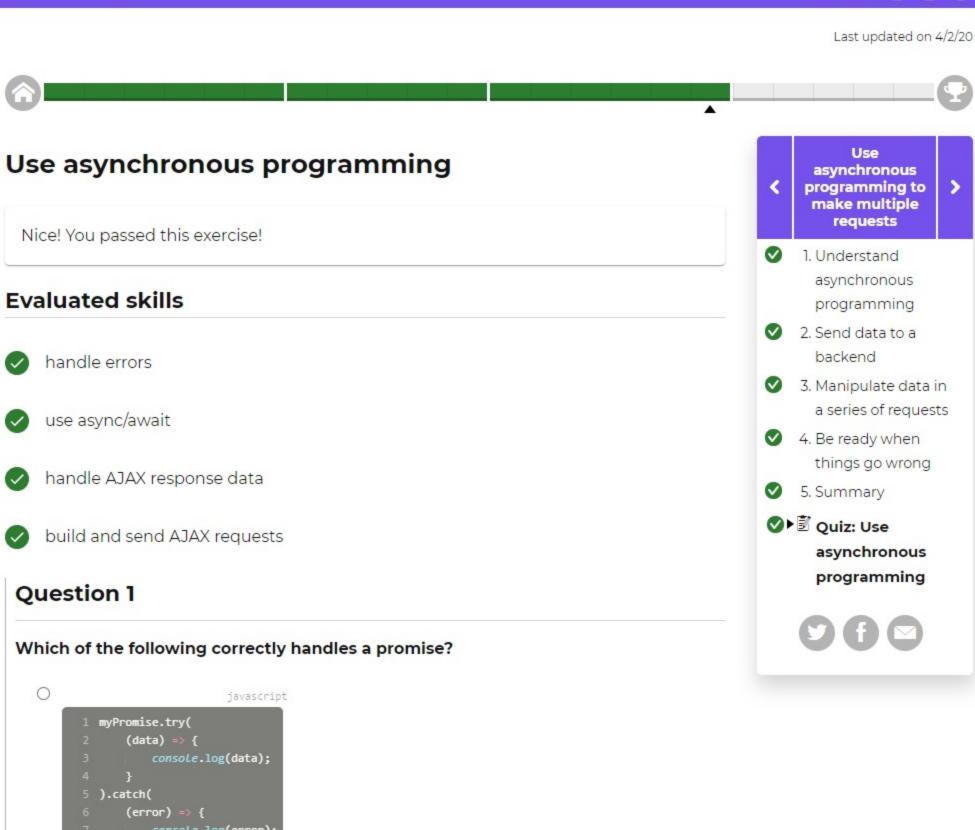
## Write JavaScript for the Web





console.log(error); **V** • javascript 1 myPromise.then( console.log(data); 5 ).catch( (error) => { console.log(error); 0 javascript 1 myPromise.then( console.log(data); 5 ).error( (error) => { console.log(error);

0 javascript myPromise.resolve( (data) => { console.log(data); 5 ).reject( (error) => { console.log(error); Using .then() and .catch allows us to react correctly to a promise when it resolves or rejects respectively. **Question 2** Which of the following describes the three states of a promise? Promise is started

```
    Promise is pending

    Promise is resolved

    Promise is implemented

    Promise is resolved

    Promise is complete

✓ ○

    Promise is pending

    Promise is resolved

    Promise is rejected

    Promise is resolved

    Promise is rejected

    Promise is complete

While the code within a promise is executing (API calls, timeouts etc), it is pending. If
the code completes correctly, the promise is resolved, and if it fails, it is rejected.
Question 3
Which of the following correctly creates a function which returns a promise?
V •
```

javascript

11 } 0 javascript

1 function makeMeAPromise() {

else {

});

if (success) {

return new Promise((resolve, reject) => {

resolve(successData);

reject(errorData);

```
1 function makeMeAPromise() {
              return new Promise(resolve, reject) =
                 if (success) {
                     resolve(successData);
                     reject(errorData);
  0
                                            javascript
         1 function makeMeAPromise() {
              return new Promise((resolve, reject) =
                  success.then(data).catch(error);
  0
                                            javascript
         1 function makeMeAPromise() {
              return new Promise((resolve, reject) =
                 if (success) {
                      return successData
                     return error;
The promise constructor takes an executor function with arguments | resolve | and
 reject as an argument.
Question 4
Which of the following correctly submits JSON data in a POST request to a server?
Assume that the server will respond with status 200 or 201 when the request is
successful.
  0
                                                                   javascript
```

postRequest.setRequestHeader('Content-Type', 'application/json'); 14 postRequest.send(); 0 javascript

