Ionic Developer Exercise

We're excited to advance you to the coding challenge portion of our interview. If you have questions, please email nick@ionic.io

For this project, you will be using any language/framework of your choice to create a REST API for a chat room application. The requirements are as follows:

1. Users
   a. Users must have a unique username
   b. Do not worry about authentication for this exercise login with username is enough
2. Room
   a. Any user can create a new room
   b. Users can list rooms by most recently active
3. Messages
   a. Users can post messages in rooms
   b. Users can list the last 50 messages for a room
4. Deployment
   a. The app **does not** have to be deployed however there should be instructions on how to run it locally
   b. While the app doesn't need to be deployed please design it as if you were going to deploy it and be prepared to describe how you would deploy it to production including CI/CD, Cloud Provider and services and why you would choose those.
5. UI
   a. Please create a basic UI with the following
      i. Users can login & logout with username
      ii. Users can create rooms & see list of rooms
      iii. Users can view recent messages in rooms & post message to rooms
      iv. The UI doesn't have to be real time but be prepared to talk about how you might make it real time & the implications of your choices for deployment & scaling
      v. Using a SPA framework is encouraged but not strictly required. Be prepared to talk about why you chose the UI framework you used.

You may use any stack you choose to build this application but please be prepared to describe why you chose the language, framework, database, etc. Please focus first on meeting the requirements above as that is all that is necessary for this exercise. If you're feeling inspired you're welcome to make improvements or add additional features but make sure you've done the basics first. Be prepared to talk about how you might improve the app to help provide a better experience for users and all the choices you made.

Before submitting your source code, **keep in mind that we will be reviewing your submission not just for completeness, but for code quality as well. And we strongly suggest that you make it easy to start and run your application on any machine that has Docker.** When we meet next, we'll ask that you talk us through your code, design decisions, etc. and we'll probably have questions.

Feel free to ask us any questions you have that arise via email nick@ionic.io

Please submit a link to your GitHub repo where you store your code.

Thanks,
The Ionic Team