Effective React Testing

React Testing Library version

By: David Sánchez - @d4vsanchez

How can we **increase** our **confidence** in the tests?

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Enzyme encourages you to test implementation details

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Testing implementation details
IS WRONG

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Testing implementation details **is wrong**

Can break when you **refactor** your application code. *(False negatives)*

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Testing implementation details **is wrong**

May not break when you break application code. *(False positives)*

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Demo time:

https://github.com/d4vsanchez/effective-testing

Move to the *enzyme* tag:

`git checkout enzyme`

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Who are the **users** of my application and how will they interact with my components?

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- Uses a browser

- Interacts with my components using a mouse, a keyboard, etc.

- See the information on the screen after it has been processed.
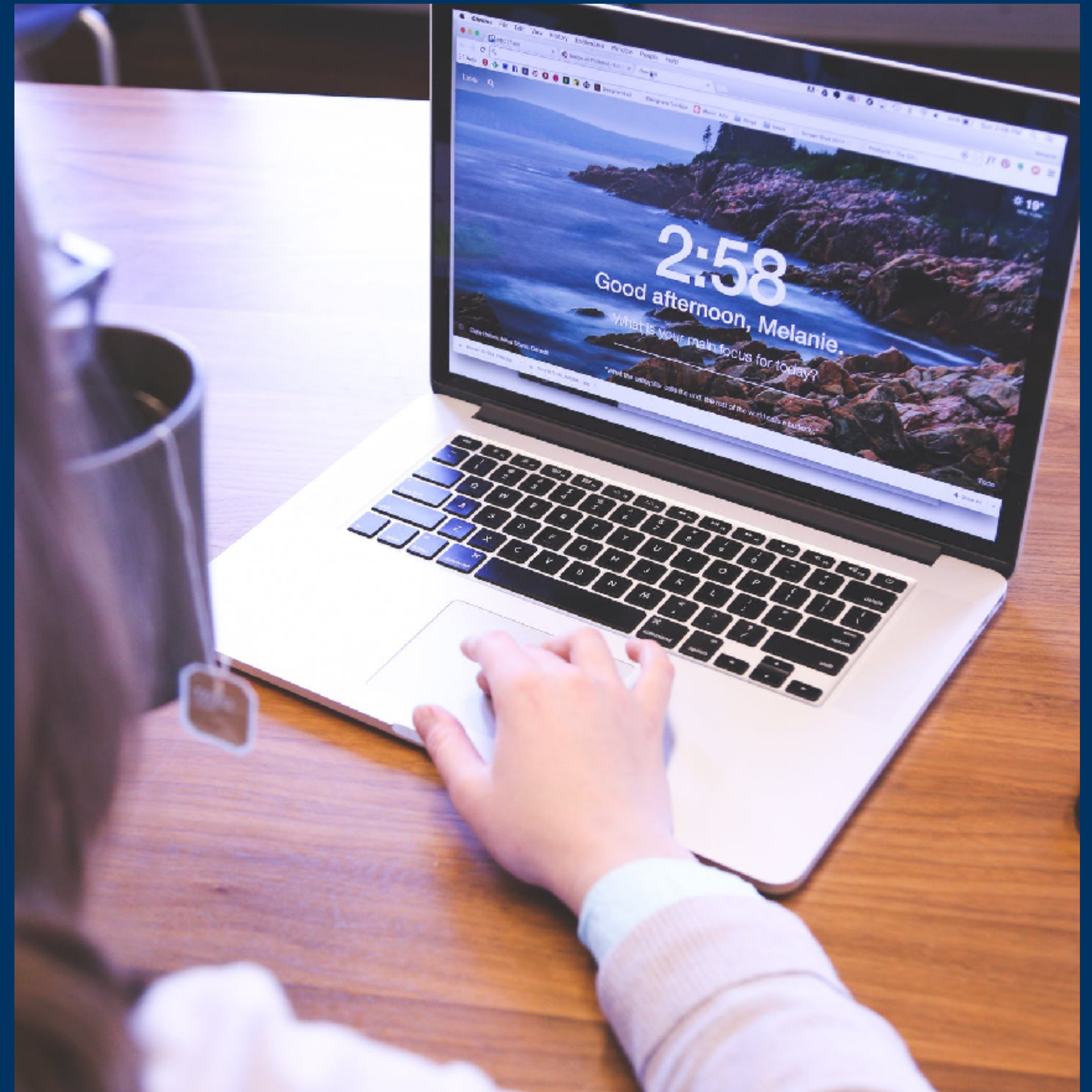
Create the tests as if you were that user.

Do not create a new type of user just to do tests.

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Let's do implementation detail free testing

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Demo time:

https://github.com/d4vsanchez/effective-testing

Move to the *test-renderer* tag:

```
git checkout test-renderer
```

React Testing Library save us time by abstracting the boilerplate code

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Demo time:

https://github.com/d4vsanchez/effective-testing

Move to the *rtl* tag:

```
git checkout rtl
```

Testing
Checklist

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1. What part of the codebase would be really bad if it broke?

2. Narrow the test cases to a unit or a few units of code.

3. Look at the code and consider who the "users" are.

4. Write down a list for that user to manually test that code to make sure it's not broken. And then turn it into automated tests.

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Good tests increases confidence level.

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References

- Testing Implementation Details - Kent C. Dodds - https://kentcdodds.com/blog/testing-implementation-details/

- Avoid the test user - Kent C. Dodds - https://kentcdodds.com/blog/avoid-the-test-user

- React Test Renderer - React.js - https://reactjs.org/docs/test-renderer.html

- Guiding Principles - React Testing Library - https://testing-library.com/docs/guiding-principles

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