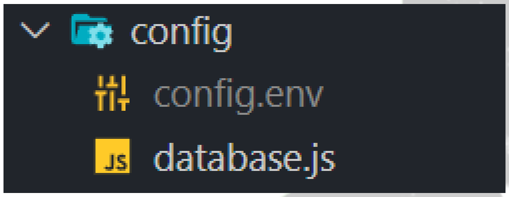
FOLDER STRUCTURE

Config

Config.env config files to store all env variables

Database.js database file contain connectDB function to connect database



```
config
    config.env
    database.js
```

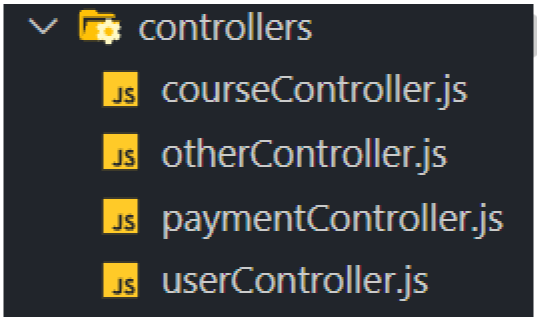
Controllers

CourseController.js contains all controllers related to the course & watcher

UserController.js contains all controllers related to the user & watcher

PaymentController.js contains all controllers related to the payment & subscription

OtherController.js contains remaing controllers like contact , course request, dashboardstats.



```
controllers
    courseController.js
    otherController.js
    paymentController.js
    userController.js
```

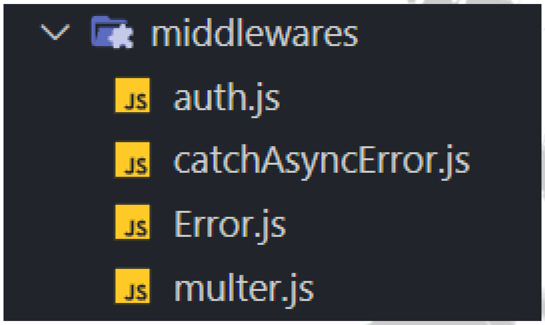
Middlewares

Auth.js contains middlewares related to authenticated

CatchAsyncError.js contains catchAsyncError middlewares

Multer.js contains multer middlewares

Error.js contains custom error middleware



```
middlewares
    auth.js
    catchAsyncError.js
    Error.js
    multer.js
```

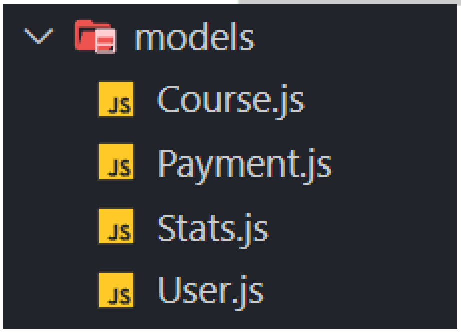
Models

Course.js course schema & model

Payment.js payment schema & model

Stats.js stats schema & model

User.js user schema & model



```
models
    Course.js
    Payment.js
    Stats.js
    User.js
```

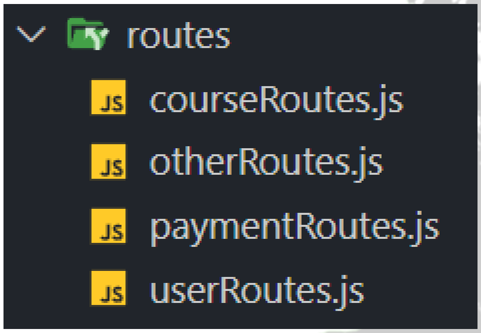
Routes

CourseRoutes.js routes related to course

PaymentRoutes.js routes related to payment

OtherRoutes.js remaining routes

UserRoutes.js routes related to user



```
routes
    courseRoutes.js
    otherRoutes.js
    paymentRoutes.js
    userRoutes.js
```

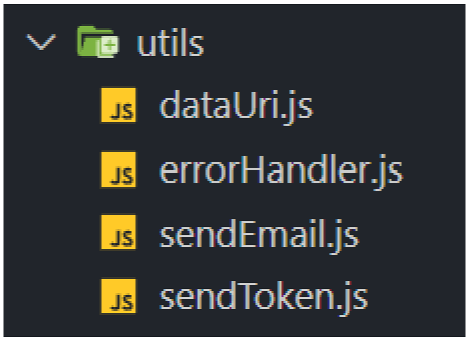
Utils

DataUri.js contains getDataUri function

ErrorHandler.js custom error handler class

SendEmail.js contains sendEmail function with nodemailer

SendToken.js contains sendToken function to set jwt token in cookie



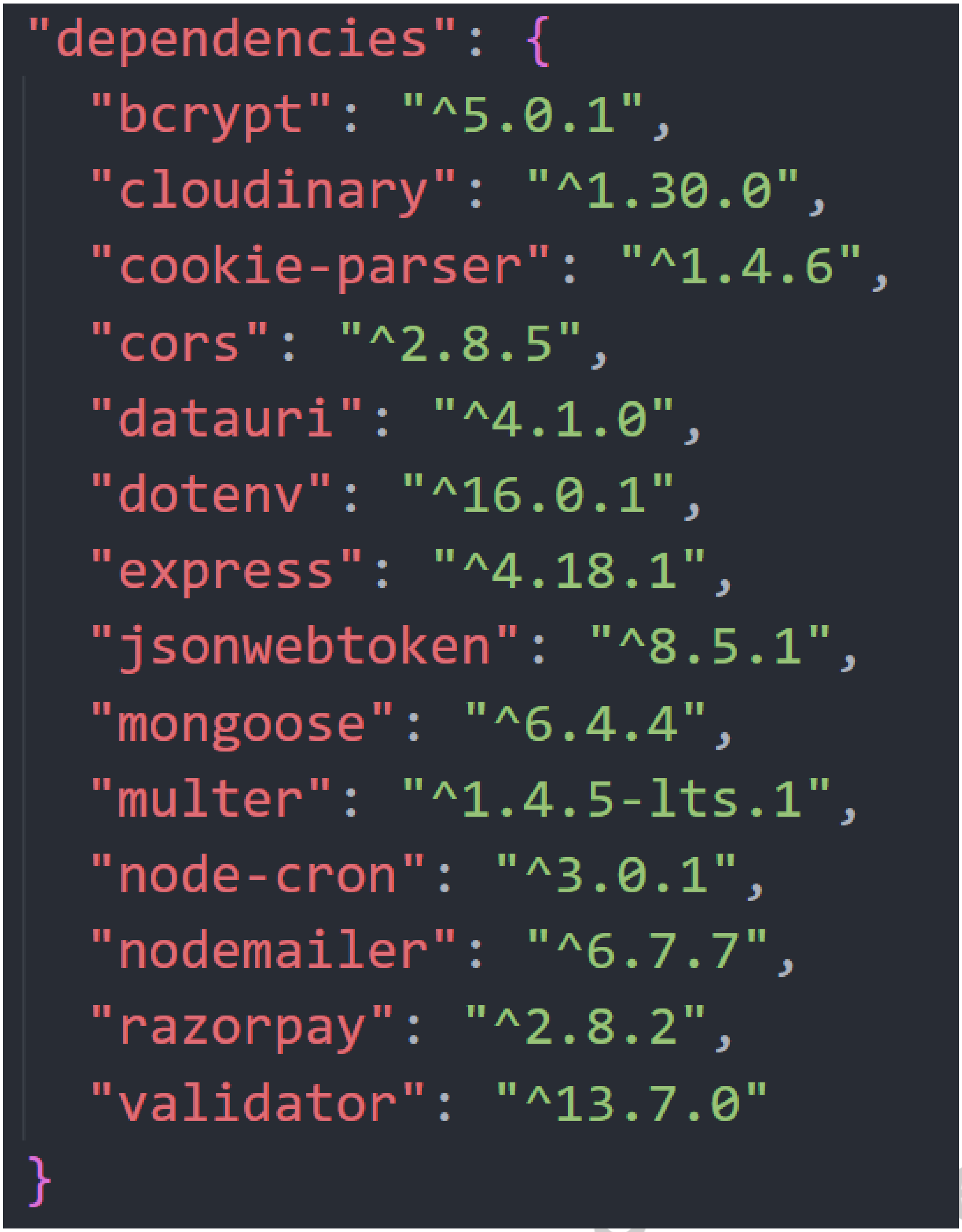
```
utils
    dataUri.js
    errorHandler.js
    sendEmail.js
    sendToken.js
```

