**s2925329\_Assignment2\_Documentation**

**3813ICT\_Software\_Framework**

**GitHub –** <https://github.com/MarveLouis/3813ICT_assignment1/tree/Assignment2-init>

**Installation/Running –**

1. Pull project from GitHub
2. Run npm install in angular-app and server folder to update/install npm
3. Run ng serve in angular-app folder
4. Run node server.js in server folder

**Git Layout –**

The project contains 2 folders, angular-app and server.

Angular-app folder contains the main angular project and all client-side files.

Server folder contains the back end and the files necessary to host the node.js server.

**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.

**Version Control –**

There are frequent commits and updates after meaningful changes are made to the project. Each commit has a comment attached to describe progress and changes.

**Data Structure –**

There are 2 entities, the users and the groups, the structures are as the following:

Users:

|  |  |
| --- | --- |
| Name | Type |
| Id | Unique string (generated by mongodb) |
| name | string |
| pwd | String(password) |
| role | string |

Groups:

|  |  |
| --- | --- |
| Name | type |
| Id | Unique string (generated by mongodb) |
| groupname | String |
| admin | string |

**REST API –**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Route | Parameters | Method | Return Values | Purpose |
| /api/users |  | Get | userData:object  boolean | Get all user data |
| /api/user | userData:object | Post | userData:object  boolean | Create new user |
| /api/user/:id | userData:object | Put | userData:object  boolean | Update user data |
| /api/user/:id | Id:string | Delete | userData:object  boolean | Delete user from DB |
| /api/groups |  | Get | groupData:object  boolean | Get all group data |
| /api/group | groupData:object | Post | groupData:object  boolean | Create new group |
| /api/group:id | groupData:object | Put | groupData:object  boolean | Update group data |
| /api/group:id | Id:string | Delete | groupData:object  boolean | Delete group from DB |

**Angular Architecture –**

Routes

App.module.ts

|  |  |
| --- | --- |
| path | component |
| /login | LoginComponent |
| /chat | ChatComponent |
| /admin | AdminComponent |
| /group | GroupComponent |

**Services –**

Mongo

socket.io

express

**Features –**

User authentication

Admin privilege

View all users

Create new users

Delete users

Update users

View all groups

Create new groups

Delete groups

Update groups