# 0x01.ES6 Promises

#### **aES6**g(/planning/me)

Weight: 1

旨

Projects(/projects/current)

**■** Project over - took place from Jun 25, 2024 6:00 AM to Jun 27, 2024 6:00 AM

An auto (CA) Review Reviews a una mechante (home directions / to review)

Evaluation quizzes(/dashboards/my current evaluation quizzes) In a nutshell...

Auto QA review: 24.0/26 mandatory & 4.0/4 optional

Altogether: 184.62%

Curriculums/https://dps.bb.gards/my\_curriculums/

Optional: 100.0%

Calculation: 92.31% + (92.31% \* 100.0%) == 184.62% Concepts(/concepts)



## Resources Discord(https://discord.com/app)

#### Read or watch:

- Promise (/rltoken/j\_0FTFbkTg42JMcAbNPOVQ)
- JavaScript Promise: An introduction (/rltoken/2Q2LzNFokcUwpA2u3FKG6Q)
- AWAY PAPEREN SYSTEM COW)







- Async (/rltoken/\_K0C7pgEjwalzU9RpwCb8g)
- Throw / Try (/rltoken/UTjDgvKk5l892Xslh0vqcQ)

#### Learning Objectives

the end of this project, you are expected to be able to explain to anyone (/rltoken/Z4xW7 BFaRcrHxfDySjKuQ), without the help of Google:



- Prioring (hing (/pulay raind/wheat)
- How to use the then, resolve, catch methods
- How to use every method of the Promise object



- Throughts(/projects/current)
- The await operator
- How to use an async function QA Reviews I can make(/corrections/to review)

Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes)

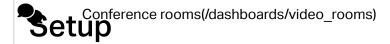
- All your files will be executed on Ubuntu 18.04 LTS using NodeJS 12.11.x
- Allowed editors: vi, vim, emacs, Visual Studio Code
- · All your files should end with a new line



- A README and file at the root of the folder of the project, is mandatory Curriculums (dashboards/my curriculums)
- Your code should use the js extension
- Your code will be tested using Jest and the command npm run test



- Youpodets//lcbesepitsed against lint using ESLint
  - All of your functions must be exported



#### **∓**nsta **\*\* N**\*\* 60 **\*\*** 9 **\*\*** 9 **\*\*** 12.11.x

(in your home directory):

Sandboxes(/user\_containers/current)

curl -sL https://deb.nodesource.com/setup\_12.x -o nodesource\_setup.sh sudo bash nodesource\_setup.sh

≠sudo andolsingstendoangustrify twols)

\$ node is -v Video on demand(/dashboards/videos)

\$ npm -v

6.11.3

## Peers(/users/peers) Install Jest, Babel, and ESLint

your project directory, install, Jest, Babel and ESList by using the supplied package.json and run Discord(https://discord.com/app) npm install.

### **Configuration Files**

Add the files below to your project directory My Profile(/users/my\_profile)

Click,to show/hide file contents babel.config.js Click to show/hide file contents util<sup>My Planning(/planning/me)</sup> Use when you get to tasks requiring uploadPhoto and createUser. Projects(/projects/current) Click to show/hide file contents ✓ es lanews I fan make(/corrections/to\_review) Click to show/hide file contents Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes) and... Don't forget to run \$ npm install when you have the package.json Curriculums(/dashboards/my\_curriculums) Response Data Format pload **Root o e petsul respectation** so with the format stat@nference rooms(/dashboards/video\_rooms) body: 'photo-profile-1', Servers(/servers) createUser returns a response with the format Sandboxes(/user\_containers/current) firstName: 'Guillaume', lastName: 'Salva' Tools(/dashboards/my\_tools) 用 Video on demand(/dashboards/videos) Peers(/users/peers) 0. Keep every promise you make and only make promises you can keep mandatory

package.json

Discord(https://discord.com/app)

Return a Promise using this prototype function getResponseFromAPI()

