

✔ Congratulations! You passed!

Grade received 100% To pass 80% or higher

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1. Why is automated testing important? Select all that apply.

1 / 1 point

☒ It saves time to development teams.

✔ Correct

That's correct, development teams spend less time manually validating newly developed features.

☒ It reduces human error.

✔ Correct

That's correct, manual testing opens up the opportunity for humans to make mistakes.

☒ It offers a faster feedback cycle, bringing faster validation and helping the development team to detect problems or bugs early.

✔ Correct

That's correct, without test automation feedback for newly developed features can take a while.

2. What are some of the best practices when writing your automated tests? Select all that apply

1 / 1 point

☒ They should resemble the way your software is used.

✔ Correct

That's correct, the more your tests resemble the way your software is used, the more confidence they can give you.

☒ They should be maintainable in the long run.

✔ Correct

That's correct, in that way, changes in the implementation of the component, but not functionality, won't break your tests and slow you and your team down.

☐ Your tests need to be focused on the implementation details of your components.

3. Imagine you have a component that renders both an `input` tag and a `label` tag with the exact text `Comments`. Inside your test, you have the below piece of code:

1 / 1 point

```
1  const element = screen.getByLabelText(/Comments:/);
```

What would be the type of element returned by `getByLabelText`?

☐ The document object

☐ The `label` element

☒ The `input` element

✔ Correct

That's correct, the query looks for the `label` tag first, but it returns the `input` associated with it.

4. In a particular test that's been written for a form component, you encounter the below two lines of code. What kind of data would the `handleSubmit` variable represent?

1 / 1 point

```
1  const handleSubmit = jest.fn();
2  render(<FeedbackForm onSubmit={handleSubmit} />);
```

- ☐ A specific function jest provides to handle form submissions
- ☒ A mock function to track how is called by external code and thus explore the arguments passed in.
- ☐ A copy of the real function that's used in the parent component that renders the **FeedbackForm**.

✓ **Correct**

That's correct, **handleSubmit** is a special function called "a mock" that the jest library provides to track how it is called by external code.

5. What are some of the benefits of Continuous Integration (CI)? Select all that apply.

1 / 1 point

- ☒ Find bugs earlier and fix them faster.

✓ **Correct**

That's correct, the CI can run a suit of automated tests and check for failures, so developers are notified promptly.

- ☒ Deliver working software more often.

✓ **Correct**

That's correct, it provides a faster feedback look.

- ☐ Faster manual integrations.

- ☒ Improved developer productivity.

✓ **Correct**

That's correct, developers can focus on programming the features the business needs.