Setting up a backend project based in node

- npm init
- Ideally, a project should have a **readme** file to explain various things about the project. So create a readme.md file.
- Open the package.json file that got created after npm init
- If you want to work with CommonJs (that uses **require()** syntax), then no change required, otherwise if you prefer ModuleJs (that uses **import** syntax), We can change type.
- Every professional project should have nodemon installed as a dev dependency. Nodemon monitors for any changes in your source and automatically restart your server. Install it using <code>npm i -D</code> nodemon
- Add a dev script to run the server in development mode using nodemon. We can run npm run dev
 to start the server in development mode.
- Every professional project must have prettier installed as a dev dependency. Prettier is a code formatter that helps maintain consistent code style across your project. Install it using npm i -D prettier

```
"name": "05_professional_setup",
  "version": "1.0.0",
  "description": ""

"type": "module",
  "main": "index.js",
  Debug

"scripts": {
    "dev": "nodemon src/index.js"
},
    "author": "Gautam Raj",
    "license": "ISC".

"devDependencies": {
    "nodemon": "^3.0.3",
    "prettier": "^3.2.4"
}
```

- After installing Prettier, you might want to create a configuration file (.prettierrc or prettier.config.js) in the root of your project to customize its settings according to your preferences.
- A sample .prettierrc file

```
"singleQuote":false,
    "bracketSpacing": true,
    "tabWidth": 2,
    "trailingComma": "es5",
    "semi":true
}
```

- But we don't want changes to occur in some important files like .env or files in node_modules folder.
- So ideally we would like to have a .prettierignore file.
- A sample .prettierignore file.

```
1 /.vscode
2 /node_modules
3 ./dist
4
5 *.env
6 .env
7 .env*
```

- · Some prettier and ESLint articles to study:
 - how-to-use-prettier-vscode
 - vscode-eslint
 - prettier-eslint
- Now it's time to handle environment variables
 - Environment variables are specified in a special file .env in the project's root directory, for using this we must install dotenv package using npm i dotenv.
 - As this is confidential, this should not be uploaded on platforms like git so we will also create a
 .env.sample file for other users/developers to see just the structure.
 - Just create these files, later on someone who is working with database and all will fill these files with details.
- · Now it's time to create different directories.
- First of all create a public directory and Inside this create a temp directory.
 - It comes handy when we want to upload our file/images to a third party service like Cloudinary,
 AWS etc. We temporarily keep our files/images inside temp folder for any contingency that may occur.
- Then create a src directory
 - Inside this create the following directories: controllers , db , middlewares , models , routes , utils
 - And inside the src directory create the following files: app.js , constants.js , index.js
- If we are working with git, then in the project's root directory we must add .gitignore file so that unnecessary or confidential things(like environment variables) don't get uploaded.
- · This is how a professional setup is done.

Additionally if you want to push all these to git. Then we have a problem right now as empty folders
are not added by git. So we can create a .gitkeep file inside every folder just so that git can add
them.



