eComm_class_live

1.configs/server.config.js

```
/**
 * This file will contain the server configurations
 */
module.exports = {
    PORT : 8888
}
```

2.configs/db.config.js

```
module.exports = {
    DB_NAME : "ecomm_db",
    DB_URL : "mongodb://localhost/ecomm_db"  //0.0.0.0
}
```

3.configs/auth.config.js

```
module.exports = {
    secret : "This is my super private secret"
}
```

MODELS

1.models/user.model.js

```
const mongoose = require("mongoose")
const userSchema = new mongoose.Schema({
    name : {
        type : String,
        required : true
    },
    userId : {
        type : String,
```

```
        required : true,
        unique : true
    },
    password : {
        type : String,
        required : true
    },
    email : {
        type : String,
        required : true,
        lowercase : true,
        minLength : 10,
        unique : true
    },
    userType : {
        type : String,
        default : "CUSTOMER",
        enum : ["CUSTOMER", "ADMIN"]
    }

},{timestamps : true,versionKey:false})

module.exports = mongoose.model("User", userSchema)
```

2. models/category.model.js

```
const mongoose = require("mongoose");
const categorySchema = new mongoose.Schema({
    name : {
        type : String,
```

```
        required : true,
        unique : true
    },
    description : {
        type : String,
        required : true
    }
},{timestamps : true , versionKey : false})

module.exports = mongoose.model("Category", categorySchema)
```

CONTROLLERS

1.controllers/auth.controller.js

```
/**
 * I need to write the controller / logic to register a user
 */
const bcrypt = require("bcryptjs")
const user_model = require("../models/user.model")
const jwt = require("jsonwebtoken")
const secret = require("../configs/auth.config")
const userModel = require("../models/user.model")
exports.signup = async (req, res)=>{
    /**
     * Logic to create the user
     */

    //1. Read the request body
    const request_body = req.body

    //2. Insert the data in the Users collection in MongoDB
```

```
const userObj = {
    name : request_body.name,
    userId : request_body.userId,
    email : request_body.email,
    userType : request_body.userType,
    password : bcrypt.hashSync(request_body.password,8)
}

try{

    const user_created = await user_model.create(userObj)
    /**
     * Return this user
     */

    const res_obj = {
        name : user_created.name,
        userId : user_created.userId,
        email : user_created.email,
        userType : user_created.userType,
        createdAt : user_created.createdAt,
        updatedAt : user_created.updateAt
    }
    res.status(201).send(res_obj)

}catch(err){
    console.log("Error while registering the user", err)
    res.status(500).send({
        message : "Some error happened while registering the user"
```

```
        })
    }
    //3. Return the response back to the user
}

exports.signin = async (req, res)=>{

   //Check if the user id is present in the system
   const user = await user_model.findOne({userId : req.body.userId})
   if(user == null){
    return res.status(400).send({
        message : "User id passed is not a valid user id"
    })
   }
   //Password is correct
   const isPasswordValid = bcrypt.compareSync(req.body.password, user.password)
   if(!isPasswordValid){
    return res.status(401).send({
        message : 'Wrong password passed'
    })
   }
   // using jwt we will create the acces token with a given TTL and return
   const token = jwt.sign({id : user.userId}, secret.secret,{
    expiresIn : 120
   })
   res.status(200).send({
    name : user.name,
    userId : user.userId,
    email : user.email,
```

```
    userType : user.userType,
    accessToken : token
   })
}
```

2. controllers/category.controller.js

```
const category_model = require("../models/category.model")

/**
 * Controller for creating the category
 *
 *   POST localhost:8080/ecomm/api/v1/categories
 *
 *   {
       "name" : "Household",
        "description" : "This will have all the household items "
    }
 */
exports.createNewCategory = async (req, res)=>{

    //Read the req body
    //Create the category object
    const cat_data = {
        name : req.body.name,
        description : req.body.description
    }
    try{
       //Insert into mongodb
       const category = await category_model.create(cat_data)
       return res.status(201).send(category)
```

```
    }catch(err){
        console.log("Error while creating the category", err)
        return res.status(500).send({
            message : "Error while creating the category"
        })
    }


    //return the response of the created category
}
```

Middlewares

middlewares/auth.mw.js

```
const user_model = require("../models/user.model")
const jwt = require("jsonwebtoken")
const auth_config = require("../configs/auth.config")

/**
 * Create a mw will check if the request body is proper and correct
 */

const verifySignUpBody = async (req, res, next)=>{

    try{

        //Check for the name
        if(!req.body.name){
            return res.status(400).send({
                message : "Failed ! Name was not provided in request body"
            })
```

```
    }

    //check for the email
    if(!req.body.email){
        return res.status(400).send({
            message : "Failed ! Email was not provided in request body"
        })
    }
    //check for the userId
    if(!req.body.userId){
        return res.status(400).send({
            message : "Failed ! userId was not provied in request body"
        })
    }

    //Check if the user with the same userId is already present
    const user = await user_model.findOne({userId : req.body.userId})

    if(user){
        return res.status(400).send({
            message : "Failed ! user with same userId is already present"
        })
    }

    next()

}catch(err){
    console.log("Error while validating the request object", err)
    res.status(500).send({
```

```
            message :"Error while validating the request body"
        })
    }
}

const verifySignInBody = async (req, res, next)=>{

    if(!req.body.userId){
        return res.status(400).send({
            message : "userId is not provided"
        })
    }
    if(!req.body.password){
        return res.status(400).send({
            message : "password is not provided"
        })
    }
    next()
}

const verifyToken = (req , res, next)=>{
    //Check if the token is present in the header
    const token = req.headers['x-access-token']

    if(!token){
        return res.status(403).send({
            message : "No token found : Unauthorized"
        })
    }
```

```
    //If it's the valid token
    jwt.verify(token,auth_config.secret ,async (err, decoded)=>{
        if(err){
            return res.status(401).send({
                message : "Unauthorized !"
            })
        }
        const user = await user_model.findOne({userId : decoded.id})
        if(!user){
            return res.status(400).send({
                message : "Unauthorized, this user for this token doesn't exist"
            })
        }
        //Set the user info in the req body
        req.user = user
        next()
    } )
    //Then move to the next step
}

const isAdmin = (req, res, next) => {
    const user = req.user
    if(user && user.userType == "ADMIN"){
        next()
    }else{
        return res.status(403).send({
            message : "Only ADMIN users are allowed to access this endpoint"
        })
```

```
    }
}

module.exports = {
    verifySignUpBody : verifySignUpBody,
    verifySignInBody : verifySignInBody,
    verifyToken : verifyToken,
    isAdmin : isAdmin
}
```

ROUTES

routes/auth.routes.js

```
/**
 * POST localhost:8888/ecomm/api/v1/auth/signup
 *
 * I need to intercept this
 */
const authController = require("../controllers/auth.controller")
const authMW = require("../middlewares/auth.mw")



module.exports = (app)=>{
    app.post("/ecomm/api/v1/auth/signup",[authMW.verifySignUpBody], authController.signup)

    /**
     * route for
     * POST localhost:8888/ecomm/api/v1/auth/signin
     */
    app.post("/ecomm/api/v1/auth/signin",[authMW.verifySignInBody],authController.signin )
```

```
}
```

2.routes/category.routes.js

```
/**
 * POST localhost:8080/ecomm/api/v1/categories
 */

const authMw = require("../middlewares/auth.mw")

category_controller = require("../controllers/category.controller")
auth_mw = require("../middlewares/auth.mw")

module.exports = (app)=>{
    app.post("/ecomm/api/v1/categories",[auth_mw.verifyToken,
authMw.isAdmin],category_controller.createNewCategory)
}
```

server.js

```
/**
 * This will be the starting file of the project
 */
const express = require("express")
const mongoose = require("mongoose")
const app = express()
const server_config = require("./configs/server.config")
const db_config  = require("./configs/db.config")
const user_model = require("./models/user.model")
const bcrypt = require("bcryptjs")
app.use(express.json())
```

```
/**
 * Create an admin user at the starting of the application
 * if not already present
 */
//Connection with mongodb
mongoose.connect(db_config.DB_URL)
const db = mongoose.connection
db.on("error" , ()=>{
    console.log('Error while connecting to the mongoDB')
})
db.once("open", ()=>{
    console.log("Connected to MongoDB")
    init()
})

async function init(){
    try{
        let user  = await user_model.findOne({userId : "admin"})

       if(user){
          console.log("Admin is already present")
          return
        }

    }catch(err){
        console.log("Error while reading the data", err)
    }
    try{
      user = await user_model.create({
```

```
        name : "Vishwa",
        userId : "admin",
        email : "kankvish@gmail.com",
        userType : "ADMIN",
        password : bcrypt.hashSync("Welcome1",8)
      })
      console.log("Admin created ", user)
    }catch(err){
        console.log("Error while create admin", err)
    }
}
/**
 * Stich the route to the server
 */
require("./routes/auth.routes")(app)
require("./routes/category.routes")(app)
/**
 * Start the server
 */
app.listen(server_config.PORT, ()=>{
    console.log("Server started at port num : ", server_config.PORT)
})
```