



Department of Information and Communication Technology

Subject: Advanced Web Technology

Aim: Develop a web application which involves database operations using NodeJS

 Enrollment No:- 92200133003

CODE:-

```
index.js
const express = require("express");
const app = express();
const port = 3001;
const cors = require("cors");
app.use(
 cors({
  origin: "http://localhost:5173",
 })
//middleware
app.use(express.json());
app.use(express.urlencoded({ extended: true }));
const dbConfig = require("./src/config/db.config");
const mongoose = require("mongoose");
mongoose.Promise = global.Promise;
mongoose
 .connect(dbConfig.url, {
  useNewUrlParser: true,
  useUnifiedTopology: true,
 .then(() => {
  console.log("connection done with database");
 })
 .catch((err) => {
  console.log("error in db connection ", err);
  process.exit();
 });
const blogRouter = require("./src/blog/blog.routes");
app.use("/api/blog", blogRouter);
app.get("/", (req, res) => res.send("Hello World!"));
app.listen(port, () => console.log(`Example app listening on port ${port}!`));
blog.controller.js
const blogService = require("./blog.service");
exports.create = async (req, res) => {
 const { title, description, author } = req.body;
 if (!title || !description || !author) {
  return res.status(400).json({ message: "Fields are empty" });
 }
  const blog = await blogService.createBlog(title, description, author);
  res.status(201).json({ message: "Blog created successfully", blog });
 } catch (err) {
  console.error("Error creating blog:", err);
  res.status(500).json({ error: "Internal server error" });
};
```





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```
exports.findAll = async (req, res) => {
 try {
  const blogs = await blogService.findAllBlogs();
  res.send({ message: "Blogs data", blogs });
 } catch (err) {
   console.error("Error fetching blogs:", err);
   res.status(500).json({ error: "Internal server error" });
};
exports.findAllByTitle = async (req, res) => {
 const title = req.query.title;
 try {
   const blogs = await blogService.findBlogsByTitle(title);
  res.send({ message: "Blogs data", blogs });
 } catch (err) {
  console.error("Error fetching blogs by title:", err);
   res.status(500).json({ error: "Internal server error" });
};
exports.findOne = async (req, res) => {
 const id = req.params.id;
   const blog = await blogService.findBlogByld(id);
  if (!blog) {
    return res.status(400).json({ message: "No blog found with id: " + id });
  res.json({ message: "Data found", blog });
 } catch (err) {
   console.error("Error fetching blog by id:", err);
   res.status(500).json({ error: "Internal server error" });
};
exports.update = async (req, res) => {
 const id = req.params.id;
 const updateData = req.body;
 try {
   const result = await blogService.updateBlog(id, updateData);
  if (!result) {
    return res.status(400).json({ message: "No blog found with id: " + id });
  res.json({ message: "Blog updated successfully" });
 } catch (err) {
   console.error("Error updating blog:", err);
   res.status(500).json({ error: "Internal server error" });
};
exports.delete = async (req, res) => {
 const id = req.params.id;
 try {
  const result = await blogService.deleteBlog(id);
  if (!result) {
    return res.status(400).json({ message: "No blog found with id: " + id });
   res.json({ message: "Blog deleted successfully" });
   console.error("Error deleting blog:", err);
   res.status(500).json({ error: "Internal server error" });
};
```





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Experiment :- 2 Date:- 29-03-2025

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```
blog.model.js
```

```
const mongoose = require("mongoose");
var schema = new mongoose.Schema(
  title: {
   type: String,
   required: true,
  description: {
   type: String,
   required: true,
  author: {
   type: String,
   required: true,
  timestamps: true,
var blog = new mongoose.model("mublog", schema);
module.exports = blog;
blog.routes.js
const blog = require("./blog.controller");
const express = require("express");
const router = express.Router();
router.post("/", blog.create);
router.get("/", blog.findAll);
router.get("/title/", blog.findAllByTitle);
router.get("/:id", blog.findOne);
router.put("/:id", blog.update);
router.delete("/:id", blog.delete);
module.exports = router;
blog.service.js
const BlogModel = require("./blog.model");
```

```
const BlogModel = require("./blog.model");
exports.createBlog = async (title, description, author) => {
  const blog = new BlogModel({
    title,
    description,
    author,
    });
  return await blog.save();
};
exports.findAllBlogs = async () => {
  return await BlogModel.find();
};
```



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Experiment :- 2

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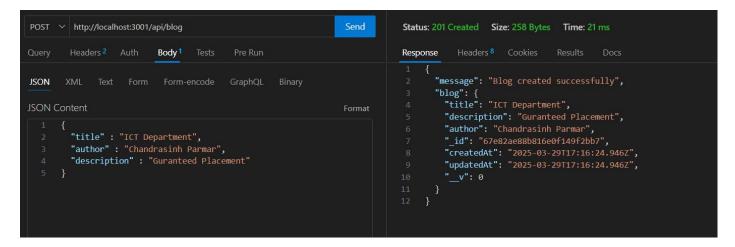
```
exports.findBlogsByTitle = async (title) => {
 const condition = title
  ? { title: { $regex: new RegExp(title), $options: "i" } }
  : {};
 return await BlogModel.find(condition);
};
exports.findBlogById = async (id) => {
 return await BlogModel.findByld(id);
};
exports.updateBlog = async (id, updateData) => {
 return await BlogModel.findByldAndUpdate(id, updateData, {
  useFindAndModify: false,
});
};
exports.deleteBlog = async (id) => {
return await BlogModel.findByldAndDelete(id);
db.config.js
module.exports = {
  url: "mongodb://127.0.0.1:27017/mu_blog_db",
 };
```

OUTPUT:-

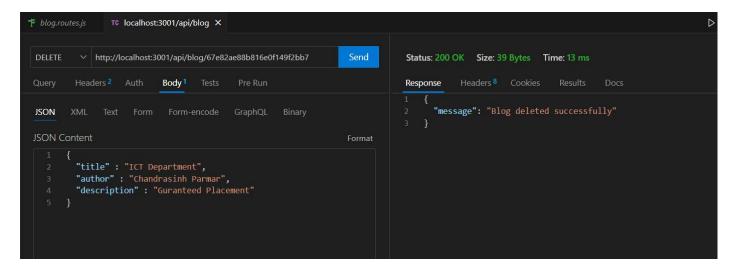
<u>Get</u>



POST



DELETE:



PUT:

```
TC localhost:3001/api/blog * X
PUT V http://localhost:3001/api/blog/67e2617eb902e41cc7a96ffe
                                                                                Status: 200 OK Size: 816 Bytes Time: 10 ms
                           Body 1
                                                                                Response
                                                                                        "message": "Blogs data",
JSON
                                                                                        "blogs": [
                                                                    Format
                                                                                           "_id": "67e2617eb902e41cc7a96ffe",
                                                                                           "title": "My first Blog",
         "title" : "ICT Department",
                                                                                            "description": "Badhiya hai",
        "author" : "Chandrasinh Parmar",
                                                                                            "author": "PG Sarvaiya",
         "description" : "Guranteed Placement"
                                                                                            "createdAt": "2025-03-25T07:55:42.743Z",
                                                                                            "updatedAt": "2025-03-25T07:55:42.743Z",
```



MONGODB:

