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 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.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

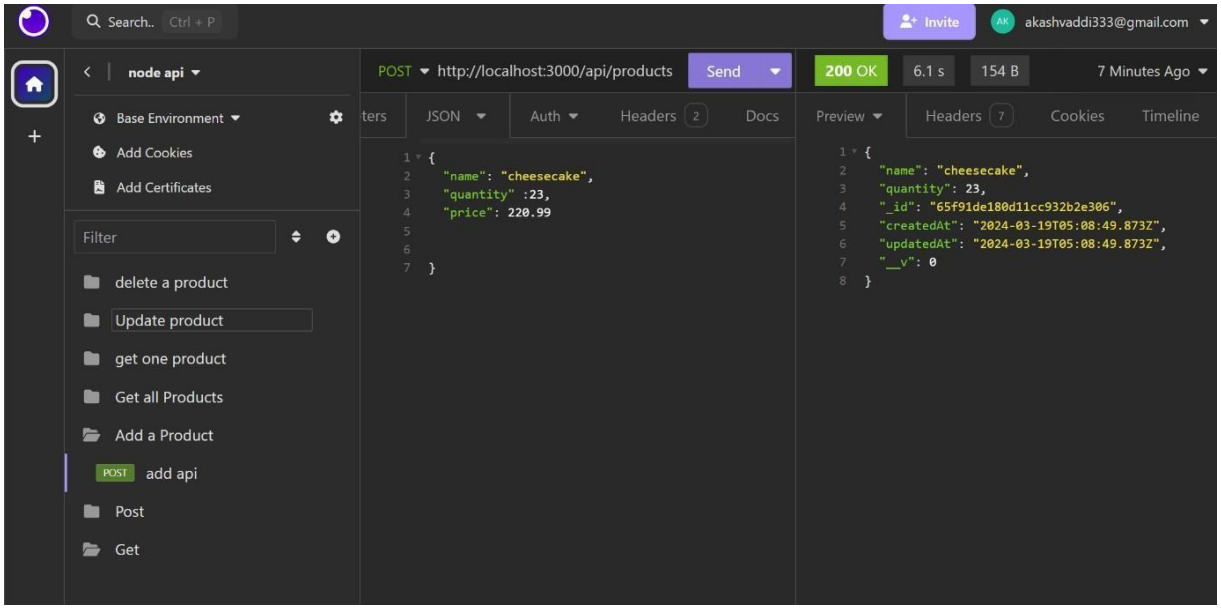
```
{
  "name": "aka-qpi",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "serve": "node index.js",
    "dev": "nodemon index.js"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies":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

Product.model.js

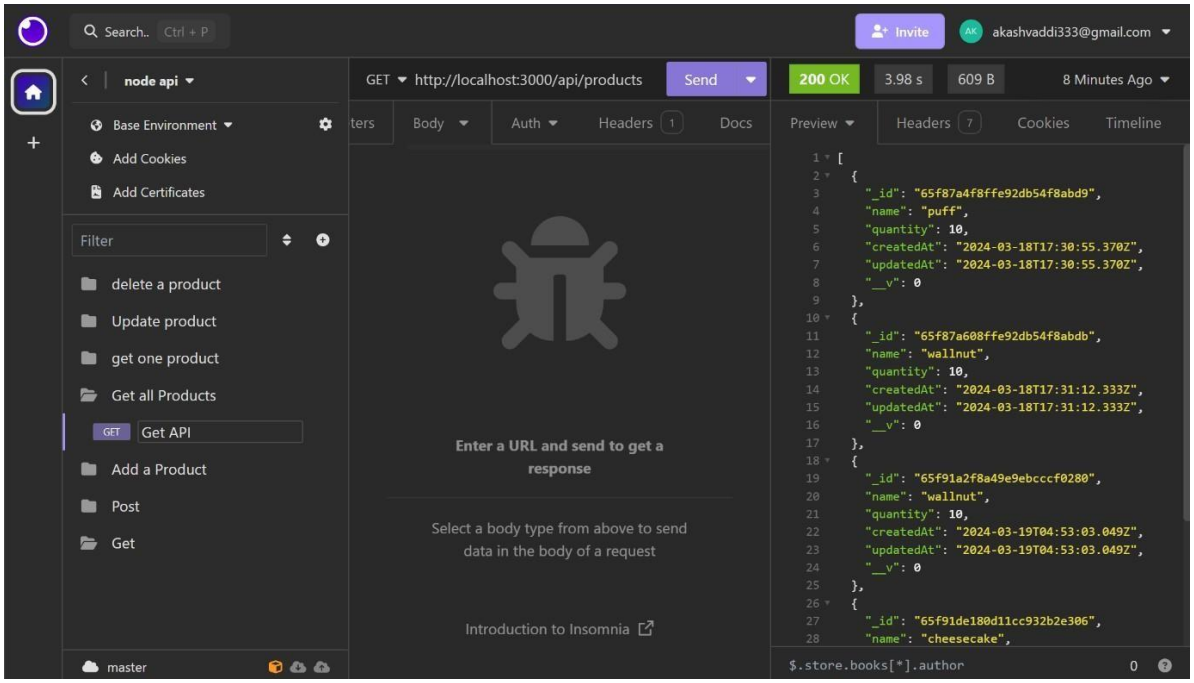
```
const mongoose = require ('mongoose');

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*

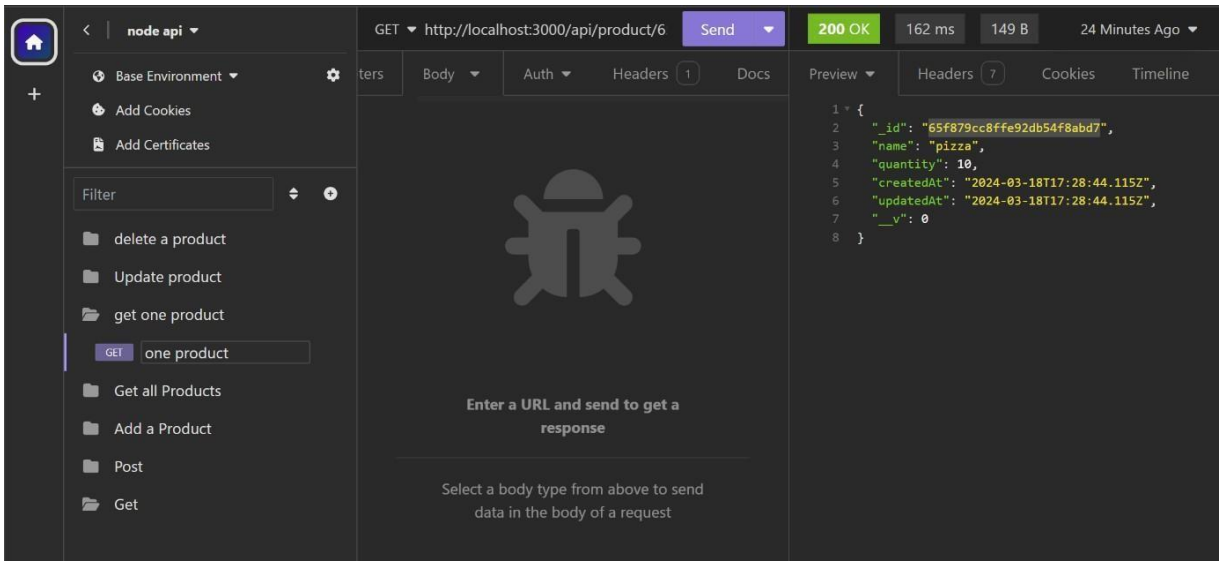
Create api:



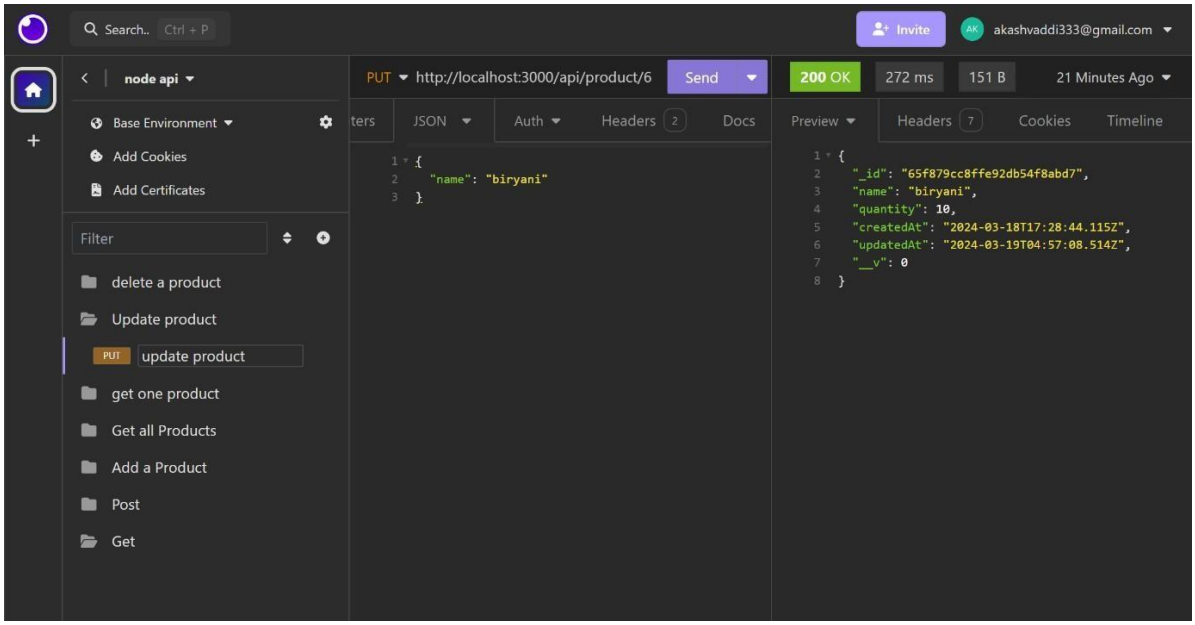
Read Api:



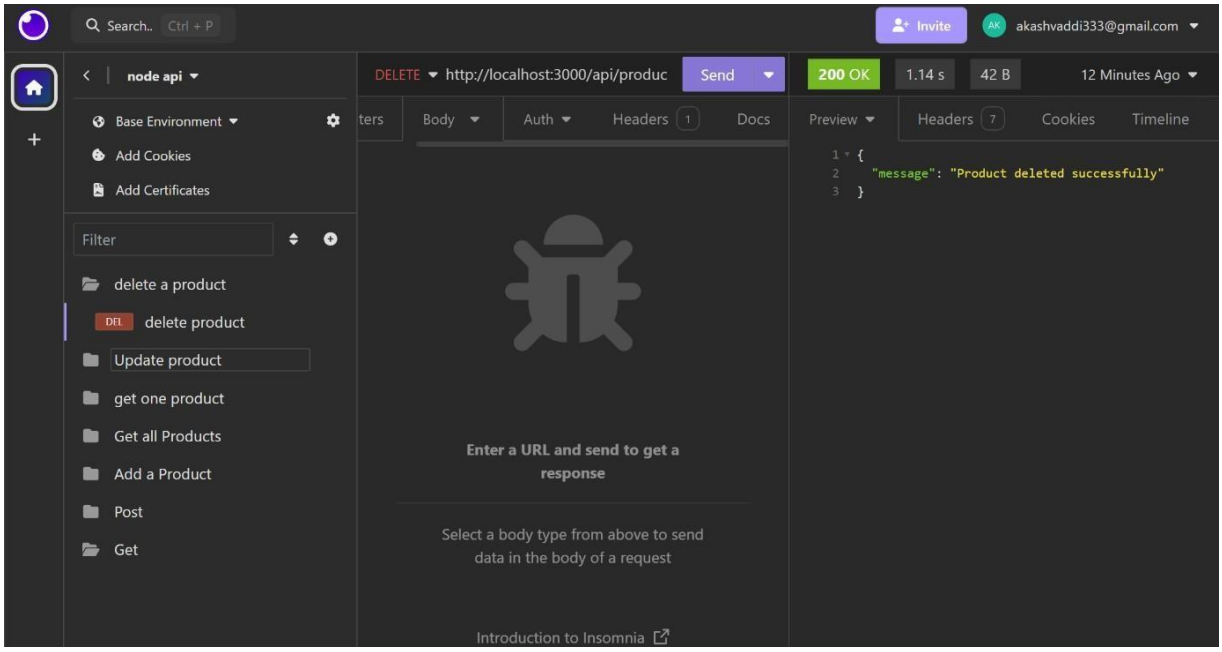
Read one Api:



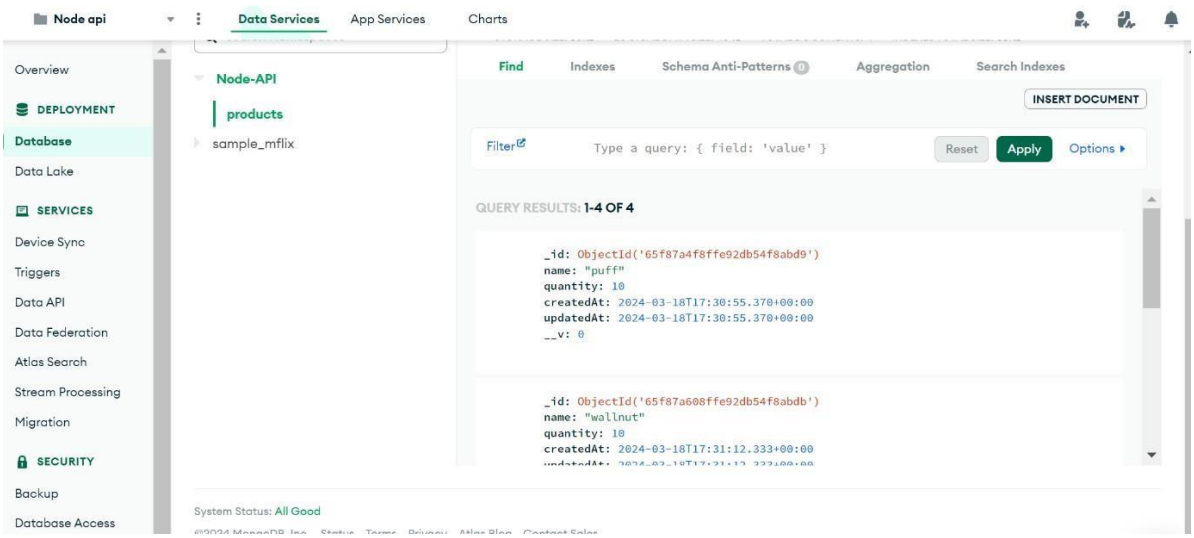
Update Api:



Delete Api:



MongoDB : (final view)



AKA QPI: