Testing Contextual Slot Specs

In this lesson, we'll see what Contextual Slot Specs are and how to test them.

WE'LL COVER THE FOLLOWING

What is the Need?

We've tested how and where the slots render, and that's probably all we need. However, it doesn't end there. If you pass component instances as slots, just as we're doing in the default slot with Message, you can test the functionality related to it.

Be careful of what you test here; this is probably something you don't need to do in most cases since the functional tests of a component should belong to that component test. When talking about testing slots functionality, we test how a slot must behave **in the context of the component where that slot is used**, and that's not very common. Normally we just pass the slot and forget about it. So don't get too stuck to the following example: its only purpose is to demonstrate how the tool works.

Let's say that, for whatever reason, in the context of the `MessageList` component, all the `Message` components must have a length higher than 5. We can test that like:

```
it("Message length is higher than 5", () => {
  const messages = cmp.findAll(Message);
  messages.wrappers.forEach(c => {
    expect(c.vm.message.length).toBeGreaterThan(5);
  });
});
```

findAll returns an object containing an array of wrappers where we can access its vm component instance property. This test will fail because the message has a length of 3, so go to the beforeEach function and make it longer:

```
beforeEach(() => {
  const messageWrapper = {
    render(h) {
      return h(Message, { props: { message: "hey yo" } });
    }
  };
});
```

Then it should pass.

Wrapping Up

Testing slots is quite simple. Normally we'd like to test that they're placed and rendered as we want, so it is just like testing style and structure knowing how slots behave or can be mocked. You probably won't need to test slot functionality very often.

Keep in mind to test things only related to slots when you want to test slots, and think twice about whether what you're testing belongs to the slot test or the component test itself.

Let's test a running project of what we have done so far in the next lesson.