NIMBUS (MERN PROJECT)

Steps you follow:

Step-1	cd client
Step-2	npm i
Step-3	npm run dev
Step-4	cd
Step-5	npm i
Step-6	npm run dev

Simple Browser: https://kosurg-5173.ocws.app

Add-TODOS NAMES

- HET
- DHRUV
- RAJ
- DEEP

Simple Browser: https://kosurg-5173.ocws.app/api/todos

```
E Simple Browser ↓ ...

← → ひ https://kosurg-5173.ocws.app/api/todos

Pretty-print □

[{"_id":"6763d87a6d8787ea4113c0b7","action":"HET"},
{"_id":"6763d8856d8787ea4113c0bd","action":"DHRUV"},
{"_id":"6763d88d6d8787ea4113c0c0","action":"DEEP"},
{"_id":"6763d8936d8787ea4113c0c3","action":"RAJ"}]
```

Thunder Clients:

New Request -

```
GET V https://kosurg-5173.ocws.app/api/todos Send
```

Output:

```
GET v https://kosurg-5173.ocws.app/api/todos
                                                           Send
Status: 200 OK Size: 204 Bytes Time: 1.00 s
                                                     Response v
    [
      {
    "_id": "6763d87a6d8787ea4113c0b7",
 2
       "action": "HET"
      },
 5
 6
 7
        "_id": "6763d8856d8787ea4113c0bd",
       "action": "DHRUV"
 8
9
      },
10
       "_id": "6763d88d6d8787ea4113c0c0",
11
       "action": "DEEP"
12
13
14
       "_id": "6763d8936d8787ea4113c0c3",
15
       "action": "RAJ"
16
17
18
    ]
```

CRUD OPERATION IN NIMBUS

CRUD – PROGRAMS (index.js file)

```
const express = require('express');
const bodyParser = require('body-parser');
const mongoose = require('mongoose');
const routes = require('./routes/userroutes.js');
require('dotenv').config();
const app = express();
const port = process.env.PORT || 5000;
// Connect to the database
mongoose
  .connect(process.env.MONGO_DB_URI, { useNewUrlParser: true })
  .then(() => console.log(`Database connected successfully`))
  .catch((err) => console.log(err));
// Since mongoose's Promise is deprecated, we override it with Node's Promise
mongoose.Promise = global.Promise;
app.use((req, res, next) => {
  res.header('Access-Control-Allow-Origin', '*');
  res.header('Access-Control-Allow-Headers', 'Origin, X-Requested-With, Content-Type, Accept');
 next();
});
```

```
app.use(bodyParser.json());

app.use('/api', routes);

app.use((err, req, res, next) => {
   console.log(err);
   next();
});

app.listen(port, () => {
   console.log(`Server running on port ${port}`);
});
```

(usercontrollers.js file)

```
const User = require("../models/usermodels.js");
const createUser= async (req,res)=>{
 try{
    const userData = new User(req.body);
    if(!userData)
     res.status(404).json({msg:"user not found"});
    }
    await userData.save();
    res.status(200).json({msg:"user got created successfully"})
 }
 catch(error)
 {
    res.status(500).json({err:error})
 }
}
 const getAll = async(req,res)=>{
 try{const userData= await User.find();
    if(!userData){
    res.status(404).json({message:"User not found."});
    }
    res.status(200).json(userData);
```

```
catch(error){
  res.status(500).json({err:error});
 }
}
const findUserById = async(req,res)=>{
  try{
    const userid= req.params.id;
   const userData= await User.findByld(userid);
   if(!userData){
    res.status(404).json({message:"User not found."});
    res.status(200).json(userData);
  }
   catch(error){
    res.status(500).json({err:error});
  }
}
 const Updateuser= async(req,res)=>{
  try{
     const userid= req.params.id;
```

```
const userData= await User.findById(userid);
  if(!userData){
   res.status(404).json({message:"User not found."});
   }
   const updatedata= await User.findByIdAndUpdate(userid,req.body,{new:true});
   res.status(200).json({msg:"User Updated successfully"});
  }
  catch(error){
   res.status(500).json({err:error});
  }
}
const DeleteUser = async(req,res)=>{
try{
   const userid= req.params.id;
  const userData= await User.findByld(userid);
  if(!userData){
   res.status(404).json({message:"User not found."});
  }
   const deleteData = await User.findByIdAndDelete(userid);
   res.status(200).json({msg:"User Deleted Successfully"});
 }
  catch(error){
   res.status(500).json({err:error});
```

}

```
module.exports={
    DeleteUser,
    createUser,
    getAll,
    findUserById,
    Updateuser
};
```

(usermodels.js file)

```
const mongoose =require('mongoose');
const userschemas = new mongoose. Schema(
   name:{
     type:String,
     required:true
   },
   email:{
     type:String,
     required:true
   },
   password:{
     type:String,
     required:true
   },
   age:{
     type:Number,
     required:true
   }
 },
   timestamps:true
 }
const User=mongoose.model('User',userschemas);
module.exports=User;
```

(userroutes.js file)

```
const {createUser,getAll,findUserById,Updateuser,DeleteUser} =
require("../controllers/usercontrollers.js");
const express=require("express");

const route= express.Router();
route.post('/create',createUser)
route.get('/getall',getAll)
route.get("/finduser/:id",findUserById)
route.put("/update/:id",Updateuser)
route.delete('/delete/:id',DeleteUser)
module.exports= route;
```

Thunder Clients (CREATE METHOD OUTPUT)

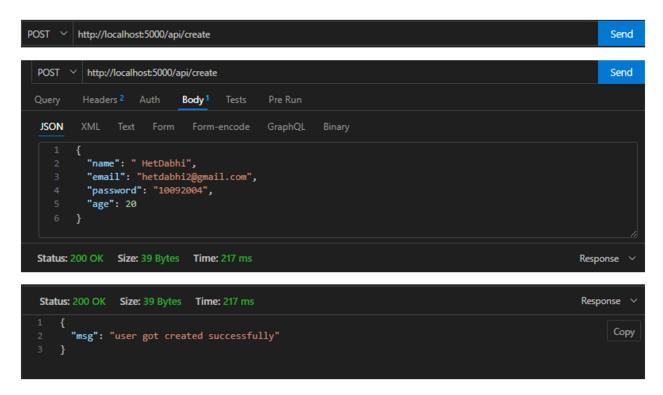
STEP: 1 OPEN THUNDER CLIENT

STEP:2 **NEW REQUEST**

STEP:3 SET ON (POST)

STEP:4 http://localhost:5000/api/create

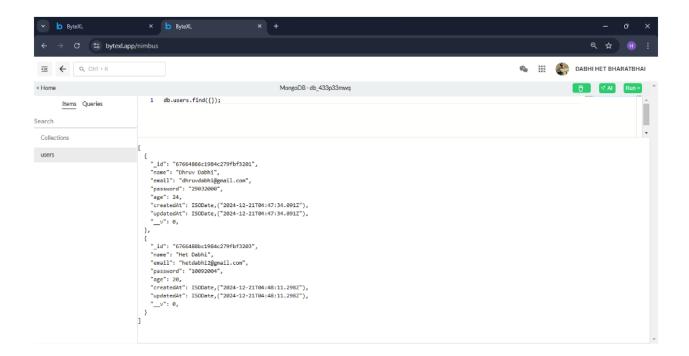
STEP:5 SEND



Output:

```
o root@f553e810bfc5:~/my-project# node index.js
  (node:834) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option:
  e next major version
  (Use `node --trace-warnings ...` to show where the warning was created)
  Server running on port 5000
  Database connected successfully
```

MongoDB (CREATE METHOD OUTPUT)



Thunder Clients (GETALL DATA METHOD OUTPUT)

STEP:1 OPEN THUNDER CLIENT

STEP:2 **NEW REQUEST**

STEP:3 SET ON (GET)

STEP:4 http://localhost:5000/api/getall

```
GET Y http://localhost:5000/api/getall
                                                                                                           Send
GET Y http://localhost:5000/api/getall
                                                                                                           Send
Status: 200 OK Size: 406 Bytes Time: 904 ms
                                                                                                     Response >
         "_id": "67664866c1984c279fbf3201",
         "name": "Dhruv Dabhi",
         "email": "dhruvdabhi@gmail.com",
         "password": "29032000",
         "age": 24,
         "createdAt": "2024-12-21T04:47:34.091Z",
         "updatedAt": "2024-12-21T04:47:34.091Z",
         "__v": 0
         " id": "6766488bc1984c279fbf3203",
         "name": "Het Dabhi",
         "email": "hetdabhi2@gmail.com",
         "password": "10092004",
         "age": 20,
         "createdAt": "2024-12-21T04:48:11.298Z",
         "updatedAt": "2024-12-21T04:48:11.298Z",
```

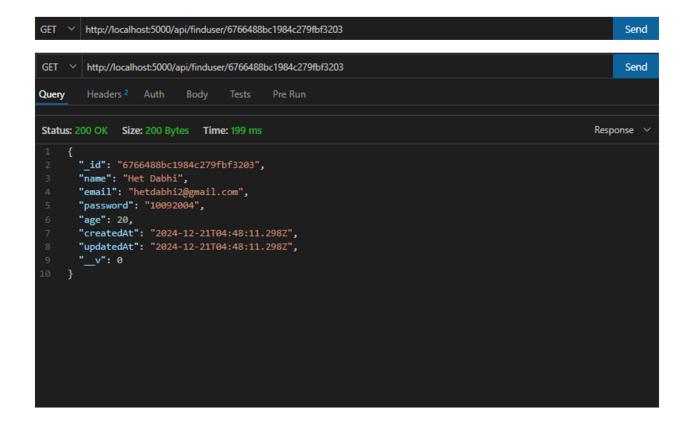
Thunder Clients (FINDUSER DATA METHOD OUTPUT)

STEP:1 OPEN THUNDER CLIENT

STEP:2 **NEW REQUEST**

STEP:3 SET ON (GET)

STEP:4 http://localhost:5000/api/finduser/6766488bc1984c279fbf3203



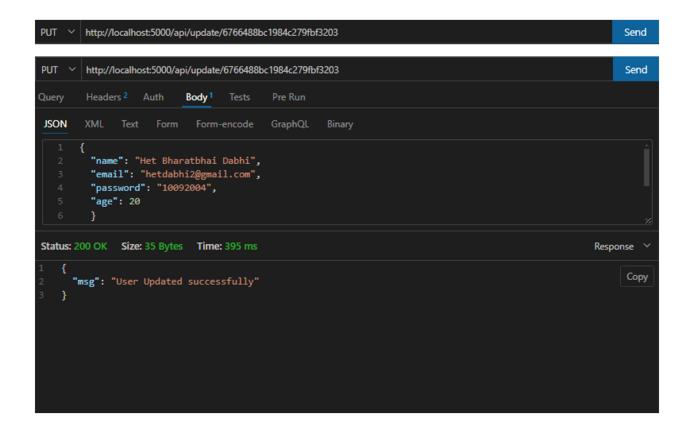
Thunder Clients (UPDATE DATA METHOD OUTPUT)

STEP:1 OPEN THUNDER CLIENT

STEP:2 NEW REQUEST

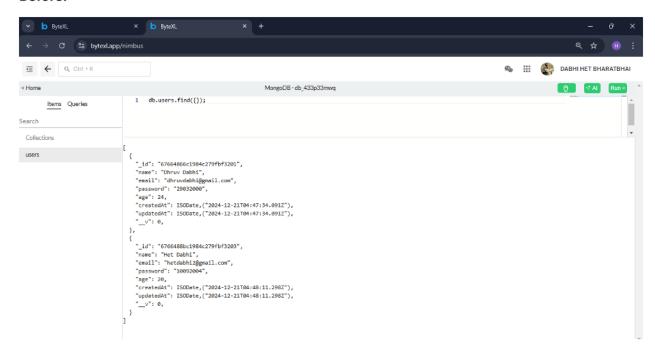
STEP:3 SET ON (PUT)

STEP:4 http://localhost:5000/api/update/6766488bc1984c279fbf3203



MONGODB

Before:



After:

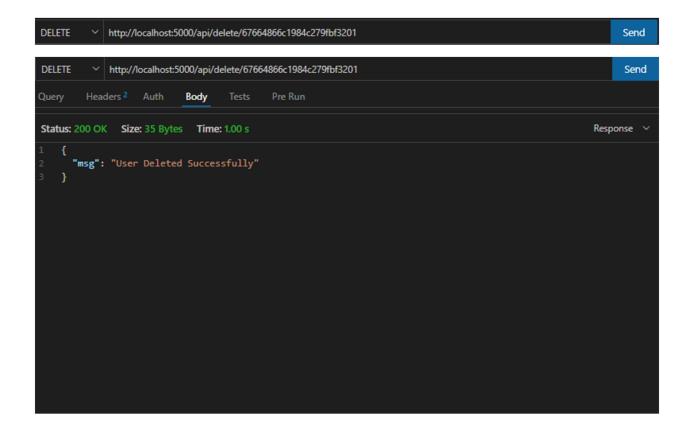
Thunder Clients (**DELETE DATA METHOD OUTPUT**)

STEP:1 OPEN THUNDER CLIENT

STEP:2 **NEW REQUEST**

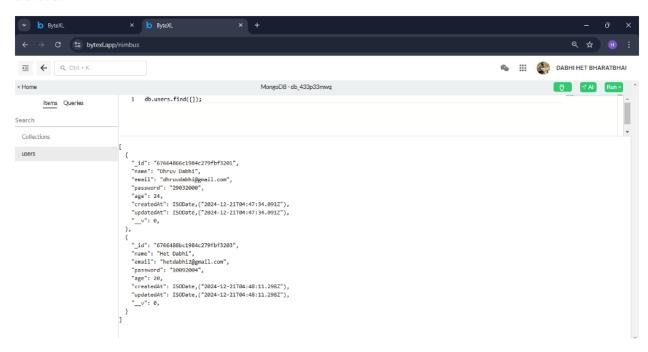
STEP:3 SET ON (DELETE)

STEP:4 http://localhost:5000/api/delete/67664866c1984c279fbf3201



MONGODB

Before:



After:

