Write an application to manage bike rentals

\* The application must be React-based

\* Users must be able to create an account and log in

\* Include at least 2 user roles: Manager and User

\* Each bike will have the following information in the profile: Model, Photo, Color, Weight, Location and a checkbox indicating if the bike is available for rental or not

Managers can:

\* Create, Read, Edit, and Delete Bikes (including Photo upload)

\* Create, Read, Edit, and Delete Users and Managers

\* See all the users who reserved a bike, and the period of time they did it

\* See all the bikes reserved by a user, and the period of time they did it

Users can:

\* See a list of all available bikes for some specific dates

\* Filter by color, model, weight, location or rate averages

\* Display the bikes in a map, according to the location

\* Reserve a bike for a specific period of time

\* Rate the bikes with a score 1 to 5

\* Cancel a reservation

You may use Firebase or similar services for the back-end.

## Q&A:

* For the final project can we chose between implementing a React or a React Native project?
  + The primary focus of this academy is to learn React, not React Native. Therefore, I would suggest using React for the final project .
* Is using redux a must in the project or we could use Mobx?
  + The videos use redux but you do not have to, Mobx is fine
* Can I use Ruby on Rails for backend side, deployed on my local? Or the project should work globally? / Is a local CRUD api OK?
  + It's ok if the project is only available in your local machine during the interview. However, a clear documentation, in general, will be appreciated.
* Location is a GPS coordinate? Or should we set some pickup centers from which the client can pickup the bikes (and this centers with GPS coordinates?
  + Location can be internally stored as a GPS coordinate. When selecting a location from the UI, you can use a maps API to get those coordinates from a friendly location string. It's not necessary to define pickup centers in this project.
* About the period of rental time are we going to assume full days, or it could be hours/minutes?
  + It's ok to assume full days.
* Can we use Microsoft fabric for our ui elements?
  + Using Microsoft Fabric React components should be fine.
* How should we store colors? I though about hex value, but then filtering would be rather not possible... Should we create some predefined list like 'red', 'yellow', 'green' etc.?
  + Good question! You can define a fixed list of colors or you can allow any hex values and, in the filters, filter by exact hex value.