**Mistakes I made when I started Nodejs + MongoDb -** [Shrihari Mohan](https://medium.com/@shriharimohan?source=post_page-----350e73c24b3a--------------------------------) Jun 4, 2022

**1. Starting nodejs without Express**

I started directly with Express Framework and have no idea how nodejs work without express ( then ). Its always good to learn nodejs a couple of hours and then start with express just so you know. Its like knowing Angular/React and not knowing DOM. Learn [nodeJs](https://nodejs.dev/learn" \t "_blank)

**2. nodeJs + Typescript = nodeTs**

You just started nodejs everything is going well , there are couple of routes and controllers.

Suddenly you have 15 Routes, 15 Controllers, 5 Utils and Middlewares. I always say this types comes a long way. Always use types and it will reduce a lot of developer time when there are a lot of files to deal with.

And if someone new/contributor on your team and you introduce them to your codebase. They will thank you for having types. Trust me !

Check out this Check out this [Blog](https://dev.to/aryclenio/how-to-setup-a-nodejs-project-with-typescript-4ehi) from [@Aryclenio Barros](https://dev.to/aryclenio) to setup Typescript. You can also convert your existing codebase to typecscript.

**3. Directly passing res and req to controllers.**

This is not a mistake its just a preference to make the code readable. Showing a code sample using Express Framework!

Our route.js file

Text

Description automatically generated

route.js

Our controller.js file

Text

Description automatically generated

controller.js

Instead of returning a response inside controller. Let me tell you what is a route and controller in my prespective.

A **route** for me will handle all the route related things such as query params , request.body and responses.

So our modified route.js

Text

Description automatically generated

Modified route.js

A **controller** for me will handle only database related operations and just return the results.  
  
Our modified controller.js

Text

Description automatically generated

Modified controller.js

Its a preference that makes our life easier seperating route operations and db operations.

**4. Indexing in mongoDB**

If you’re new to database design , there is a special feature called indexing which will make our querying times faster when dealing with the large collections.

I found indexing because of firebase and implemented in my mongoDb projects. Firebase will not let you run queries if the field is not indexed.

Learn more about [MongoDb Indexing — Medium](https://medium.com/@shriharimohan/dont-forget-to-do-this-if-you-re-using-mongodb-indexing-74470d269e62) or [MongoDb Indexing — devTo](https://dev.to/shrihari/dont-forget-to-do-this-if-youre-using-mongodb-j36" \t "_blank)

**5. Atomic Operations**

Lets say there is a requirement where per request you have to modify 2 documents at a same time.

*Either Both the documents should be modified or none of them should be modified. This makes our data consistent.*

This implementation can be done in mongoDb with the use of atomic operations. [Learn more](https://www.mongodb.com/docs/manual/core/write-operations-atomicity/)

📝 Bookmark this if you are going to start with Nodejs + MongoDB.

If you’re starting with angular you may also want to know the [mistakes I made in angular](https://medium.com/@shriharimohan/mistakes-i-made-when-i-started-with-angular-applies-to-any-web-framework-e9a657d929e7).

**[😑 Mistakes I made when I started with Angular (Applies to any web framework)](https://medium.com/@shriharimohan/mistakes-i-made-when-i-started-with-angular-applies-to-any-web-framework-e9a657d929e7" \t "_blank)**

[These are things you should consider when you are starting with JS frameworks.](https://medium.com/@shriharimohan/mistakes-i-made-when-i-started-with-angular-applies-to-any-web-framework-e9a657d929e7" \t "_blank)

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\*\*Peace\*\* 🕊 !

22