exercise, the student needs to understand the fundamentals of JavaScript, Mongo DB Operations with Nodejs modules.

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### **PROGRAM**

```
JS index.js X 🍪 index.html
JS index.js > ...
 1 const express = require('express');
  3 const bodyParser = require('body-parser');
  5 const app = express();
  6 const PORT = process.env.PORT | 3000;
  9 mongoose.connect('mongodb://localhost/Bangalore_City', {
 10 useNewUrlParser: true,
      useUnifiedTopology: true,
 14 // Create a schema for the restaurant
 15 const restaurantSchema = new mongoose.Schema({
       rest_name: String,
       rest_id: { type: String, unique: true },
       rest_addr: String,
       rest_reviews: Number,
      food_menu: [String],
 24 const Restaurant = mongoose.model('Restaurant', restaurantSchema);
 26 // Middleware to parse JSON requests
 27 app.use(bodyParser.json());
 29 // Create a new restaurant
 30 app.post('/restaurants', async (req, res) => {
         const { rest_name, rest_id, rest_addr, rest_reviews, food_menu } = req.body;
         const newRestaurant = await Restaurant.create({
          rest_name,
           rest_id,
           rest_addr,
           rest_reviews,
           food_menu,
```



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```
ex.js > ...
     const { rest_name, rest_id, rest_addr, rest_reviews, food_menu } = req.body;
     const newRestaurant = await Restaurant.create({
       rest_name,
       rest_id,
      rest_addr,
       rest_reviews,
       food_menu,
     });
     res.json(newRestaurant);
   } catch (error) {
     res.status(500).json({ error: error.message });
  // Get all restaurants
 app.get('/restaurants', async (req, res) => {
     const restaurants = await Restaurant.find();
     res.json(restaurants);
   } catch (error) {
     res.status(500).json({ error: error.message });
 // ... (Other routes for updating and deleting)
 // Serve HTML file
 app.get('/', (req, res) => {
   res.sendFile(__dirname + '/index.html');
 });
 app.listen(PORT, () => {
   console.log(`Server is running on http://localhost:${PORT}`);
```



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#### TERMINAL EXECUTION FOR RUNNING SERVER...

PROBLEMS TERMINAL PS C:\Users\User\Documents\WT\_ASSIGNMENT> node index.js (node:5324) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser ha s no effect since Node.js Driver version 4.0.0 and will be removed in the next major version (Use `node --trace-warnings ...` to show where the warning was created) (node:5324) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopol ogy has no effect since Node.js Driver version 4.0.0 and will be removed in the next major versi PS C:\Users\User\Documents\WT\_ASSIGNMENT> node index.js (node:10208) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser h as no effect since Node.js Driver version 4.0.0 and will be removed in the next major version (Use `node --trace-warnings ...` to show where the warning was created) (node:10208) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopo logy has no effect since Node.js Driver version 4.0.0 and will be removed in the next major vers ion PS C:\Users\User\Documents\WT ASSIGNMENT> node index.js (node:7972) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser ha no effect since Node.js Driver version 4.0.0 and will be removed in the next major version (Use `node --trace-warnings ...` to show where the warning was created) (node:7972) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopol ogy has no effect since Node.js Driver version 4.0.0 and will be removed in the next major versi Server is running on http://localhost:3000



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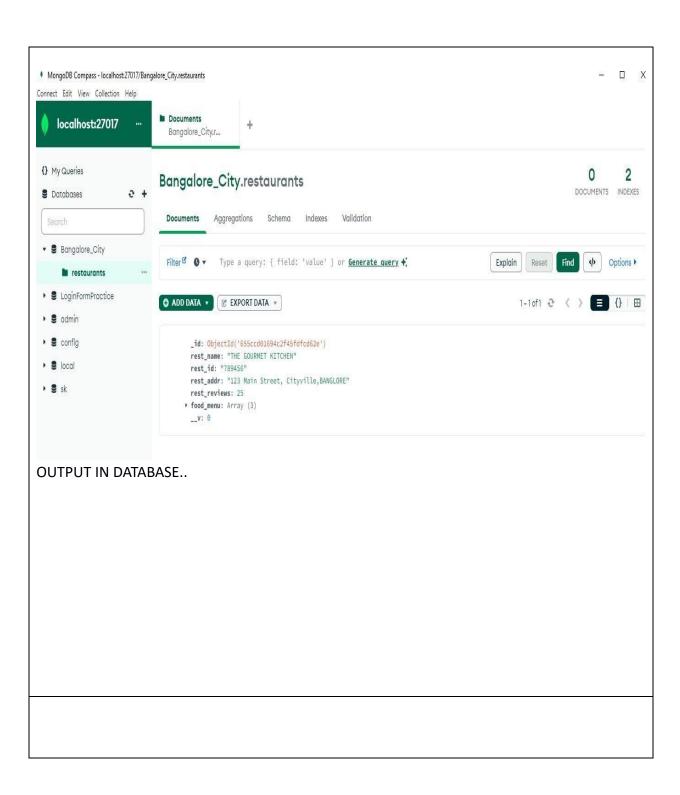


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Restaurant Details		D. Att COLLEGE OF WALD	
estaurant Name: THE GOURMET KITO parated): VEG PIZZA,NON - VEG PIZ		Restaurant Address: 123 Main Street, Cityville,BA Restaurant Re	views: 25 Food Menu (comm
estaurant ID to Update:	Updated Restaurant Name:	Updated Restaurant Address:	Updated Restaurant Reviews:
ll Restaurants:			
. THE COLDMET VITCHEN 1	23 Main Street, Cityville BANGLORE - Reviews	25 - Menu: VEG PIZZA, NON - VEG PIZZA, AND OTHERS	
• THE GOURNET KITCHEN - I	7		
· THE GOUNGER RECEIEN - I	, , , , , , , , , , , , , , , , , , , ,		
THE GOUNGET ATCHEAST	, v. ,		
THE GOUNGET ATCHEAST	, v. ,		
THE GOUNGET ATCHEAST			
THE GOUNGET KITCHESS I			
THE GOUNGET ATCHEST			
THE GOUNGET ATCHEST			
THE GOUNGET ATCHEST 1			
THE GOUNGET ATCHEAST			
THE GOUNGET ATTCHEST			
THE GOUNGER RICHEST			







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