# **Ntokozo Mweli**

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# **Module: APDS 7311**

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# **POE**

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# USER INTERFACES

The user interface of the website has 4 pages. It is the list page, add post page, login page and signup page.



Figure List of posts page

The list of posts is shown in Figure 1 in that format (Digamber, 2022) (Bouchefra, 2019).

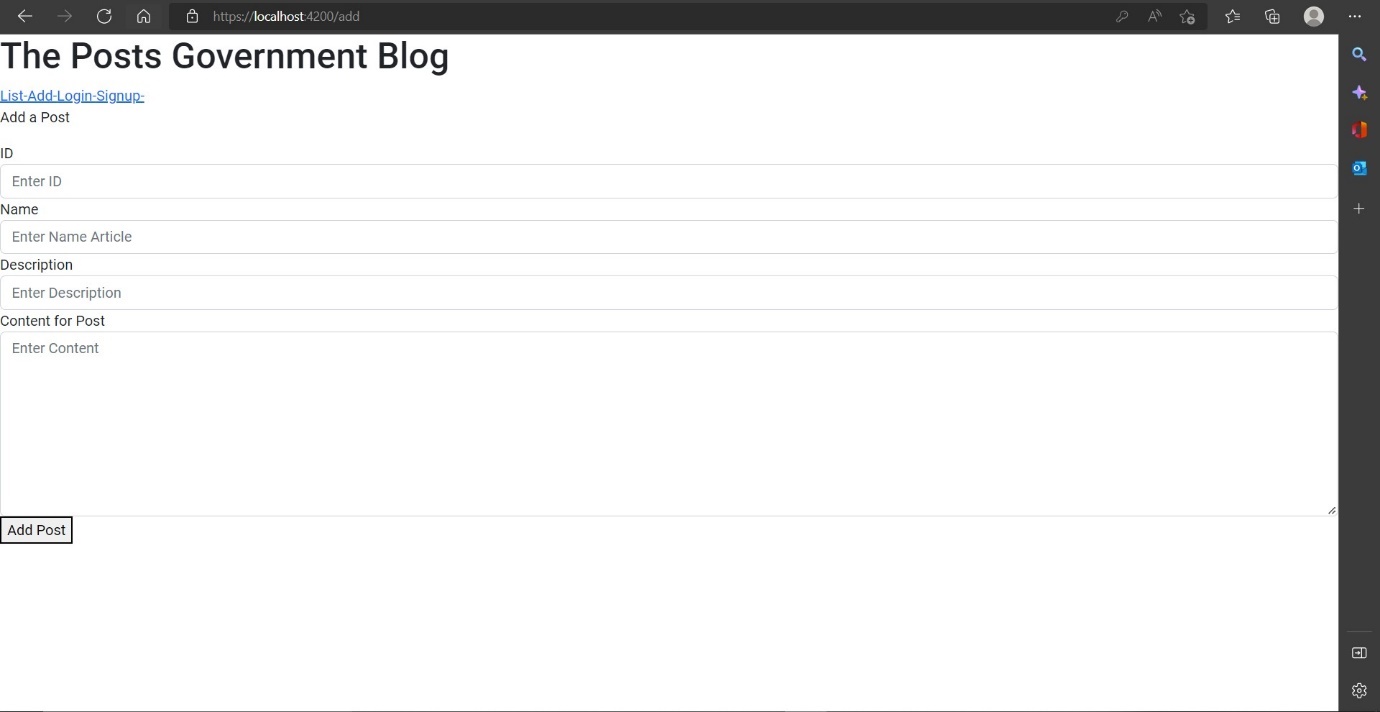


Figure Add a post

Figure 2 shows the adding of the post. The user can enter the ID, name, short description of the post and the content presenting the post (Asif, 2020). The user will be notified if the post has been added (Asif, 2020).

Graphical user interface, application

Description automatically generated

Figure Sign Up of the user

The user can signup using the username and password. The minimum length of username is 6 and password is 8 (Asif, 2020).

