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Computer Programming Tools

Your score: **13** (↑13) Conversant

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DevOps

Your score: **20** (↑12) Conversant

Keep going! At a conversant level, you have familiarity with the vocabulary and are able to pass easy content.



1. What is an API?

1 / 1 point

- ☐ A framework which dictates the architecture of your program and controls the program flow
- ☒ Code that works with data and provides a mechanism for software to access resources from the back-end
- ☐ A version control system used to manage your code
- ☐ A practice for dev-ops teams enabling developers to deliver frequent changes reliably

✓ Correct

2. When a user tries to login to a website, he/she gets an authentication failure error. Who do you think can fix this error? (Select **all** that apply)

1 / 1 point

☒ Back-end Developer

✓ Correct

☐ Front-end Developer

☒ Full-stack Developer

✓ Correct

3. In addition to SQL, which tool can help you access databases?

1 / 1 point

- ☒ ORM
- ☐ npm
- ☐ pip
- ☐ CI/CD

✓ Correct

ORM (object-relational mapping) tools can be used to connect to a database and retrieve the correct data, and can hide some of the complexity of querying databases

4. Build automation can automate which of the following tasks? (Select **all** that apply)

1 / 1 point

☒ Packaging binary code

✓ Correct

☐ Compiling binary code into source code

☒ Downloading dependencies

✓ Correct

☒ Running tests and deployment to production systems

✓ Correct

5. A user has complained that the website is readable on desktop but not on mobile. Who can help solve this problem?

1 / 1 point

☒ Front-end Developer

☐ Back-end Developer

✓ Correct

6. Which of the following describe a **package manager**? (Select **all** that apply)

1 / 1 point

☐ Contains application files, instructions for installation, and metadata

☒ A way to distribute your pre-packaged application(s)

✓ Correct

☒ Takes care of finding, installing, maintaining or uninstalling software packages

✓ Correct

7. Which of the following adds interactivity and dynamic content to a website?

1 / 1 point

☐ Git

☐ CSS

☐ HTML

☒ JavaScript

✓ Correct

8. Which of these is an open-source server side platform built on the Google Chrome JavaScript engine and uses an asynchronous single threaded architecture that allows it to serve a very large number of concurrent connections?

1 / 1 point

☐ React JS

☒ Node.js

☐ Flask

☐ Angular

✓ Correct

Node.js is an open source server side platform built on the Google Chrome JavaScript engine. It uses an asynchronous single threaded architecture that allows it to serve a very large number of concurrent connections.

9. Which of the following frameworks and libraries are used for front-end? (Select **all** that apply)

1 / 1 point

☐ Express

☒ Angular

✓ Correct

Angular is a **front-end framework** that allows websites to render HTML pages quickly and efficiently. It has built-in tools for routing and form validation

☐ Node.js

☒ React.js

✓ Correct

React.js is a **front-end JavaScript library** that builds and renders components for a web page

☒ Vue.js

✓ Correct

Vue.js is a **front-end framework** focused on building user interfaces

10. Which of the following is **NOT** a required skill for a front-end developer?

1 / 1 point

☐ CSS

☒ Java

☐ HTML

☐ JavaScript

✓ Correct