**s2925329\_Assignment1\_Documentation**

**GitHub –** <https://github.com/MarveLouis/3813ICT_assignment1>

The project is split into 2 parts, the app and the server are located separately.

**App –**

The angular-app folder holds all components file of the application. It uses and follows the standard Angular framework structure. The components are located in ‘/angular-app/src/app’. It includes the generated components and express components that handles routing, and css elements(bootstrap).

**Server –**

The server folder houses the files to run a node.js server. The main file used to run the server is server.js. Other .js files are placed separately from the server.js file to handle their respective operations.

All user login and group data are located in authdata.json and groupdata.json respectively.

**Git –**

Though with some trouble using GitHub, third party program such as Sourcetree was used to handle strange behaviours when committing and pushing changes using VS code terminal.

The git repository was kept simple and plain.

**Data Structure –**

The user object is stored in the JSON file, with the username, email, and role as variables.

Group only has groupname.

The ability to add users to group, create and manipulate channel is not fully implemented in this project.

**REST API –**

Home – the landing page that allows existing users to login using username and email. If the user tries to access other pages without login in first, they’ll be redirected to this page. Once they have logged in their credentials will be stored in sessionStorage. There are some validations in place.

Chat – the chat functionality is implemented; the chat page allows logged in users to communicate with each other. Displaying sent messages and username. If the user tries to access the admin and group page without the correct privilege, they’ll be redirected to the chat page.

Admin – the admin page acts as a dashboard for the super admin, any user with the “super” privilege can access this page. And from this page, they can register, delete, and view all existing users. Users with the “group” role does not have access to the admin dashboard.

Group – the group page acts similarly to the admin page, however this serves as a dashboard for creating, deleting and viewing all existing groups. Both users with “super” and “group” privilege can access this page.

Navbar – The navbar is located at the top of the application, allowing users to access other pages and functions. And if the user is logged in, they can use the logout button to logout, clearing their credential from the session data. Users who are not logged in cannot use the logout button.

All login credentials are located in ‘/server/authdata.json’.