Graphical user interface, application

Description automatically generated

Figure Login of the user

The user can login using the username and password. The minimum length of username is 6 and password is 8. Login will provide the token required to add a post to the mongo database (user184994, 2018).

# ADDITIONAL SECURITY FEATURES

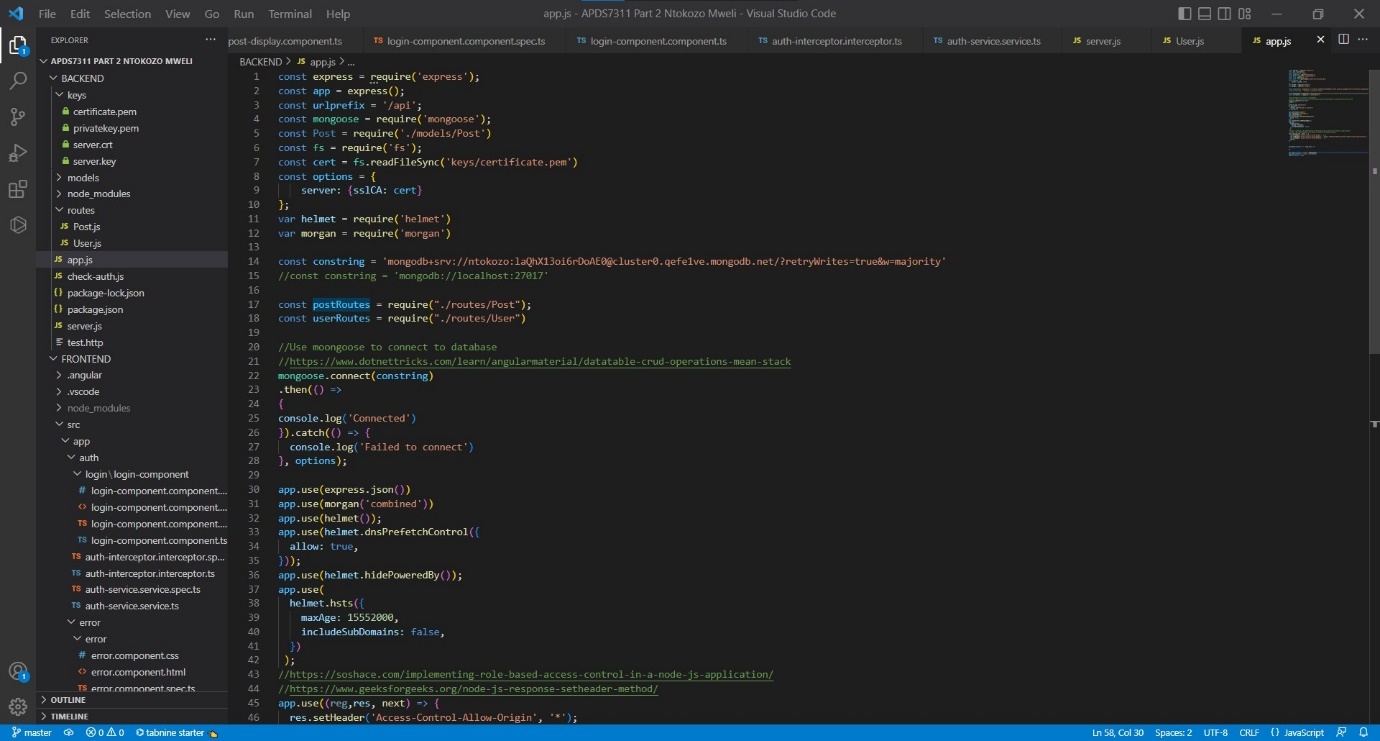


Figure Additional security features

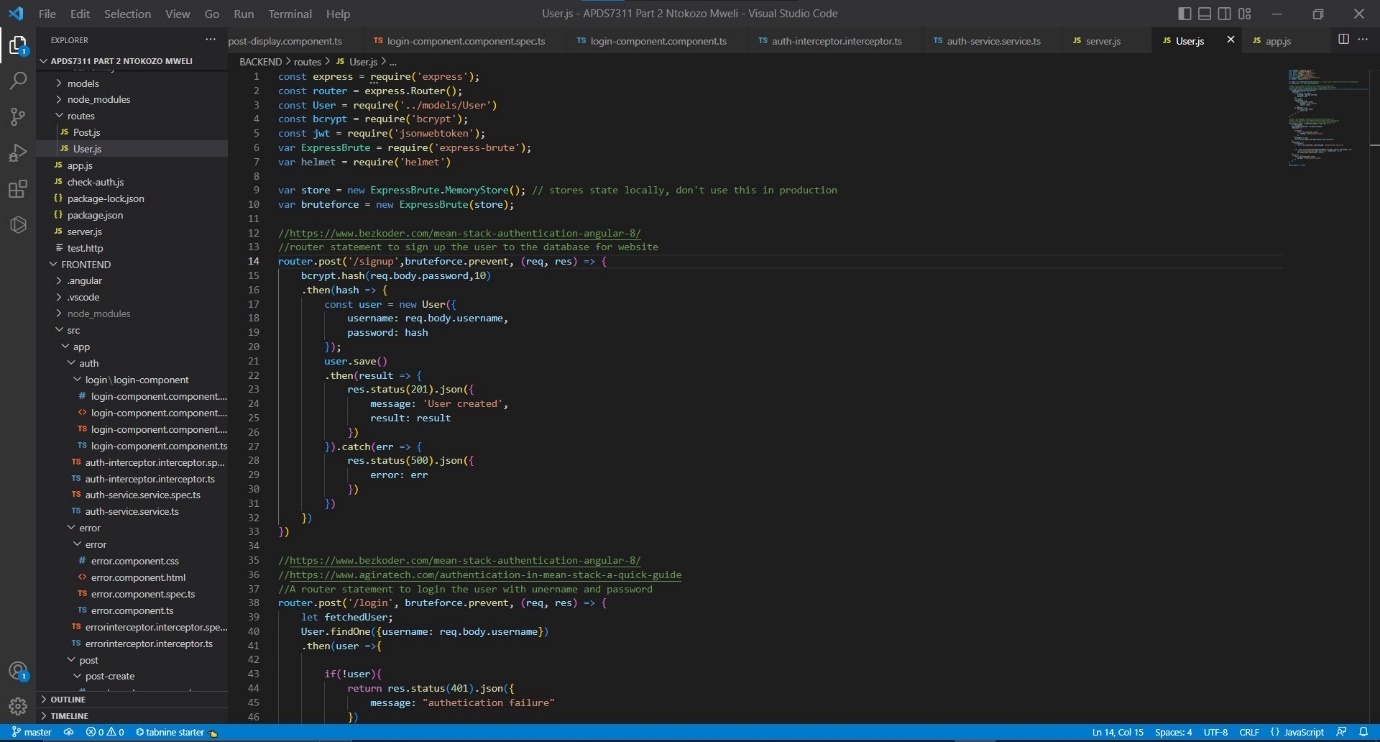


Figure Use of brute on post requests of login and signup of the user

Additional security features include use of brute, morgan and helmet. The brute seen in Figure 6 is to reduce the risk of brute force attack during login and signup of the user (npmjs, 2022). It is added as a parameter to help prevent brute force in the login and signup requests (npmjs, 2022).

In Figure 5 is the use of morgan and helmet. The helmet.js is designed to help secure Express applications with the setting of HTTP headers. It is a middleware. Morgan is also middleware but works with HTTP request level which is useful for logs with requests along with other information depending on configuration being made. Helmet used here is for the strict transport security, the x-powered by and x-DNS-Prefetch-Control methods (Dechalert, 2021). Morgan is the simple use of stating its use with combined letter (Dechalert, 2021).

