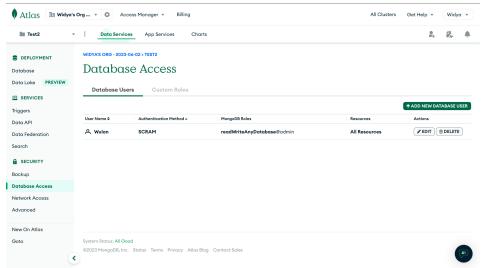
# Laporan Praktikum Teknologi Web Lanjut Pengenalan Node.js, Express dan MongoDB

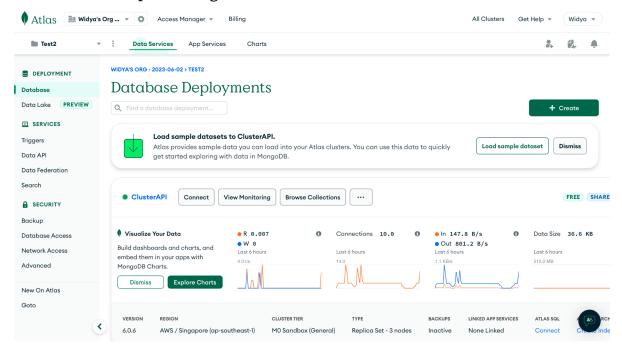
## Praktikum pertemuan 6

1. Menyiapkan lingkungan pengembangan Node.js dan express dengan cara Menginstall node.js, Express, Mongoose, nodemon.

2. Membuat new project dengan nama "Test2" dan membuat database user di dalam MongoDB.



## 3. Membuat cluster pada mongoDB



4. Mengkoneksikan MongoDB dengan Node.js

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5. Membuat Schema MongoDB

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                          models > Js productmodels.js > ...
                          1 const mongoose = require('mongoose')
     ∨ PERCOBAAN3
                           4 const productSchema = mongoose.Schema(
     name: {
                                          require: [true, "Please enter a product name"]
     {} package-lock.j... U
     {} package.json U
                                     quantity:{
                                       type: Number,
      JS server.js U
                                          require: true,
                                          default: 0
                                       price: {
                                          require: true,
                                       image:{
                                          require: true,
                                       timestamps: true
                                const Product = mongoose.model('Product', productSchema);
```

- 6. Mengimplementasikan operasi CRUD (Create, Read, Update, Delete) untuk sumber daya sederhana.
  - -Membuat dan menyimpan data

```
JS server.js U X
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                         Js server.js > 🗇 app.post('/products') callback
                               //save data with methode "post"
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 ∨ models
  JS productmodel... U
                             app.post('/products', async(req,res) => {
 > node_modules

> .gitignore U 85
86
                                   const product = await Product.create(req.body)
                                      res.status(200).json(product);
 {} package-lock.j... U
 {} package.json U
                                   }catch (error){
                                      console.log(error.message);
                                       res.status(500).json({message: error.message})
                         91
                                   }
```

#### -Fetch seluruh data

```
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                               Js server.js > 😭 app.post('/products') callback
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                                      app.get('/products', async(req,res) =>{

✓ models

        JS productmodel... U
                                              const products = await Product.find({});
       > node_modules
                                              res.status(200).json(products);
                                          } catch (error){
       .gitignore
                                              res.status(500).json({message: error.message})
       {} package-lock.j... U
       {} package.json
```

#### -Fetch data berdasarkan "ID"

```
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                               Js server.js > 🗇 app.post('/products') callback
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                                     app.get('/products/:id', async(req,res) =>{

∨ models

                                             const {id} = req.params;
        JS productmodel... U
                                              const product = await Product.findById(id);
       > node_modules
                                              res.status(200).json(product);
       gitignore
                                          } catch (error){
       {} package-lock.j... U
                                              res.status(500).json({message: error.message})
œ
      {} package.json U
```

### -Update or edit data

```
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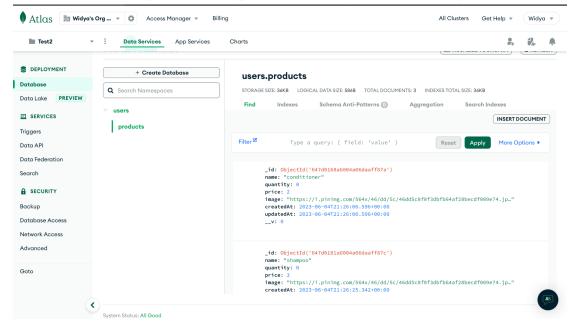
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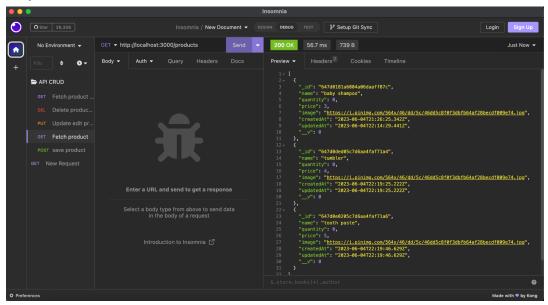
Try{
```

Remove or Delete data

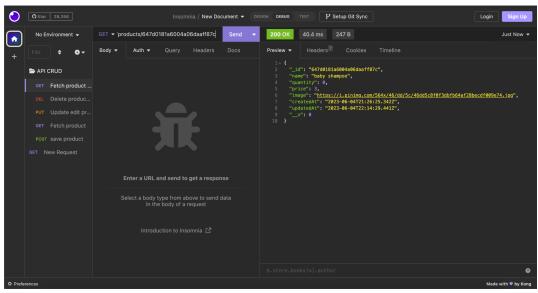
7. Tampilan data yang ada di MongoDB



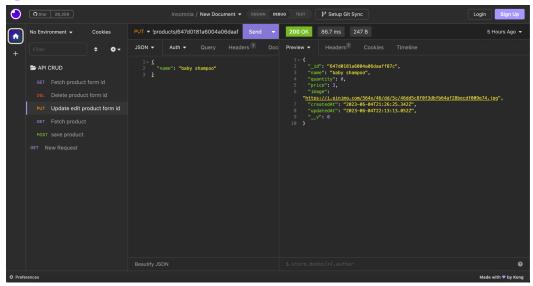
- 8. Pengujian dan debugging API menggunakan Insomnia, dengan url (http://localhost:3000/products)
- Get/fetch data:



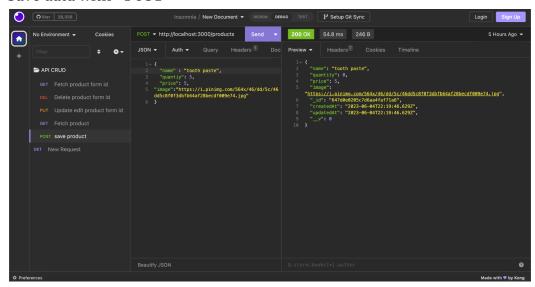
- Get/fetch data from 'id'



- Update or Edit data from 'id' with "PUT"



- Save data with "POST"



- Delete data from 'id' with "DELETE"

