Students Information

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Introduction

Lab Exercise-8 required our team to create our own web application with a frontend and backend for validating a JSON Web Token against login credentials (email address and password.) We have a GUI implementation for this iteration, developed in Angular CLI.

Objectives

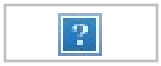
- 1- Create backend web server to create and serve JSON Web Token.
- 2- Generate an Angular project to work within.
- 3- Corey and Khalid implemented frontend, backend, and middleware together.

Design/Implementation

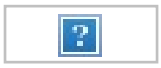
```
$ *** Created a new directory ***
$ npm install @angular/cli
$ ng new Lab8
```

```
$ cd Lab8
$ ng generate component login
$ ng generate component user-details
$ ng generate service auth
$ *** Created "server" directory in project's root directo
ry ***
$ *** Created app.js and placed in "server" directory****
$ Added |const cors = require('cors);| and |const bodyPars
er = require('body-parser')| to app.js
$ Express application uses cors and body-parser in backend
 program
```

Postman (For Testing Purposes)

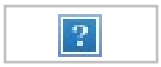


Backend code added to app.js file for validation against email address and password.



Backend server running/listening

Frontend code for auth.service.ts within Angular CLI application



Web application’s frontend running

Web application’s frontend storing JSON Web Token in local storage and validating against email/password

Conclusion

That concludes our implementation for Lab 8. We were successfully able to implement the backend server logic, as well as the frontend GUI - we will continue to work on understanding and implementing post requests with the obtained bearer token to retrieve the body data from the backend server.