# STARTING FRONTEND AND BACKEND

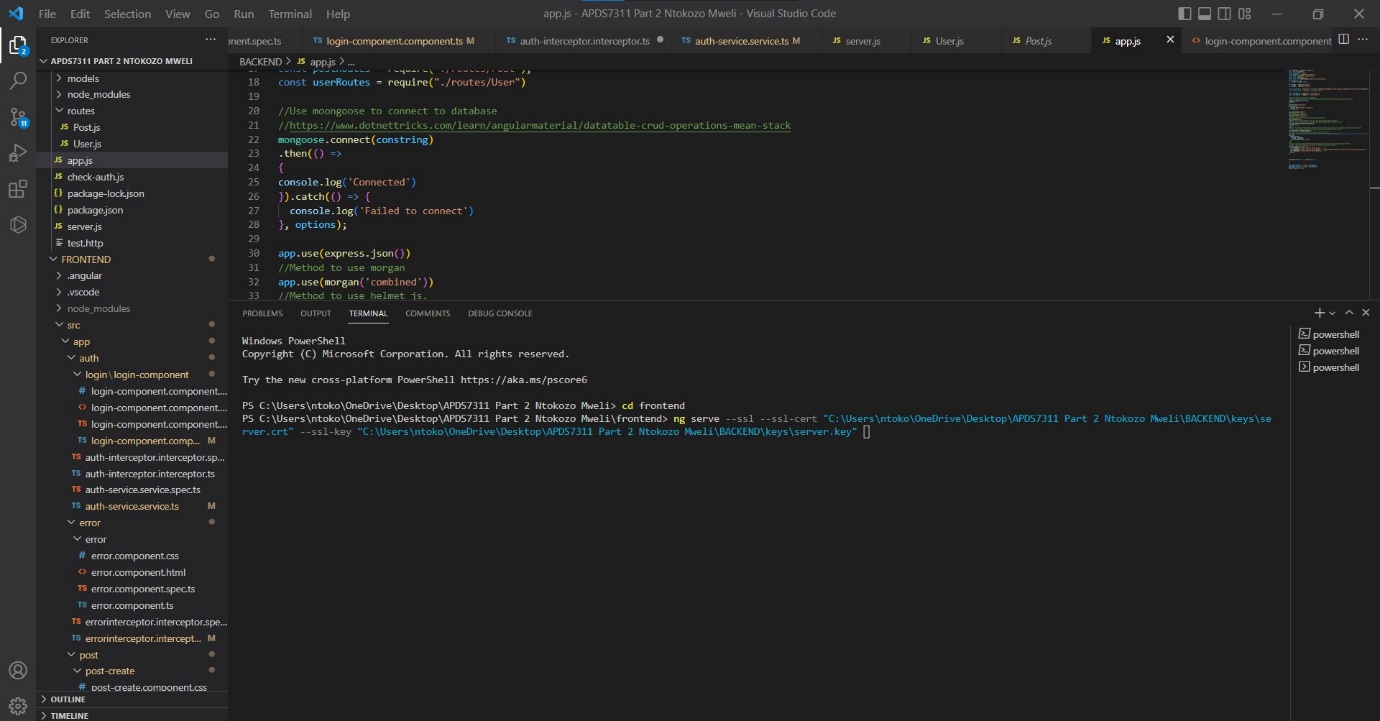


Figure Starting frontend with angular

To start the backend, the path needs to be “\APDS7311 Part 2 Ntokozo Mweli\backend and then type npm run dev. It will start running on the backend. To start the angular frontend, the path and statement need to be run like shown in Figure 7. However replace the paths of the key and certificate with path accordingly on the other pc (CodePosibility, 2020). To do this, right-click on the key and/or certificate and select copy path to copy the path (Vermeulen, 2018) (Adriano, 2021).

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