



## React Frontend Developer – Case study

We are happy that you have come this far, it means that we got a good impression of you in the previous interviews, and that we are curious about learning more about you

### What is our goal with the case study?

- We want to understand who you are as a programmer
- The implementation is the foundation of our technical interview
  - We will ask you to go through it with us
  - We will ask questions about it
- We expect you to spend about 3-6 hours on the implementation

### Case study

This is based on a real situation at Qred, it feels more real to talk about the types of things you would be given responsibility for than to talk in the hypothetical. The scenario is as follows:

1. Users needs to be able to navigate to a profile page
2. Some API endpoint should be called to fetch the user's information
3. Fields are populated with data fetched from the API
4. User should be able change the information
5. Clicking save button should send the data back to same endpoint
6. Some fields should be validated before sending data and in case of invalid format some error messages should be shown explaining the problem




As a “React Developer” applicant you have probably seen these challenges before.

Based on the requirements listed above, please prepare a working code sample using React considering the following concepts:

1. Take some consideration to think about how you would architect the application in terms of maximum code reuse.
2. At Qred we rely heavily on Redux as our primary state management tool. Consider using Redux in order to save the user's information.
3. Think about the possibility of API failure and other errors and how to handle it if it happens.
4. Feel free to prepare on techniques, processes, mindsets and implementation patterns you would rely on to address the above
5. Feel free to use the CSS solution of your choice in your implementation.
6. Appendix 1 shows a proposed design for how the profile page should look. It does not have to be pixel perfect
7. Appendix 2 shows a proposed design for how it should look when a field is invalid.
8. Use the following endpoints to fetch the data:  
GET: <https://jsonplaceholder.typicode.com/users> to see the list of users.  
GET: [https://jsonplaceholder.typicode.com/users/\\${id}](https://jsonplaceholder.typicode.com/users/${id}) to get one user by id.  
PUT: [https://jsonplaceholder.typicode.com/users/\\${id}](https://jsonplaceholder.typicode.com/users/${id}) to update one user by id.
9. Optional: Add functionality to choose and edit a specific user by id.
  - a. Give consideration on feedback to the user and how to improve the user experience.
  - b. Assume you have unlimited budget, complete control of direction and implementation, with backing from senior management.
  - c. Think on Qreds values
    - i. Transparency
    - ii. Passion
    - iii. Innovation



## Appendix 1



### Edit your profile

**STREET NAME**

**POSTAL CODE**

**CITY**


**EMAIL**

**PHONE**

Save changes



## Appendix 2



### Edit your profile

**STREET NAME**

**POSTAL CODE**

**CITY**

**EMAIL**

Please type in a valid email address.

**PHONE**

Save changes