NODE JS Tutorial!

**Project Setup Steps:**

1. Create Project folder
2. In terminal, cd to project folder and run:

npm init -y

This will create package.json file

1. Inside package.json, change index.js to server.js
2. Install dependencies to get basic express server set up:

npm i express ejs express-ejs-layouts

1. Add development dependency:

npm i --save-dev nodemon

1. In scripts portion of package.json, add:

"scripts": {

    "start": "node server.js",

    "devStart": "nodemon server.js"

  },

1. Create server.js file and in server.js, add the following:

const express = require('express')

const app = express()

const expressLayouts = require('express-ejs-layouts')

app.set('view engine', 'ejs')

app.set('views', \_\_dirname + '/views') //Server end views

app.set('layout', 'layouts/layout')

app.use(expressLayouts)

app.use(express.static('public')) //Public views

app.listen(process.env.PORT || 3000)

1. npm run devStart

This starts up the express server at localhost:3000

1. Create a routes and models folder (Since we are following MVC architecture)
2. Inside routes folder, create index.js for default route

const express = require('express')

const router = express.Router();

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

    res.send('Hello World!')

})

1. Inside server.js, register the index router by adding below line:

const indexRouter = require('./routes/index')

app.use('/', indexRouter)

1. In index.js, add below line to use the router

module.exports = router

1. Create layouts/layout.ejs inside Views folder and press ! enter to get boiler plate html code in layout which will be used for the application
2. Use ejs templating to include body in layout.ejs file

<%- body %>

1. Change the res.send() to res.render() in index.js route

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

    // res.send('Hello World!'); Commented

    res.render('index')

})

1. Connect our application to a local MongoDB database. Go to server.js and integrate MongoDB by adding:

npm i mongoose

1. Add below code to server.js

//mongoose settings

const mongoose = require('mongoose')

mongoose.connect(process.env.DATABASE\_URL, {

    useNewUrlParser: true

})

const db = mongoose.connection

db.on('error', error => console.error(error))

db.once('open', () => console.log('Connected to mongoose'))

1. Install dotenv library

npm i –save-dev dotenv

1. Create .env file in root folder and add db url

DATABASE\_URL=mongodb://localhost/mybrary

1. Add this line at top of server.js

if (process.env.NODE\_ENV !== 'production') {

    require('dotenv').config()

}

1. Initialize git and create .gitignore with .env and node\_modules folder inside as text content

git init