How to create schema in node js "mongoose"

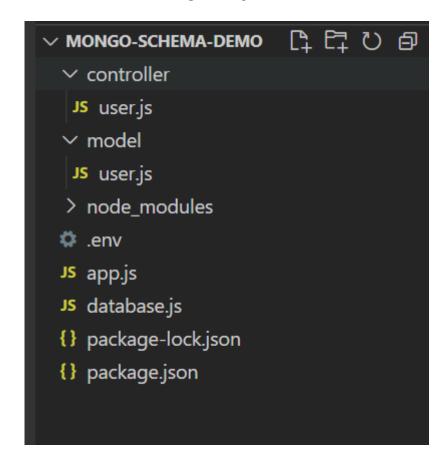
Create Project

C:\Windows\System32\cmd.exe D:\reactshrenik\Ex8-Express-Js\#7-Express-MongoDb-Create-Schema>mkdir mongo-schema-demo D:\reactshrenik\Ex8-Express-Js\#7-Express-MongoDb-Create-Schema>cd mongo-schema-demo D:\reactshrenik\Ex8-Express-Js\#7-Express-MongoDb-Create-Schema\mongo-schema-demo>npm init --yes Wrote to D:\reactshrenik\Ex8-Express-Js\#7-Express-MongoDb-Create-Schema\mongo-schema-demo\package.json: "name": "mongo-schema-demo", "version": "1.0.0", "description": "", "main": "index.js", "scripts": { "test": "echo \"Error: no test specified\" && exit 1" "keywords": [], "author": "", "license": "ISC" D:\reactshrenik\Ex8-Express-Js\#7-Express-MongoDb-Create-Schema\mongo-schema-demo>

Install Express Js

```
C:\Windows\System32\cmd.exe
D:\reactshrenik\Ex8-Express-Js\#7-Express-MongoDb-Create-Schema\mongo-schema-demo>npm i --save express
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN mongo-schema-demo@1.0.0 No description
npm WARN mongo-schema-demo@1.0.0 No repository field.
 express@4.17.1
added 50 packages from 37 contributors and audited 50 packages in 4.212s
found 0 vulnerabilities
D:\reactshrenik\Ex8-Express-Js\#7-Express-MongoDb-Create-Schema\mongo-schema-demo>_
```

Create following Project Structure



Install mongoose, dotenv modules

npm i --save mongoose dotenv

Connect Database using mongoose

```
.env X

.env
1    PORT=3002
2    DB_URL=mongodb://localhost:27017/mongooseTest
```

```
JS database.js •
JS database.js > [∅] connectMongoDb > ♦ <function>
       const mongoose = require('mongoose');
       const db url = process.env.DB URL;
       console.log(mongoose.connection.readyState);
       let connectMongoDb = () => {
           return new Promise((resolve, reject)=>{
                   mongoose.connect(db url, {useNewUrlParser:true,useUnifiedTopology: true});
                   mongoose.connection
 11
                       .once("open", () => {
 12
                           console.log("Connected");
                           const conn status = mongoose.connection.readyState;
                           resolve(conn status);
 15
                       .on("error", (error) => {
 17
                           console.log("Error :" + error);
                           reject("Mongo Db Connection Failed");
                       });
 20
           });
 21
       module.exports.connectMongoDb = connectMongoDb;
```

Create user model

```
JS user.js
            ×
model > JS user.js > ...
       const mongoose = require("mongoose");
       const userSchema = mongoose.Schema({
           username:{
               type:String,
               required:true
           },
           email:{
               type:String,
               required:true,
 11
               unique:true
 12
           },
           password:{
 13
               type:String,
               required:true
           },
           isActive:{
 17
               type:Boolean,
               default:false
           },
 21
           createdOn:{
               type:Date,
               default:Date.now()
       });
       mongoose.model("users", userSchema);
       module.exports = mongoose.model("users");
 29
```

Create user controller to handle api request and perform insert/update/delete/read operations

```
JS user.js X

controller > JS user.js > ...

1    const router = require("express").Router();
2    const user = require("../model/user");

3    router.all("/", (request, response)=>{
5         response.setHeader('Content-Type', 'application/json');
6         response.end(JSON.stringify({"status":"User Controller Working.."},null,3));
7    });
8    a
9    module.exports = router;
```

Import "controller" (line 4) and Define middleware function to connect database

```
×
JS app.js
JS app.js > [∅] middleware
       const express = require("express");
       require("dotenv").config();
       const database = require("./database");
       const userController = require("./controller/user");
       const app=express();
       const port=process.env.PORT;
       let middleware = (request, response, next)=>{
           database.connectMongoDb().then((arg)=>{
               console.log('Connection Status : ' + arg);
 11
           }).catch((error)=>{
 12
               console.log(error);
 13
           });
 14
 15
           next();
 17
 18
       app.use(middleware);
 19
       app.use("/api/user",userController);
 20
```

Run Project and check following two urls

Note:

After Insert Document new schema and collection get create in mongodb database.

After insert document, open robo 3t or compass to check record