if (postRequest.status === 200 || postRequest.status === 201) { console.log('Data successfully sent to server!');

console.log('Error status: ' + postRequest.status);

if (postRequest.readyState === 4) {

2 postRequest.open('POST', myData, 'http://mybackend.api');

```
1 Let postRequest = new XMLHttpRequest();
         2 postRequest.open('POST', 'http://mybackend.api');
         3 postRequest.onreadystatechange = () => {
              if (postRequest.readyState === 4) {
                  if (postRequest.status === 200 || postRequest.status === 201) {
                      console.log('Data successfully sent to server!');
                      console.log('Error status: ' + postRequest.status);
        postRequest.setRequestHeader('Content-Type', 'application/json');
         14 postRequest.send(myData);
V •
                                                                    javascript
         2 postRequest.open('POST', 'http://mybackend.api');
         3 postRequest.onreadystatechange = () => {
              if (postRequest.readyState === 4) {
                  if (postRequest.status === 200 || postRequest.status === 201) {
                      console.log('Data successfully sent to server!');
                 }
                      console.log('Error status: ' + postRequest.status);
           postRequest.setRequestHeader('Content-Type', 'application/json');
        14 postRequest.send(JSON.stringify(myData));
   0
                                                                    javascript
         1 Let postRequest = new XMLHttpRequest();
         2 postRequest.open('POST', 'http://mybackend.api');
         3 postRequest.onreadystatechange = () => {
              if (postRequest.readyState === 4) {
                  if (postRequest.status === 200 || postRequest.status === 201) {
                      console.log('Data successfully sent to server!');
                      console.log('Error status: ' + postRequest.status);
        13 postRequest.send(JSON.stringify(myData));
To send a POST request containing JSON data:
   1. Create a new XMLHttpRequest object and use its open() method to make it a
     POST request and give it a URL
   2. Set the onreadystatechange function to react to any data or errors returned
   3. Set the request's Content-Type header to application/json
   4. Send the "stringified" data with the send() method
Question 5
Consider the following function:
```

javascript

else { resolve(JSON.parse(request.response));

4 function makeARequest(verb, url, data) {

request.open(verb, url);

}

if (verb === 'POST') {

request.send();

else {

**✓** 

return new Promise((resolve, reject) => {

Let request = new XMLHttpRequest;

request.onreadystatechange = () => { if (request.readyState === 4) {

// build request object with function arguments

if (request.status !== 200) { reject(request.status);

request.send(JSON.stringify(data));

request.setRequestHeader('Content-Type', 'application/json');

```
});
  34 }
Which two of the following options are correct ways to use this function to send the
response from a GET request in a second POST request?
Careful, there are several correct answers.
✓ ✓
                                                                     javascript
         1 makeARequest('GET', 'http://backend.api').then(
               (data) => {
                   makeARequest('POST', 'http://backend.api', data).then(
                          console.log('Data posted successfully!');
                      }
                  ).catch(
                      (error) => {
                          console.log('An error occurred in the POST request!');
                          console.log(error);
                   );
               }
        14 ).catch(
                   console.log('An error occurred in the GET request!');
                   console.log(error);
        19 );
  javascript
         1 Let data = makeARequest('GET', 'http://backend.api');
         2 makeARequest('POST', 'http://backend.api', data);
                                                      javascript
         1 Let data = makeARequest('GET', 'http://backend.api');
```

```
Let data = await makeARequest('GET', 'http://backend.api');
                await makeARequest('POST', 'http://backend.api', data);
                console.log('Requests complete!');
              catch(error) {
                console.log('Error: server responded with status: ' + error);
        12 catch(error) {
           console.log('Error: server responded with status: ' + error);
        15 }
Because each request takes time, we need to work asynchronously, either using
 .then() and .catch() , or using async/await .
Question 6
What is missing from this code block?
   1 returnsAPromise(myData).then(
        (data) => {
            console.log('Hey I got my data!');
```

makeARequest('POST', 'http://backend.api', data);

1 async function doubleRequest() {

javascript

O A semicolon O A set of parentheses ✓ ● A .catch() block

console.log(data);

returned by returnsAPromise() is rejected?!

O A set of curly braces

6);

```
Question 7
Typically, what is the value of an expression placed after the await keyword?
  O A JavaScript object

✓ ○ A promise

  O A boolean
  O A function
The await keyword pauses the execution of an async function until the promise
placed after it resolves or rejects. If anything other than a promise is placed after
 await , it is converted to a resolved promise.
```

Of course, this block is missing a .catch() block! What will happen if the promise

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javascript

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