

CREATE A SERVER

01 - EXPRESS

02 - LISTEN

03 - PORT

Express.js is a fast, flexible and web framework for Node.js. It's effectively a tool that simplifies building web applications and APIs using JavaScript on the server side.

Express app.listen() method creates an http server object and then configures it to receive incoming TCP connections on a specific port and IP address so that when clients request a connection to that port and send an http request, the server can receive that http request and process it, sending a response.

You can specify the port number on which your Express server will listen. This is usually done by defining a variable for the port and then using it in the app.listen method.

CONNECT TO DATABASE

01 - MONGOOSE.CONNECT

The mongoose.connect() function in Mongoose is used to establish a connection between your Node.js application and a MongoDB database.

mongoose.connect(uri)

uri: A connection string that specifies the location of the MongoDB database you want to connect to.

MODEL: USER SCHEMA

01-SCHEMA

To define a schema in Mongoose, you use the Schema class provided by the Mongoose library. Here's a basic example:

02-CREATING A MODEL

After defining a schema, you create a model from it. The model provides an interface to interact with the MongoDB collection:

mongoose.model('User', userSchema);

ROUTES

In Express.js, a "route" is a specific URL pattern that an application responds to with a function. It determines how HTTP requests are handled by the server.

// Router object
const router = express.Router()

01-REGISTER ROUTER

// METHOD POST
router.post('/register', registerController)

02-LOGIN ROUTER

// METHOD POST router.post('/login', loginController)

HASH PASSWORD & COMPAREPASSWORD

bcrypt:bcrypt is a popular library used for hashing passwords in Node.js applications.

Hashing: A one-way function that converts the original password into a fixed-length string.

Salting: This ensures that even if two users have the same password, their hashed values will differ.

01-HASHPASSWORD

use in Registration controller

bcrypt.hash(password, saltRounds)

02-COMPAREPASSWORD

use in Login controller

bcrypt.compare(password, hashed pass)

CONTROLLER

A "controller" is a JavaScript module that contains functions to handle requests for specific routes.

01-REGISTER CONTROLLER

- Access req
- validate
- check user for existance
- Register user

01-LOGIN CONTROLLER

- Access req(email,pass)
- validate
- check email
- check pass
- Login

TOKEN

JSON Web Tokens (JWT) are compact, URL-safe tokens used for securely transmitting information between parties as a JSON object. They are commonly used for authentication and information exchange

const token = jwt.sign(id, secretKey, { expiresIn: '1h' });
return token;

01-LOGIN CONTROLLER

- Access req(email,pass)
- validate
- check email
- check pass
- Login

THANK YOU CFOR CODING