ASSIGNMENT-3

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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 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 });
           }
        });


        //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.hp9gamr.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

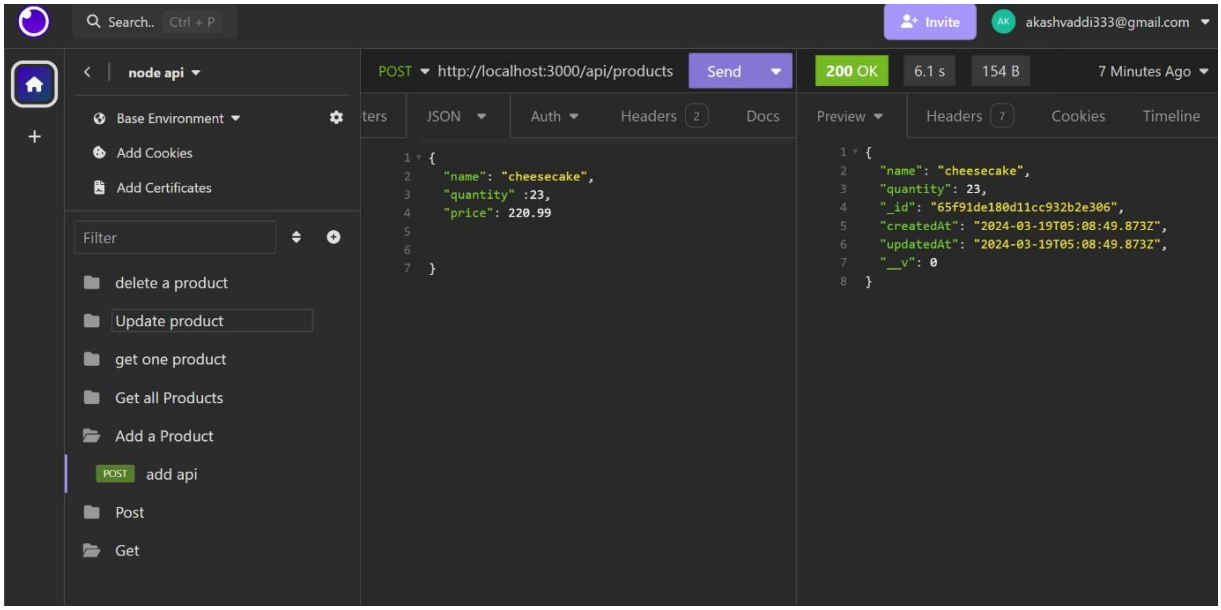
```
{
  "name": "aka-qpi",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "serve": "node index.js",
    "dev": "nodemon index.js"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies":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

Product.model.js

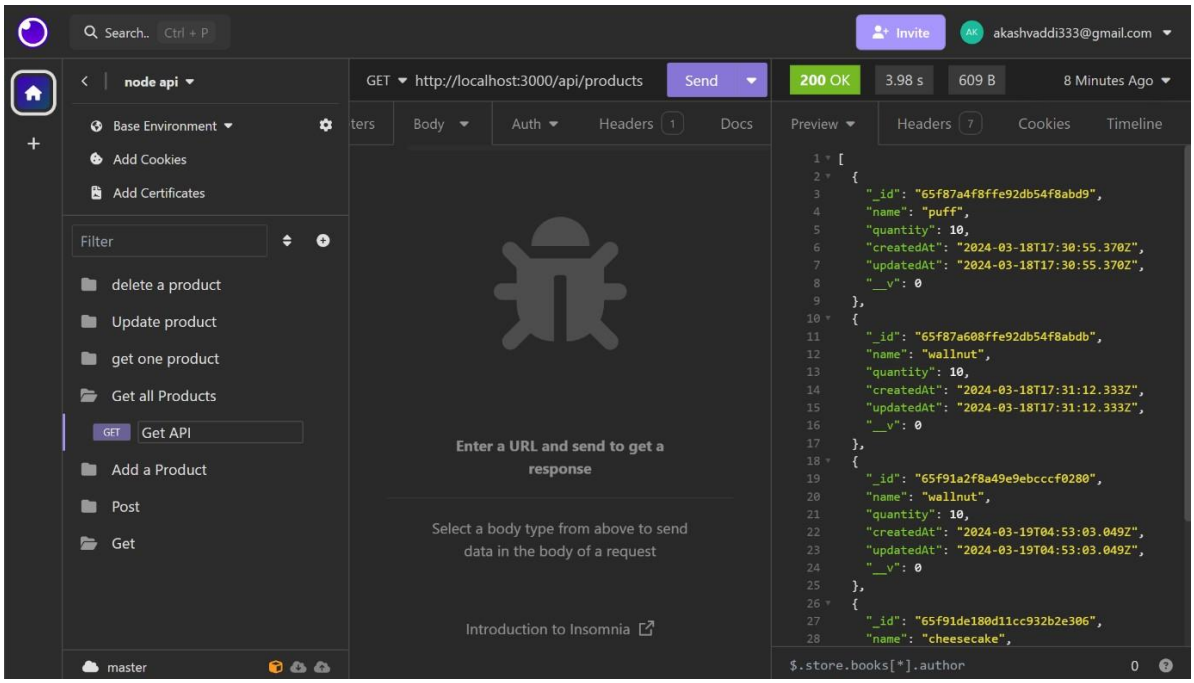
```
const mongoose = require ('mongoose');


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***

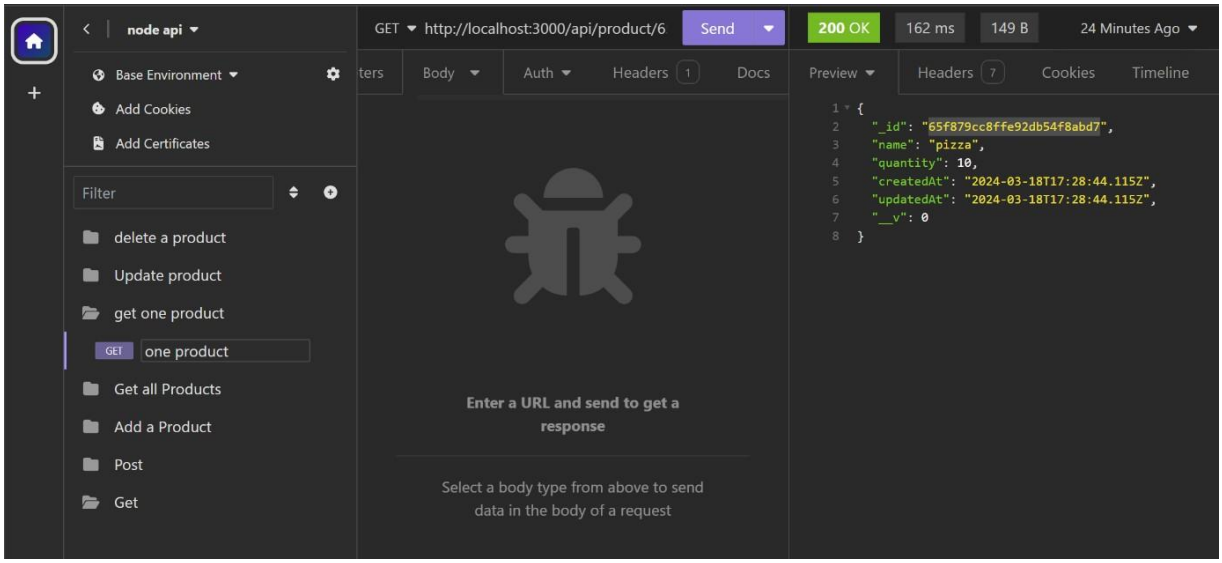
Create api:



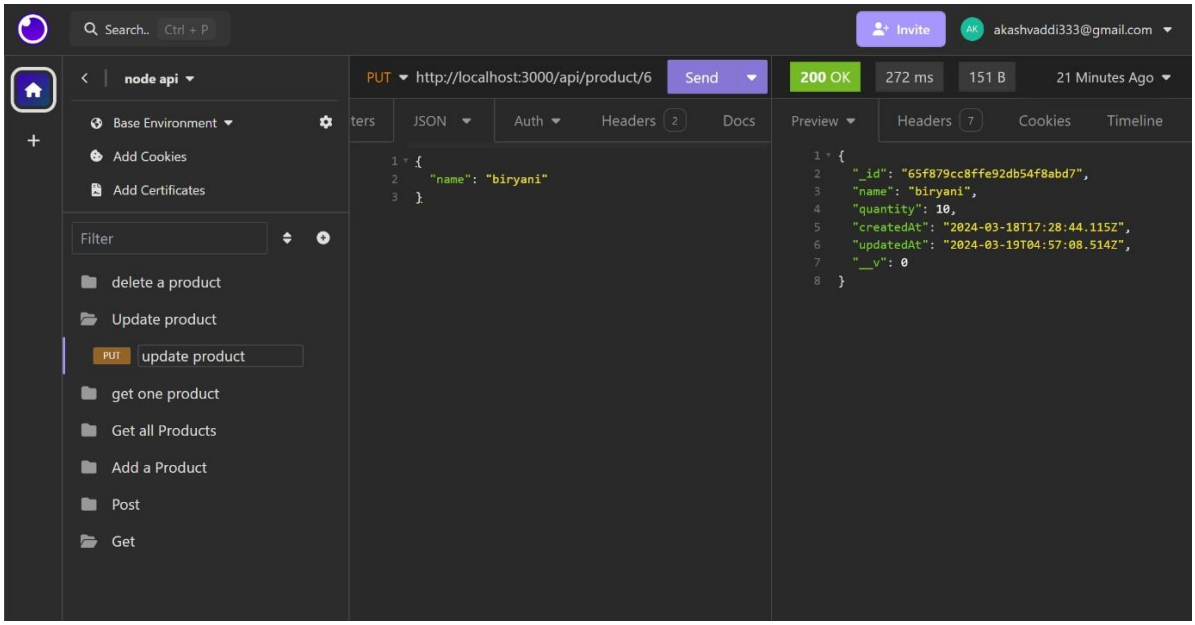
Read Api:



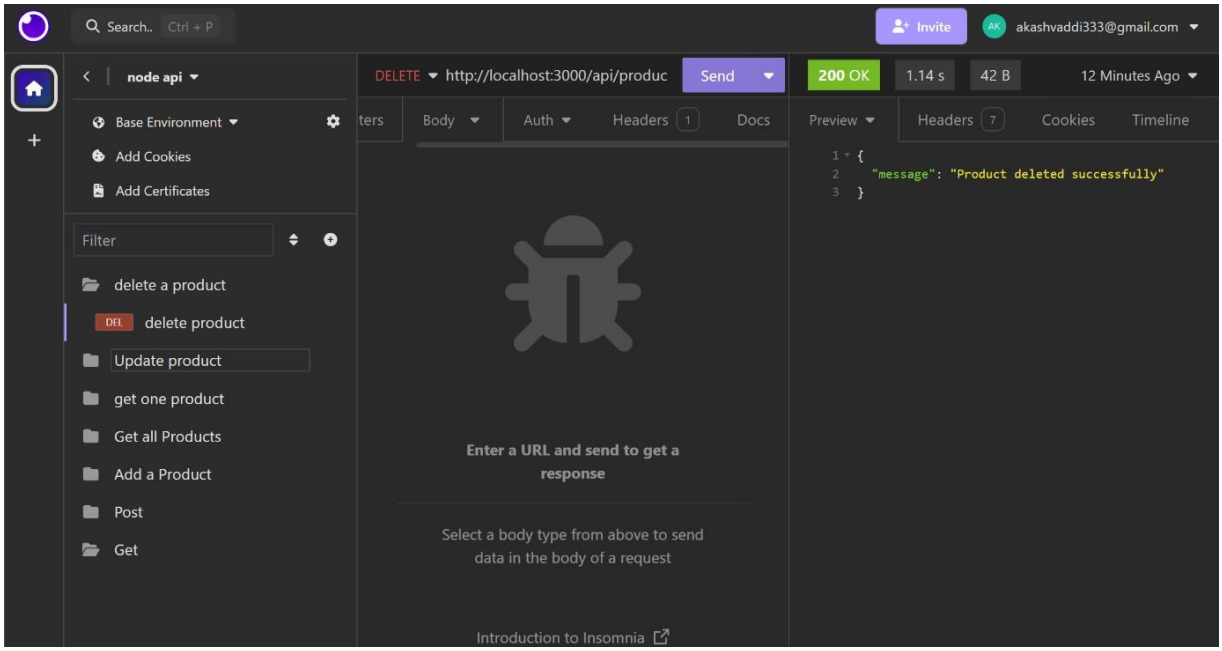
Read one Api:



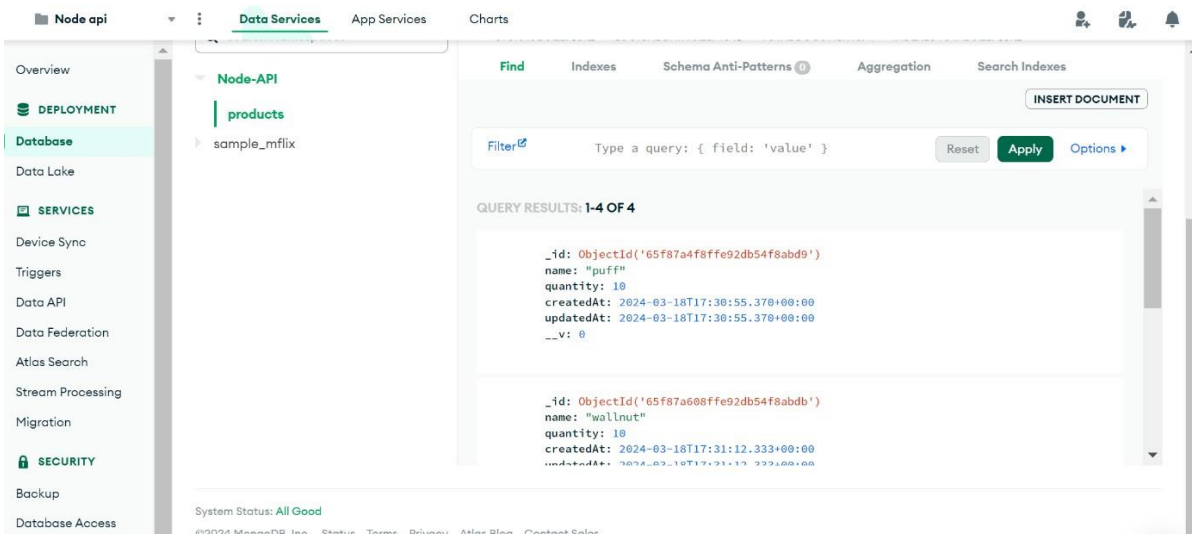
Update Api:



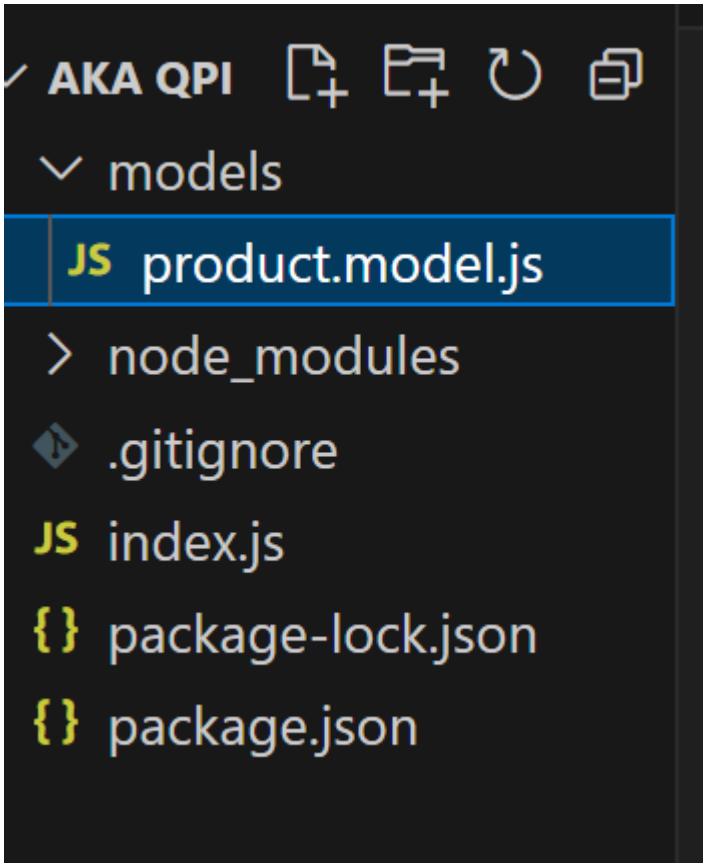
Delete Api:



MongoDB : (final view)



AKA QPI:


AKA QPI
models
product.model.js
node_modules
.gitignore
index.js
package-lock.json
package.json