ASSIGNMENT 4 – Creating a Database using MongoDB and Mongosh

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for Women's

```
Index.js
express = require('express')
const mongoose = require ('mongoose');
const Product = require('./models/product.model.js');
const app = express()
app.use(express.json());
//reading all products
app.get('/', function (req, res) {
         res.send("hello from the node api update");
     });
     app.get('/api/products', async (req,res)=> {
      try {
         const products = await Product.find({});
         res.status(200).json(products);
         }catch(error){
            res.status(500).json({message: error.message});
     });
      //read api but by only one product
     app.get('/api/product/:id', async (req,res) =>{
```

```
try{
     const {id} = req.params;
     const product = await Product.findById(id);
     res.status(200).json( product );

} catch(error){
    res.status(500).json({message: error.message});
}
});

//creat api
app.post('/api/products',async (req,res)=>{
try{
    const product = await Product.create(req.body);
    res.status(200).json(product);
```

```
}catch (error){
       res.status(500).json({message: error.message });
      });
          //update a product
          app.put('/api/product/:id', async (req,res) => {
             try {
                const{id} = req.params;
                 const product = await Product.findByIdAndUpdate(id ,
req.body);
                 if(!product){
                   return res.status(404).json({message:"Product not found"});
                  const updatedProduct = await Product.findById(id);
                   res.status(200).json(updatedProduct);
             }catch(error){
                res.status(500).json({message: error.message });
          });
          app.delete("/api/product/:id", async(req,res)=>{
             try{
                const{id}= req.params;
               const product = await Product.findByIdAndDelete(id);
               if (!product){
                return res.status(404).json({message: "Product not found"});
               res.status(200).json({message:"Product deleted successfully"});
             }catch(error){
                res.status(500).json({message: error.message });
```

```
//here first i connected db and then listened to the port

mongoose.connect("mongodb+srv://akashvaddi333:K5m18vy6fB6aU7K2@cluster0.h
p9gamr.mongodb.net/Node-API?retryWrites=true&w=majority&appName=Cluster0")
.then(() => {console.log('Connected!');
app.listen(3000, () =>{
    console.log('server is running on port 3000')
});
});
```

Package. Json

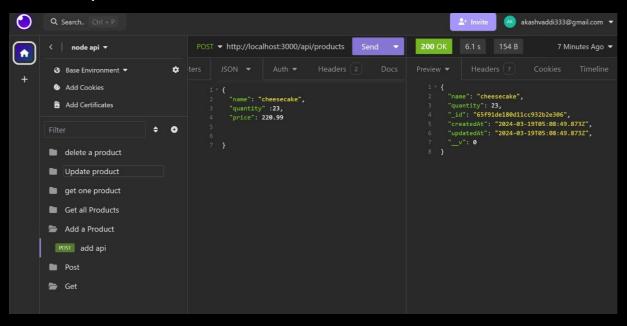
```
"name": "aka-qpi",
"version": "1.0.0",
"description": "",
"main": "index.js",
"scripts": {
  "test": "echo \"Error: no test specified\" && exit 1",
  "serve": "node index.js",
  "dev": "nodemon index.js"
},
"keywords": [],
"author": "",
"license": "ISC",
"dependencies": {
  "express": "^4.18.3",
  "mongodb": "^6.5.0",
  "mongoose": "^8.2.2"
},
"devDependencies": {
  "nodemon": "^3.1.0"
```

Product.model.js

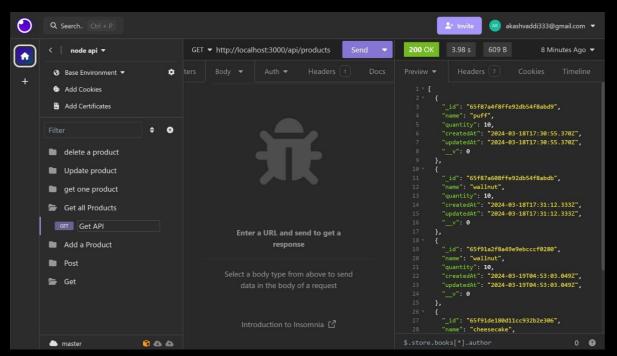
```
const mongoose = require ('mongoose');
const ProductSchema = mongoose.Schema(
        name: {
                type:String,
                required: [true, "proto"],
        },
        quantity:{
            type:Number,
            required:true,
            default:0
        },
        image:{
            type:String,
            required: false
        },
            timestamps: true,
);
const Product = mongoose.model("Product", ProductSchema);
module.exports= Product;
```

CRUD operations

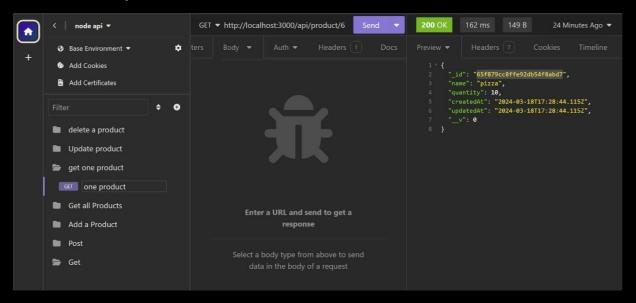
Create api:



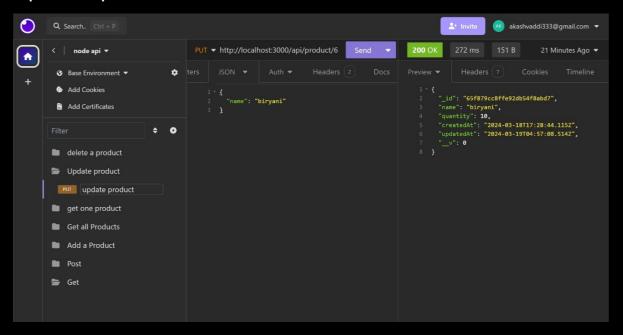
Read Api:



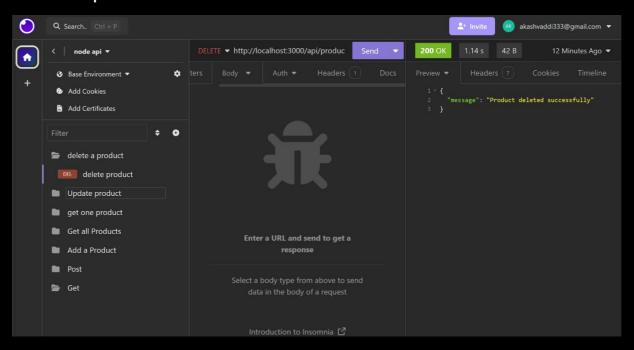
Read one Api:



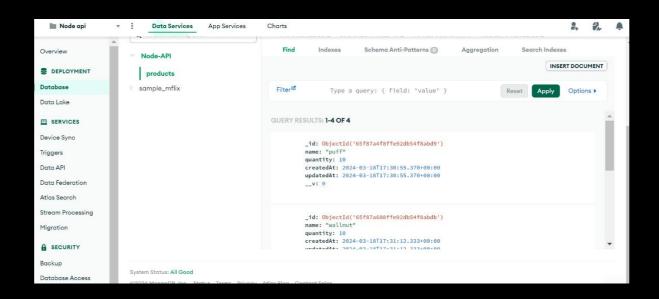
Update Api:



Delete Api:



MongoDB: (final view)



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 - ✓ models
 - Js product.model.js
 - > node_modules
 - .gitignore
 - Js index.js
 - {} package-lock.json
 - {} package.json