Assignment 1	Project Summary
Course	Multimedia Technologies with Angular and TypeScript - 2020

Project author		
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Project name	Online ChatRoom

1. Short project description (Business needs and system features)

Online ChatRoom is a web chatroom where users can interact with each other using messages, images and emojis. You simply subscribe to a chatroom from a list with different chatrooms, and you can start talking to other people! You can send messages that other people can see, you can also see other people's profiles. You can switch between your subscribed servers.

- *Logged-In User* – Can subscribe and message in any chatroom
- *Admin* – Has access to all chatrooms, can see and delete messages, view/create users and can also ban users from chatrooms.

2. Main Use Cases / Scenarios

Use case name	Brief Descriptions	Actors Involved
2.1. Register	The User can register, providing a username and password	Anonymous users
2.2. Login	The User can login using their username and password	All users
2.3. Change User Data	The User can view and edit their personal data.	
2.4. View Top Users of The Day	The User can see the top 5 most active users for the day.	
2.5. Browse Servers	The User can browse servers from a menu of different servers	All users
2.6. Subscribe to Servers	The User can subscribe to servers to see their messages and other people that are subscribed to it as well	All users
2.7. Unsubscribe from a server	The User can unsubscribe from a subscribed server	All users
2.8. Send and Read Messages	The User can send and read messages in a subscribed server	All users

2.9. Edit Message and Delete Message	The User that sent a message, can decide to edit it after sending it	All users
2.10. Search messages in a Server	The User can search for messages in the server	All users
2.11. View Other User’s Profile	The User can see other users’ profiles with information, such as username, subscribed servers, etc.	All users
2.12. Mange Users	The Admin User can manage all user’s data. Admin can also delete messages from other users	Administrator

3. Main Views (SPA Frontend)

View name	**Brief Descriptions**	**URI**
3.1. Login	Login page	/login
3.2. Register	Register page	/register
3.3. Home	Presents your chat dashboard with all of your subscribed servers on the left By default, the first server from your subscribed list is selected	/
3.4. Top Users	Presents a list with a ranking of all the users by their number of messages. (Use datatables.js?)	/top-users
3.5. Servers	Presents a list with all the servers from which you can subscribe to.	/servers
3.6. Search	Presents the ability to search by given parameters, such as userid, text, and serverid.	/search
3.7. About	Presents a page with the information about the website	/about
3.8. Users	Page available only to Administrators, where they can manage users	/users

4. API Resources (Node.js Backend)

View name	**Brief Descriptions**	**URI**
4.1. Users	GET and POST User Data. Accessible only for Administrators.	*/api/users*
4.2. User	GET, PUT and DELETE a User.	*/api/user/{userid}*
4.3. Messages	GET and POST Messages. All users can send messages. The messages have a sender id and server id.	*api/messages*
4.4. Search Messages	GET Messages from a user.	*api/messages/search?user={userid}*
4.5. Search Messages	GET Messages from a search term.	*api/messages/search?term={searchTerm}*

4.6. Search Messages	GET Messages from a server.	*api/messages/search?server={serverid}*
4.7. Search Messages	GET Messages from all search options.	*api/messages/search?server={serverid}&user={userid}&search={searchTerm}*
4.8. Message	GET and DELETE a message.	*api/message/{messageid}*
4.9. Servers	GET and POST Servers. Different servers have different messages and subscribed users. Only Admins can create new Servers.	*api/servers*
4.10. Server	GET and DELETE a Server. If DELETE is used, all messages connected to the server will be deleted as well.	*api/server/{serverid}*