

Assignment-4

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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 apiupdate");
});

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});
    }
});

//create 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 updated Product=await Product.findById(id);
    res.status(200).json(updated Product);

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

  //delete a product

  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": "nodemonindex.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"],

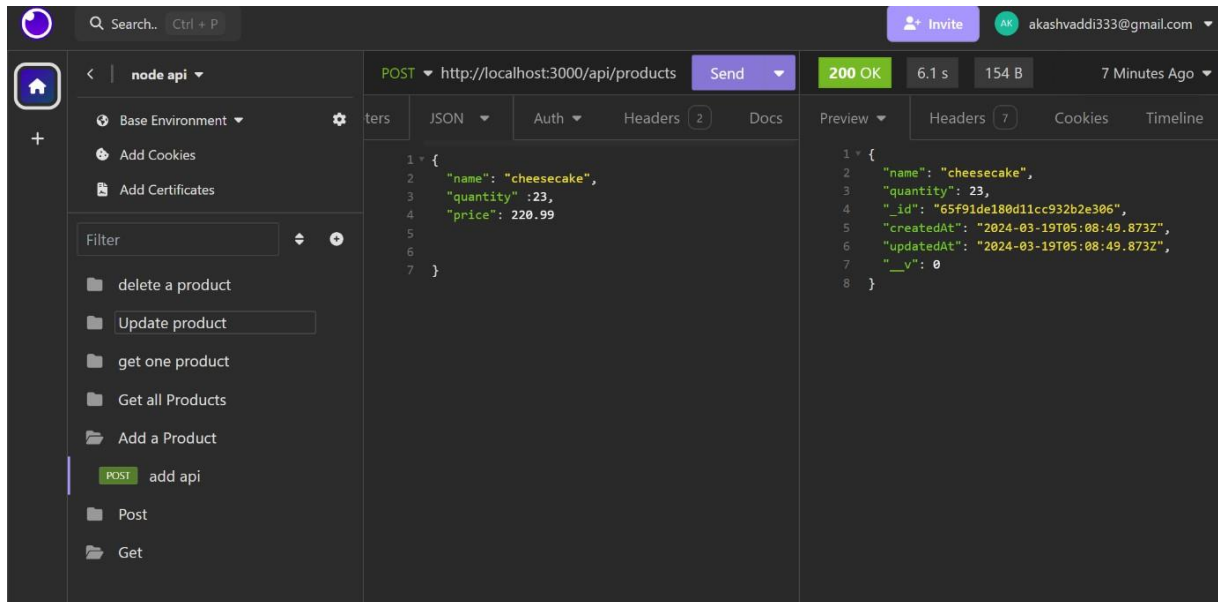
    },
    quantity:{
      type:Number,
      required:true,
      default:0
    },
    image:{
      type:String,
      required:false
    },

  },
  {
    timestamps:true,
  }
);

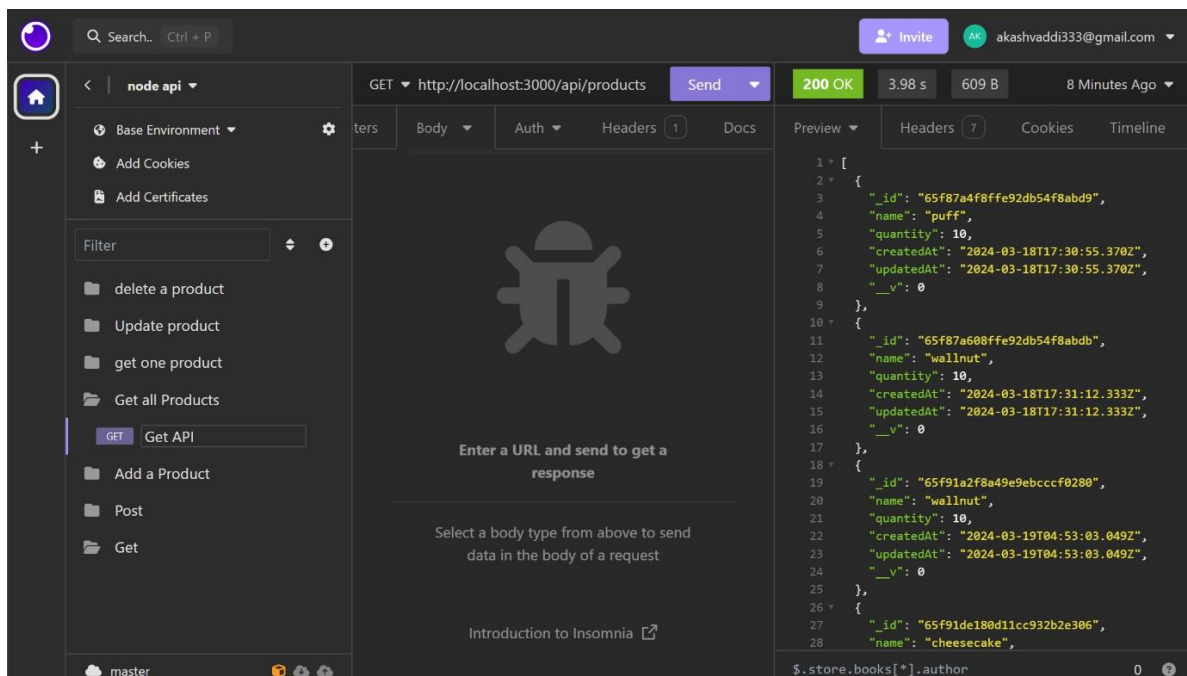
const Product=mongoose.model("Product",ProductSchema);
module.exports= Product;
```

• **CRUD operations**

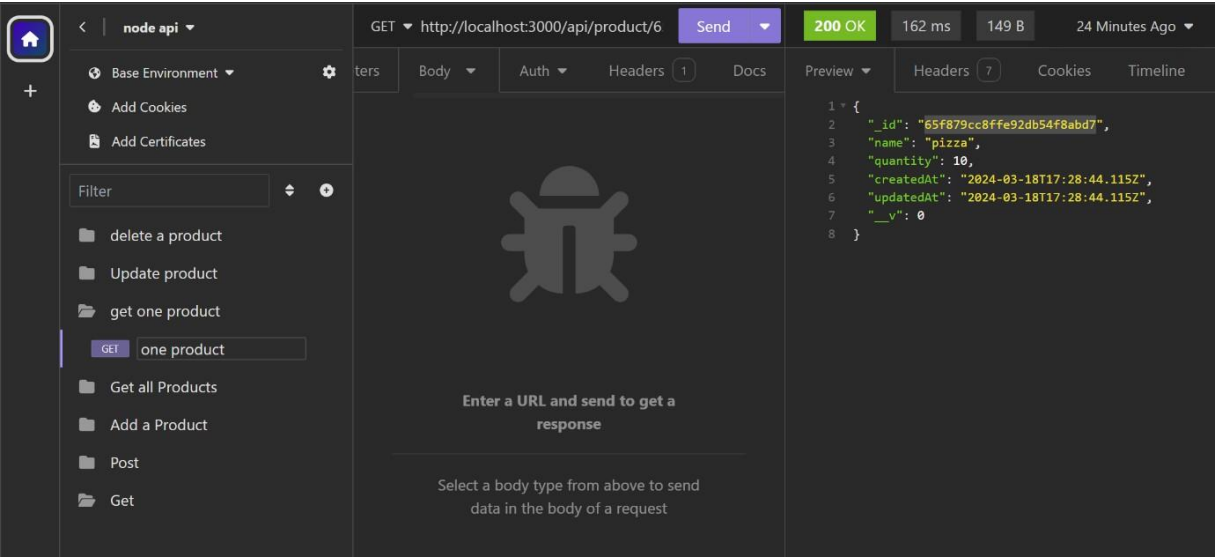
Create api:



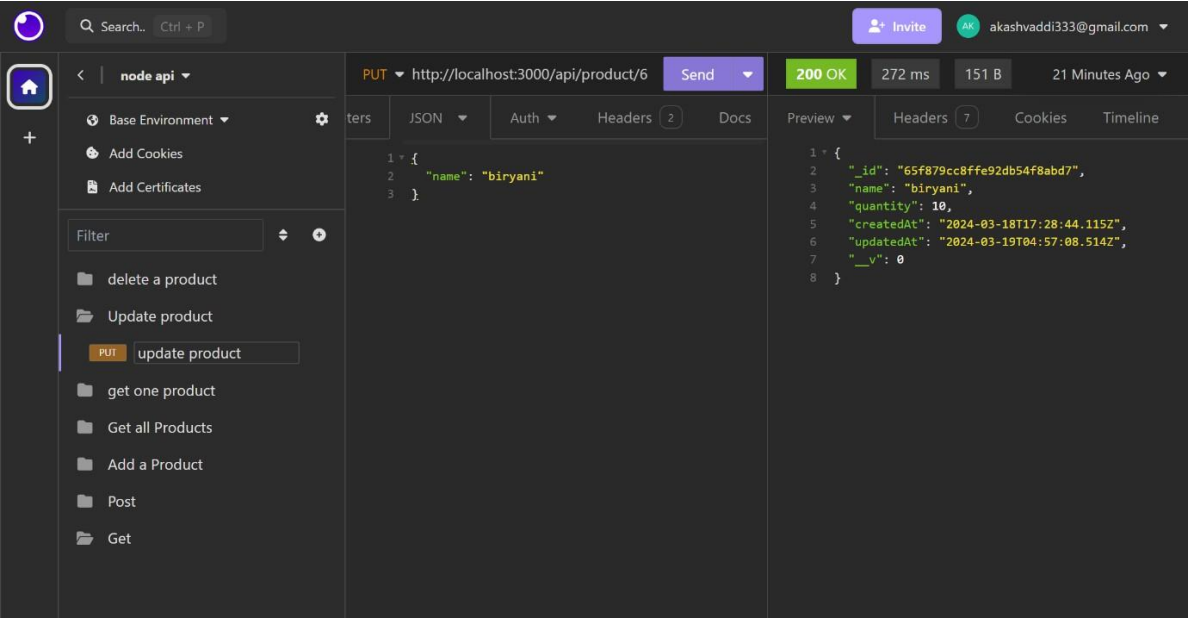
Read Api:



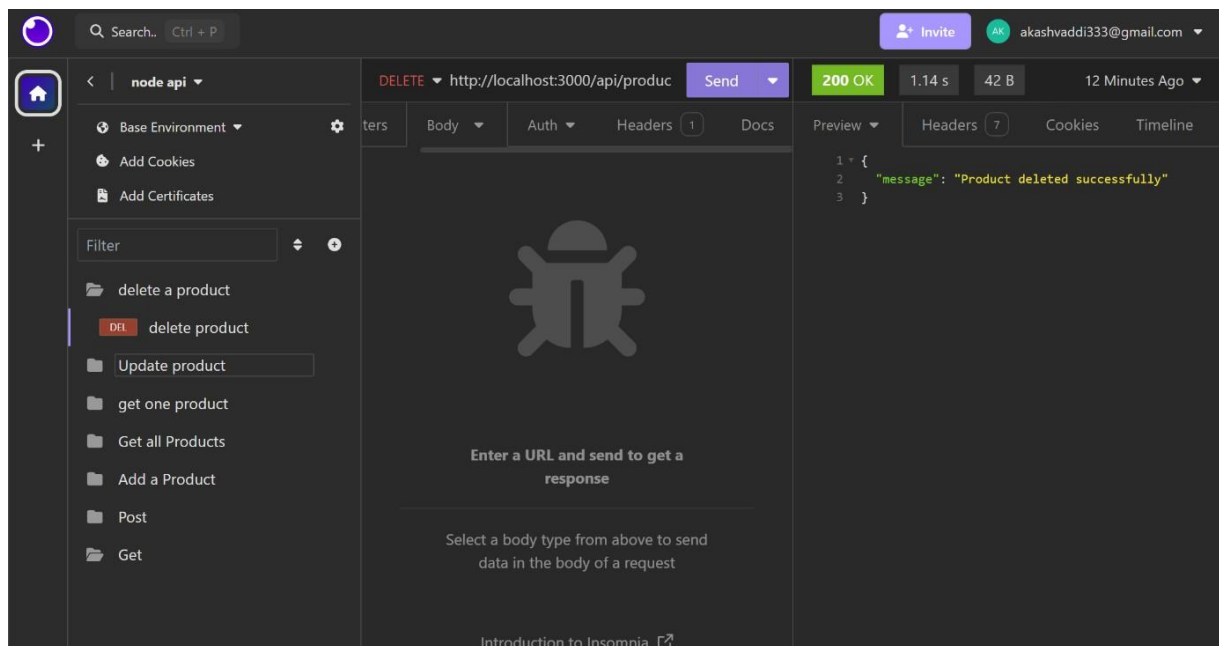
Readone Api:



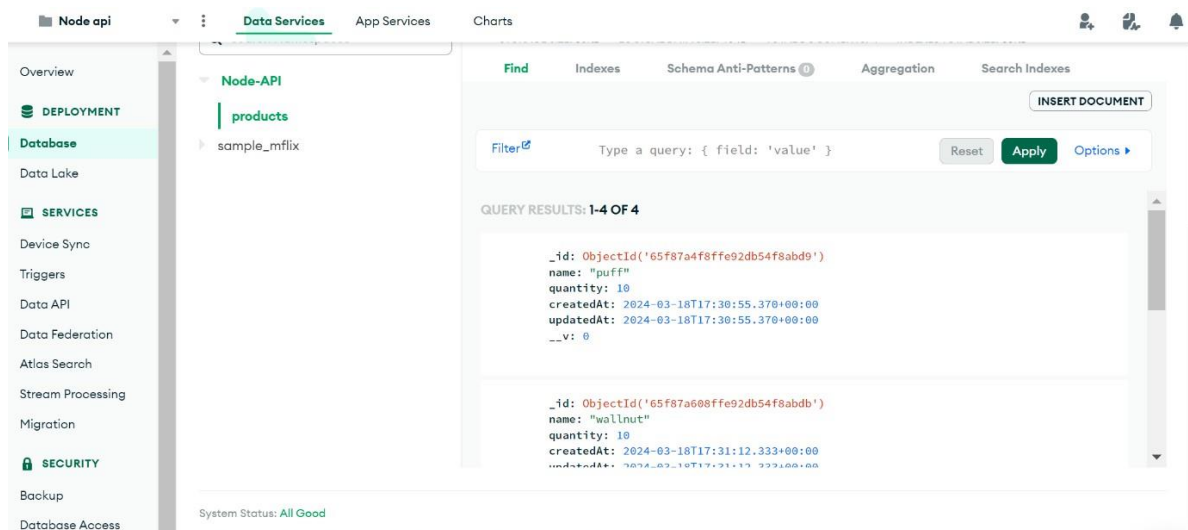
Update Api:



Delete Api:



MongoDB: (final view)



AKAQPI:

