# https://blog.avneesh.tech/building-a-crud-api-with-nodejs-and-mongodb

# Setting Up NodeJS App

1. mkdir crud-API
2. cd crud-API
3. npm init -y
4. npm install mongoose express dotenv cors
5. npm install -D nodemon
6. index.js  
   const express = require("express");

const PORT = 8000;  
const app = express();  
app.listen(PORT, async () => {  
 console.log(`server up on port ${PORT}`);

});

1. package.json  
   "start": "nodemon index.js"
2. npm run start
3. router.js  
   const router = require("express").Router();

router.get("/", (req, res) => {

res.send("Let's build a CRUD API!");

});

module.exports = router;

1. index.js  
   app.use(router);  
   const router = require("./router");
2. <http://localhost:8000/>

# Connect to Mongo

1. Create Project
2. Create User  
   moibrahem  
   BYfnaioFyVDDMsxQ
3. Connect to Database
4. Copy connection string in .env
5. Index.js  
   const mongoose = require("mongoose");  
   const dotenv = require("dotenv");

dotenv.config();

mongoose

.connect(process.env.MONGODB\_URL, {

useNewUrlParser: true,

useUnifiedTopology: true,

})

.then(() => {

console.log("Connected to MongoDB");

})

.catch((err) => {

console.log(err);

});

# Create Model for Mongo

1. Create Model

const mongoose = require("mongoose");

const UserSchema = new mongoose.Schema({

first\_name: {

type: String,

required: true,

},

last\_name: {

type: String,

required: true,

},

user\_name: {

type: String,

required: true,

},

email: {

type: String,

},

password: {

type: String,

required: true,

},

createdAt: {

type: Date,

default: Date.now,

},

});

module.exports = mongoose.model("User", UserSchema);

1. Create Controller

const getUsers = (req, res) => {

res.send("I am the get users route");

};

module.exports = {

getUsers,

};

* 1. Router.js

const {getUsers}= require("./Controllers/User");

router.get("/users", getUsers);

1. <http://localhost:8000/users>

# Build Create API

1. Add post to router  
   router.post("/users", createUser);
2. Adjust import

const {getUsers,createUser}= require("./Controllers/User");

1. Add Api to controller

const createUser = async (req, res) => {

const user = new User({

first\_name: req.body.first\_name,

last\_name: req.body.last\_name,

user\_name: req.body.user\_name,

email: req.body.email,

password: req.body.password,

createdAt: req.body.createdAt,

});

try {

const savedUser = await user.save();

res.json(savedUser);

} catch (err) {

res.send(err);

}

};

1. Export function

module.exports = {

getUsers,

createUser,

};

1. Add cors to index.js  
   const cors = require("cors");  
   app.use(cors());

app.use(express.json());

app.use(express.urlencoded({ extended: false }));

1. Open Postman

{

"first\_name": "Moamen",

"last\_name": "Zaher",

"user\_name": "moamen\_zaher",

"email": "moamen.zaher@icloud.com",

"password": "1234567"

}

# Create Read All

const getUsers = (req, res) => {

User.find()

.then(users => res.json(users))

.catch(err => res.send(err));

};

# Edit User

1. Add to Router.js