App.js

Sever.js

DEPENDENCIES

bcrypt
cloudinary
cookie-parser
cors
datauri
dotenv
express
jsonwebtoken
mongoose
multer
node-cron
nodemailer
razorpay
validator



```
"dependencies": {
  "bcrypt": "^5.0.1",
  "cloudinary": "^1.30.0",
  "cookie-parser": "^1.4.6",
  "cors": "^2.8.5",
  "datauri": "^4.1.0",
  "dotenv": "^16.0.1",
  "express": "^4.18.1",
  "jsonwebtoken": "^8.5.1",
  "mongoose": "^6.4.4",
  "multer": "^1.4.5-lts.1",
  "node-cron": "^3.0.1",
  "nodemailer": "^6.7.7",
  "razorpay": "^2.8.2",
  "validator": "^13.7.0"
}
```

SEVER

Cloudinary Set Cloudinary configuration

Razorpay Create instance of Razorpay

ConnectDB Connect database

NodeCron Set a schedule to create new Stat each month

Listen Listen to a port

APP

Config configure dotenv

UseMiddlewares express.json, expres.urlencoded, cookieParser, cors, ErrorMiddleware

UseRoutes user, course, payment, other

API’s

User

Register To register a new user

Login To login

Logout To logout

UpdateProfile To update name & email

UpdateProfilePicture To change profile photo

ChangePassword To change password

ForgetPassword To send reset password link

ResetPassword To reset password with token

AddToPlaylist To add a course to the playlist

RemoveFromPlaylist To remove a course from the playlist

UpdateUserRole To change user to admin

GetAllUsers To get all available users

GetMyProfile To get logged in user data

DeleteUser To delete a User

DeleteMyProfile To delete my profile

Course

CreateCourse To create a new course

GetAllCourses To get all courses

AddLectures To add lecture in course

GetCourseLectures To lectures of a course

DeleteLecture To delete lecture in course

DeleteCourse To delete Course in course

Payment

BuySubscription To create/start a subscription

PaymentVerification This is the callback api to verify payment & save in database

GetRazorPayKey To get RazorPay API key

CancelSubscription To Subscription of a user

Other

Contact To send contact form mail

CourseRequest To send course request form email

GetDashboardStats To get Dashboard Stats

Middlewares

Auth

IsAuthenticated To make APIs accessible by logged in User

AuthorizeSubscribers To make APIs accessible only by Subscribers

AuthorizeAdmin To make APIs accessible only by Admin

CatchAsyncError

CatchAsyncError To use API in try-catch block

Multer

SingleUpload To get access to req.file

Error

ErrorMiddleware Custom error handling middleware

UTILS

DataURI

GetDataUri To get uri of file received from req.file

ErrorHandler

ErrorHandler Creating a custom error class extended from default error class

SendEmail

SendEmail Function to send email using nodemailer

SendToken

SendToken Function to set cookie in header

MODELS

User

Name type, required

Email type, required, unique, validate

Password type, required, minLength, select

Role type, enum, default

Subscription id, status

Avatar public_id, url

Playlist [courseId,poster]

CreatedAt type, default

ResetPasswordToken type

ResetPasswordExpire type

User Methods

PreSave hash password before saving user

GetJWTToken To generate jwt token

ComparePassword To compare hashed password and given password

GetResetToken To generate token for resetting password

Course

Title type, required, minLength, maxLength

Description type, required, minLength

Lectures title,description,videos { public_id,url }

Poster public_id, url

Views type, default

NumOfVideos type, default

Category type, required

CreatedBy type, required

CreatedAt type, default

Payment

Razorpay_Subscription_Id type, required

Razorpay_Payment_Id type, required

Razorpay_Signature type, required

CreatedAt type, default

Stats

User type, default

Subscription type, default

Views type, default

CreatedAt type, default

CONFIG VARIABLE

PORT Port to listen

PLAN_ID Subscription plan id created from razor pay

RAZORPAY_API_KEY Razorpay API key

RAZORPAY_API_SECRET Razorpay API Secret

JWT_SECRET any random secret for jwt

FRONTEND_URL frontend hosting address

MONGO_URI database URI

CLOUDINARY_CLIENT_NAME Cloudinary username

CLOUDINARY_CLIENT_API Cloudinary API key

CLOUDINARY_CLIENT_SECRET Cloudinary API secret

RESET_PASSWORD_SECRET any random secret for password token

SMTP_HOST Email service host

SMTP_PORT Email service port

SMTP_USER Email service userId

SMTP_PASS Email service password

MY_MAIL Mail to receive contact form & request form data

REFUND_DAYS Refund applicable days