

## ✓ Congratulations! You passed!

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1. What is unit testing?

1 / 1 point

- ☒ Unit testing revolves around the idea of having separate, small pieces of code that are easy to test.
- ☐ Unit testing tries to imitate how a user might interact with your app.
- ☐ Unit testing is testing how parts of your system interact with other parts of our system.

✓ Correct

That's correct! Unit testing is focused on testing small, specific "units" of code.

2. When the following test executes, what will the test result be?

1 / 1 point

```
1
2 function subtract(a, b) {
3   return a - b;
4 }
5
6 expect(subtract(10, 4)).toBe(6);
7
```

- ☒ Success.
- ☐ Fail.

✓ Correct

That's correct! The function will return 6 and the expectation will succeed.

3. What is End-to-end testing (e2e)?

1 / 1 point

- ☐ End-to-end testing revolves around the idea of having separate, small pieces of code that are easy to test.
- ☒ End-to-end testing tries to imitate how a user might interact with your application.
- ☐ End-to-end testing is testing how parts of your system interact with other parts of our system.

✓ Correct

That's correct! End-to-end testing mimics how users will interact with your application.

4. What is Code Coverage?

1 / 1 point

- ☐ A measure of what percentage of your code has failing tests
- ☒ A measure of what percentage of your code is covered by tests.

✓ Correct

That's correct! Code coverage shows what percentage of your code is covered by tests and where more testing may be required.

5. Node.js can be used to build web application backends.

1 / 1 point

- ☒ true
- ☐ false

✓ Correct

That's correct! Node.js is a popular JavaScript runtime for building backends.

6. When the following test executes, what will the test result be?

1 / 1 point

```
1
2   function multiply(a, b) {
3     return a;
4   }
5
6   expect(multiply(2, 2)).toBe(4);
7
```

☐ Success.

☒ Fail.

☒ **Correct**

That's correct! The function will fail because it has a bug which returns only the `a` variable. Therefore, `2` is returned from the function which does not match the expectation.

7. Which command is used to install a Node package?

1 / 1 point

☐ package

☐ pkg

☐ node

☒ npm

☒ **Correct**

That's correct! The Node Package Manager (npm) is used to install packages.

8. Which file lists all your application's required node packages?

1 / 1 point

☐ node.json

☐ npm.json

☒ package.json

☐ pkg.json

☒ **Correct**

That's correct! package.json will store all the dependencies required for application.

9. A person on your team wants to help with testing. However, they are not a developer and cannot write code. What type of testing is most suited for them?

1 / 1 point

☐ Unit testing

☐ Integration testing

☒ End-to-end testing

☒ **Correct**

That's correct! End-to-end tests can be performed in a web browser without writing code. This is because the tests mimic how a user will interact with the application.

10. What is the recommended way to separate the code that you are testing from its related dependencies?

1 / 1 point

☒ Mocking

☐ module.exports

☐ End-to-end testing

☒ **Correct**

That's correct! Mocking allows developers to simulate the behaviour of dependent code during tests.