Score: 100.0% (Checks completed: 100.0%)

```
bob@dylan:~$ cat 0-main.js
  import getResponseFromAPI from "./0-promise.js";
   const response = getResponseFromAPI();
   console.log(response instanceof Promise);
          Home(/)
   bob@dylan:~$
   bob@dylan:~$ npm run dev 0-main.js
  true My Planning(/planning/me)
   bob@dylan:~$
          Projects(/projects/current)
 Repo:

    GiPA Beviewstlogn makel/corrections/to-review)

       Directory: 0x01-ES6_promise
        File: 0-promise is
Evaluation quizzes(/dashboards/my_current_evaluation_quizzes)
   Check submission
                        >_ Get a sandbox
                                            View results
Curriculums(/dashboards/my_curriculums)

1. Don't make a promise...if you know you can't keep it
                                                                                                     mandatory
Score: 900.9924 (Wheeks epts) leted: 100.0%)
Using the prototype below, return a promise . The parameter is a boolean . Conference rooms (dashboards/video_rooms)
   getFullResponseFromAPI(success)
          Servers(/servers)
 When the argument is:
          Sandboxes(/user_containers/current)
oresolve the promise by passing an object with 2 attributes:
                   ■ status: 200
          Tools(/dashboards/infly (686fs)
         false
            o reject the promise with an error object with the message The fake API is not working
H
          Video op demand (/dashboards/videos)
 Try testing it out for yourself
          Peers(/users/peers)
0
          Discord(https://discord.com/app)
```

```
bob@dylan:~$ cat 1-main.js
  import getFullResponseFromAPI from './1-promise';
   console.log(getFullResponseFromAPI(true));
   console.log(getFullResponseFromAPI(false));
         Home(/)
   bob@dylan:~$
   bob@dylan:~$ npm run dev 1-main.js
  PromisMyPlamainan(/pdannzinan/man)dy: 'Success' } }
   Promise {
     <rejected> Error: The fake API is not working currently
        . Projects(/projects/current)
        . . .
   bob@dylan:~$
        QA Reviews I can make(/corrections/to_review)
 Repo:
         Evaluation quizzes(/dashboards/my current evaluation quizzes)
     • GitHub repository: alx-backend-javascript

    ■ Directory: 0x01-ES6_promise

     File: 1-promise.js
M
         Curriculums(/dashboards/my_curriculums)
   Check submission
                      >_ Get a sandbox
                                         View results
首
         Concepts(/concepts)
 2. Catch me if you can!
                                                                                            mandatory
         Conference rooms(/dashboards/video_rooms)
   Score: 100.0% (Checks completed: 100.0%)
 Servers(/servers)
Using the function prototype below
   function handleResponseFromAPI(promise)
Sandboxes(/user_containers/current)
 Append three handlers to the function:
      status: 200

    body: success
    Video on demand(/dashboards/videos)
    When the Promise rejects, return an empty Error object

    For every resolution, log Got a response from the API to the console

bob@dylan:~$ cat 2-main.js
import Hand teresponse-fromAPI from "./2-then";
   const promise = Promise.resolve();
mand Leries prolitations in discord conserve)
   bob@dylan:~$
   bob@dylan:~$ npm run dev 2-main.js
   Got a response from the API
   bob@dylan:~$
         My Profile(/users/my_profile)
```



```
function signUpUser(firstName, lastName) {
                    (/)
      That returns a resolved promise with this object:
                                         Home(/)
                       firstName: value,
                        lastName: value,
My Planning(/planning/me)
 🎔 bob@dyPranjeet$(/panojectse/ciumrejnst)
             import signUpUser from "./4-user-promise";
✓ conso QA Reviews nicological de la conso QA Reviews de la conso Q
            bob@dylan:~$
  🧖 bob@dxElvanuation ្រាប្រែដែរមិន(សែនអាចបានម៉ែងអាច់ទ្រិ_current_evaluation_quizzes)
            Promise { { firstName: 'Bob', lastName: 'Dylan' } }
            bob@dylan:~$
                                         Curriculums(/dashboards/my_curriculums)
      Repo:

    GitHub repository: alx-backend-javascript
Concepts(/concepts)

                            Directory: 0x01-ES6_promise
                      • File: 4-user-promise.js
                                         Conference rooms(/dashboards/video_rooms)
              Check submission
                                                                                                 >_ Get a sandbox
                                                                                                                                                                                    View results
                                         Servers(/servers)
                                                                                                                                                                                                                                                                                                                                                                                                                       mandatory
