Task: Create a User Management System

We would like to see some code that you have written, that you are proud of, and that you feel demonstrates your curiosity, existing skills, and even areas you'd like to improve on.

We have designed a coding task that is intentionally vague and open-ended in its specification so that you have the opportunity to take it in almost any direction you wish. If you would like to use a framework you know well, no problem, or if you want to use some library you think is cool but haven't put to use before, that's no issue either and we'd love to learn about it!

Stories/Features

Here are some basic features that exist in most user management systems:
- I can see a list of existing users
- I can see a list of existing groups
- I can create users
- I can create groups
- I can assign users to a group they aren't already part of
- I can remove users from a group
- I can delete groups when they no longer have members
- I can delete users

Remember, we want to determine how experienced and passionate you are about frontend development. Here are some further ideas one could include, but please feel free to come up with your own!

- A "user detail page" where it is possible to see a list of all groups that a given user is in
- A "group detail page" where it is possible to see a list of all users in a given group
- Search functionality
- When a user is deleted, he is removed from all groups he belonged to
- A user cannot exist without having at least one group (think validation when creating a user)
- Input validation on the client-side
- Make it responsive!
- JS tests
- ES6 syntax!
- ESLint (with some custom rules)
- Offline capabilities
- Anything else you think it's cool!

Artifacts

1. Your completed project source files.
2. A list of expected API endpoints (and optionally JSON structures) your app may consume.
3. Instructions for running your project (a README.md is nice)

Timing

- Do not spend more than 4 hours
- Send us your completed project within a week if possible, otherwise let us know

Delivery

You can either:
- (Preferred) Deploy your project to github or other public repo and email us the link, or
- Zip your files and attach them to an email