

MyApp

This project was generated with [Angular CLI](<https://github.com/angular/angular-cli>) version 18.2.1.

Development server

Run `ng serve` for a dev server. Navigate to `http://localhost:4200/`. The application will automatically reload if you change any of the source files.

Code scaffolding

Run `ng generate component component-name` to generate a new component. You can also use `ng generate directive|pipe|service|class|guard|interface|enum|module`.

Build

Run `ng build` to build the project. The build artifacts will be stored in the `dist/` directory.

Running unit tests

Run `ng test` to execute the unit tests via [Karma](<https://karma-runner.github.io>).

Running end-to-end tests

Run `ng e2e` to execute the end-to-end tests via a platform of your choice. To use this command, you need to first add a package that implements end-to-end testing capabilities.

Further help

To get more help on the Angular CLI use ``ng help`` or go check out the [Angular CLI Overview and Command Reference](<https://angular.dev/tools/cli>) page.

Description

The chat system is designed to facilitate real-time communication among users, grouped within designated channels and groups. This system incorporates a tiered permission structure to accommodate varying levels of administrative control and access:

Super Admin:

- Ultimate control over the entire system.
- Can create or delete any groups and channels.
- Manages user roles and permissions across the system.
- Has oversight of all group activities and can intervene in any group or channel if necessary.

Group Admin:

- Manages specific groups assigned to them.
- Can add or remove users from their groups.
- Responsible for creating and managing channels within their groups.
- Can moderate discussions and manage group-specific settings.

User:

- Basic access level intended for general communication.
- Can join channels and participate in discussions as permitted by their group admin.
- Can view and send messages, share files, and engage in video calls within the channels they have access to.

Installation Instructions

To set up a project on your local system, follow these steps:

1. Verify that Node.js is installed on the system.
2. Replicate the project repository: ``git clone https://github.com/your-repo/s5310537-project.git``
3. Go to the project directory: ``cd s5310537-project``
4. Install Angular CLI globally: ``npm install -g @angular/cli``
5. Go to the server directory: ``cd src/server``
6. Install server dependency: ``npm install``
7. Start server: ``node index.js``

Implementation Guidelines

To run the Angular Development Server:

- Start the Angular Development Server: ``ng serve --open``
 - This command automatically opens ``http://localhost:4200/`` in the default browser.
 - Changing the source file automatically reloads the application.