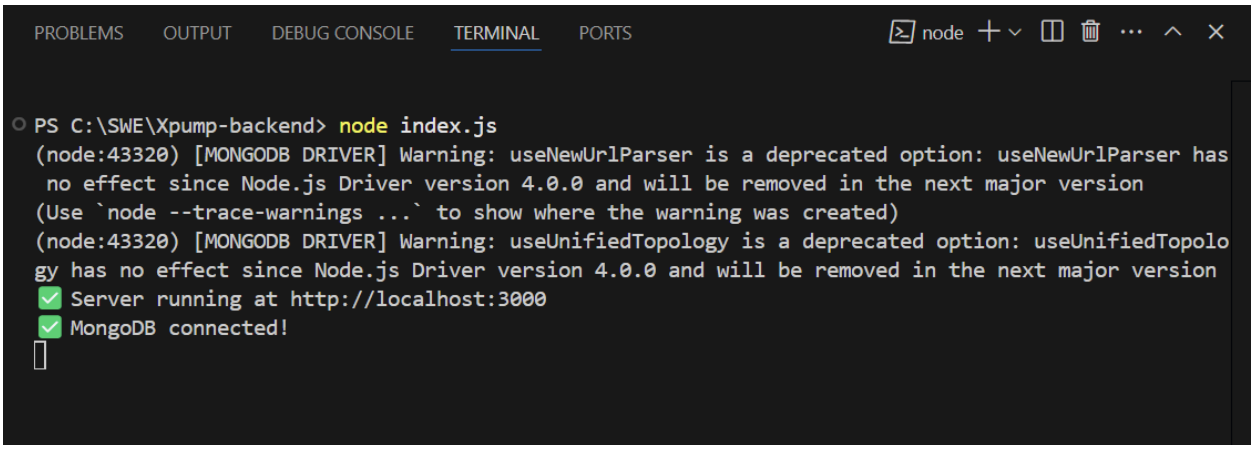
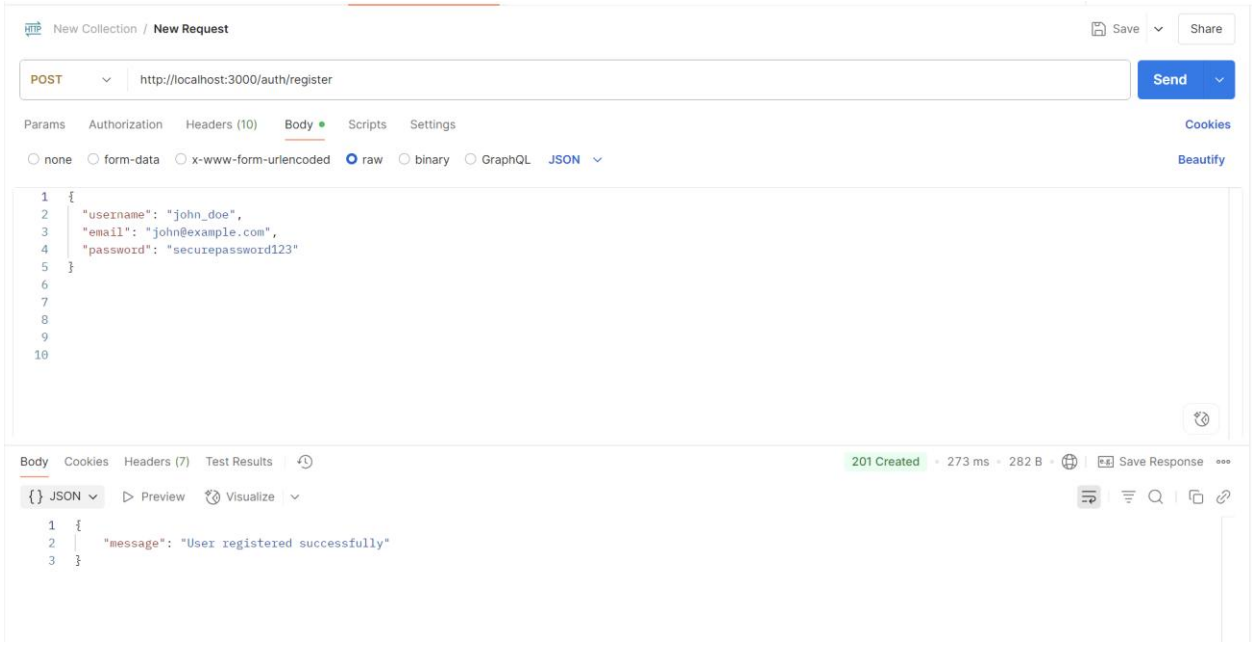
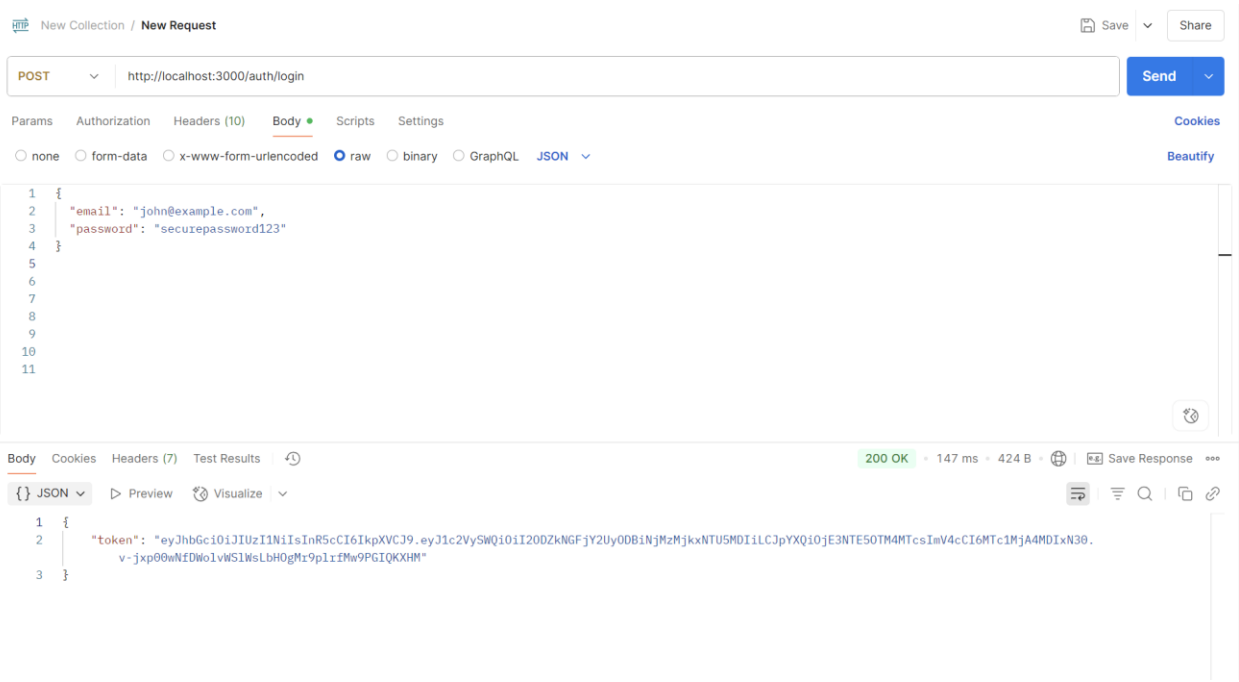
INTRODUCTION TO BACKEND

1. To run the back end locally cd to your project and type node index.js, this will connect your server.



2. Understanding the data-base: The data base is made up of collections and each collection has data entries named documents. Each document is in json format. How each Json is specified is called a Schema. These Schemas are defined in the module directory. We call each collection a module, think of these like classes. The Schema defines the module.
3. Each module has routines, we can think of these like methods of a class.

Method	Purpose	Behavior	Example Route
POST	**Create**	Adds a new item to the database	POST /weight
GET	**Read**	Retrieves existing data	GET /weight/:id
PATCH	**Partial Update**	Updates only specific fields	PATCH /weight/:id
PUT	**Full Update**	Replaces the entire item	PUT /weight/:id
DELETE	**Delete**	Removes the item from the database	DELETE /weight/:id

4. Testing the back end- In order to test the back end we need to send URLs to the locally ran server. Essentially all of these methods require a authentication key as they are “Protected routines”. Moreover methods that add or change documents need json content along with the URL and authentication key. In order to send these URLS and JSON content we use postman. Here is an example of using the back end to register a user to the back end. In order to get the Authentication key of the user they must log in. This is shown aswell.

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