Task: React Bike Rentals

Estimated time/effort: **10-20 hours**
Expected delivery time: **7 days**

Task scope and expectations

- The purpose of this task is to build a functional real-life application with all listed requirements.
- What we want to see is how you will implement some real-life functionalities by paying attention to details and following good development practices.
- We want to see you understand how to set up a proper project infrastructure, show knowledge of simple problem solving, and knowledge of using your preferred frameworks and libraries.
- Instead of spending a lot of time on providing a custom UI, please rather ensure the functionality is properly done.

Task details

Write an application to manage bike rentals:
- The application must be React-based.
- Include at least 2 user roles: Manager and User.
- Users must be able to create an account and log in.
- Each bike will have the following information in the profile:
  - Model.
  - Color.
  - Location.
  - Rating.
  - A checkbox indicating if the bike is available for rental or not.

Managers can:
- Create, Read, Edit, and Delete Bikes.
- 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 model, color, location, or rate averages.
- Reserve a bike for a specific period of time.
- Rate the bikes with a score of 1 to 5.
- Cancel a reservation.

Other notes:
You may use Firebase or similar services for the back-end. However, if you opt for this method, you should be able to explain how a REST API work

Milestones and task delivery

- The deadline to submit your completed project is **1 week from the moment you received the project requirements**.
- It means the project code must be submitted within 1 week from the moment that was delivered to you by email.
- If you schedule your final interview after the 1-week deadline, make sure to submit your completed project and all code to the private repository before the deadline.
- Everything that is submitted after the deadline will not be taken into consideration.
- Please **do not** commit any code at least 6 hours **before** the meeting time so that it can be reviewed. Anything that is submitted after this time will not be taken into consideration.
- Please join the meeting room for this final interview on time. If you miss your interview without providing any prior notice, your application may be paused for six months.