MERN Backend Setup

- 1. Set up MongoDB Atlas
- 2. Create a .gitignore file and add node_modules/ to the file.
- 3. Initialize the git repository git init in the project root directory.
- 4. Create a README.md file.

Install dependencies:

- 1. npm i express express-validator bcryptjs config gravatar jsonwebtoken mongoose request
- 2. express: Main web frame for the backend.
- 3. express-validator: Used for data validation. Will raise errors.
- 4. bcryptjs: Used for password encryption.
- 5. config: global variables.
- 6. gravatar: Profile avatars
- 7. jsonwebtoken: Using JWT to pass a token for validation.
- 8. mongoose: Used to interact with database.
- 9. request: Module to allow HTTP requests to API's. Installed for the GitHub repository profiles to be listed for the backend.

Install nodemon and concurrently

- 1. npm i -D nodemon concurrently
- 2. nodemon watches the server for any changes and automatically makes changes.
- 3. concurrently will allow the backend Express server and frontend React dev server at the same time.

Make the following file, server.js, in the root directory.

• This is the content of the server.js file

```
const express = require('express'); // Bring in Express

const app = express(); // Entialize app varialble with express

app.get('/', (req, res) => res.send('API Running')); // End point for testing

const PORT = process.env.PORT || 5000; // App varialble listining on a PORT

app.listen(PORT, () => console.log(server_started_on_port_${PORT})); // PORT varialble
```

Create Main Entry File in the root directory:

• server.js Add the following code to the file.

```
const express = require('express');
const app = express();
app.get('/', (req, res) => res.send('API Running'));
const PORT = process.env.PORT || 5000;
app.listen(PORT, () => console.log(server_started_on_port ${PORT}));
```

Modify package.json scripts

- 1. Re-palace "test": \"Error: no test specified\" && exit 1 with:
- 2. "start": "node server"

and add: - "server": "nodemon server" used for development.

Start Server

• npm run server

Then go to Postman and run a GET http://localhost:5000 and SEND. You should get the following: API Running