

# Fullstack Lab 1

I started with creating the database and my collections with some basic documents in it.

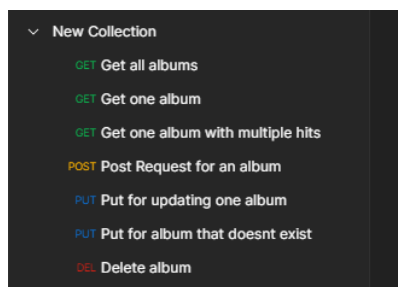
The documents are created according to the specification of the lab description.

Then I created my visual studio code project and started installing my dependencies I'm using, dotenv, express, mongoose and nodemon.

I moved on to the database connection where I initially had some issues of how to format my URI, but managed to figure it out, including creating the model for the albums that is used when I access the collection. I ran into some issues here as well where MongoDB prefers to have it's collection as plural. I was able to come around this by specifying the collection:

```
3 const albumSchema = new mongoose.Schema({
4   title: String,
5   artist: String,
6   year: Number
7 }, { collection: 'Album' })
```

Once I had the database connection up and running, I created my server.js with an express app as well as basic routes to start off with. I create all of my routes and use Postman to ensure that they are functional when I start developing my frontend. I believe the frontend development gets much simpler once you know that the backend and its routes operates as you expect them to do.



Once I had the backend functional, I started off with re-factoring it. I created an apiRouter that holds all the functionality for my api.

I created the Frontend without any frameworks as stated in the lab description. I therefore decided to hold the JS-code under the script tag in the index.html file and just use LiveServer to view the page. The code under the script tag does renders the page and creates all functionality to it, like the buttons that triggers a fetch to the API. I believe It could have been beneficial to use Frontend frameworks for this task but I managed to make it look ok and be functional without.

The github link for this project is: <https://github.com/rcobanov/FullstackLab1>

In order to run the program, follow the below steps:

1. Open the folder in Visual Studio Code.
2. Make sure LiveServer is installed.
3. Run 'npm install'.
4. Write "node server.js" in the console to start the server.
5. Press on index.html and run LiveServer.