      5. Reject the promises
                                         Sandboxes(/user_containers/current)
              Score: 100.0% (Checks completed: 100.0%)
Write and exports horror my med to load Photo. It should accept one argument file Name (string).
      The function should return a Promise rejecting with an Error and the string $fileName cannot be
language of the control of the contr
            export default function uploadPhoto(filename) {
                                         Peers(/users/peers)
                                         Discord(https://discord.com/app)
```

```
bob@dylan:~$ cat 5-main.js
─_import uploadPhoto from './5-photo-reject';
   console.log(uploadPhoto('guillaume.jpg'));
mbob@d/Hame()
   bob@dylan:~$ npm run dev 5-main.js
   Promise {
      <re New Pearsnip of Molanging (medime. jpg cannot be processed
🎖 bob@dyPrajeets(/projects/current)
          QA Reviews I can make(/corrections/to review)
 Repo:
     • GitHub repository: alx-backend-javascript

    DiFectory: 0x01-ES6_promise

     • File: 5-photo-reject.js
Check submissibums (Adastebo and abovy_curricoule miss)
   . Handle multiple promises
Concepts(/concepts)
                                                                                                mandatory
   Score: 50.0% (Checks completed: 50.0%)
          Conference rooms(/dashboards/video_rooms)
 Import signUpUser from 4-user-promise.js and uploadPhoto from 5-photo-reject.js.
Tite an ያዊአለው የ(/ፍዋህ/የሮቹ) n named handle Profile Signup. It should accept three arguments
  firstName (string), lastName (string), and fileName (string). The function should call the two other
functions. When the promises are all settled it should return an array with the following structure: Sandboxes(/user_containers/current)
          Tools(/dashboards/my_tools
status: status_of_the_p
          value: value or error returned by the Promise
        <sup>}</sup>/Video on demand(/dashboards/videos)
田
      ]
bob@dylan:~$ cat, 6-main.js
Peers(/users/peers)
import handleProfileSignup from './6-final-user';
console.log(handleProfileSignup("Bob", "Dylan", "bob_dylan.jpg"));
Discord(https://discord.com/app)
   bob@dylan:~$
   bob@dylan:~$ npm run dev 6-main.js
   Promise { <pending> }
   bob@dylan:~$
          My Profile(/users/my_profile)
```

```
<u>R</u>epo:
     f/) GitHub repository: alx-backend-javascript

    Directory: 0x01-ES6_promise

       File: 6-final-user.js
         Home(/)
   Check submission
                      Mark submission
                                       >_ Get a sandbox
                                                         View results
         My Planning(/planning/me)
                                                                                          mandatory
 7. Load balancer
         Projects(/projects/current)
   Score: 100.0% (Checks completed: 100.0%)
         QA Reviews I can make(/corrections/to_review)
 Write and export a function named loadBalancer. It should accept two arguments chinaDownload
 (Promise) and USDownload (Promise).
         Evaluation quizzes(/dashboards/my current evaluation quizzes)
 The function should return the value returned by the promise that resolved the first.
   export default function loadBalancer(chinaDownload, USDownload) {
         Curriculums(/dashboards/my_curriculums)
bob@dydancests(Atonceptin js
   import loadBalancer from "./7-load_balancer";
 const cksuccess = 'Downloading from FR is faster';
const frsuccess = 'Downloading from FR is faster';
const promiseUK = new Promise(function(resolve, reject) {
        setTimeout(resolve, 100, ukSuccess);
   });
  Sandboxes(/user_containers/current)
const promiseUKSlow = new Promise(function(resolve, reject) {
        setTimeout(resolve, 400, ukSuccess);
 ; ( ر
         Tools(/dashboards/my tools)
   const promiseFR = new Promise(function(resolve, reject) {
        setTimeout(resolve, 200, frSuccess);
Video on demand(/dashboards/videos)
B<sub>});</sub>
   const test = async () => {
       console.log(await loadBalancer(promiseUK, promiseFR));
       copsers (promise UKSlow, promise FR));
test ( biscord(https://discord.com/app)
   bob@dylan:~$
   bob@dylan:~$ npm run dev 7-main.js
   Downloading from UK is faster
   Downloading from FR is faster
```



Score: 100.0% (Checks completed: 100.0%) write a function named guardrail that will accept one argument mathFunction (Function). This function should create and return an array named gueue. My Planning(/planning/me) When the mathFunction function is executed, the value returned by the function should be appended to the queue. If this function throws an error, the error message should be appended to the queue. In 🗣 very ca**Beothet has staget s***k***camena**)il was processed should be added to the queue. Example: QA Reviews I can make(/corrections/to review) 1000, 'Guardrail was processed' Evaluation quizzes(/dashbdards/my\_current\_evaluation\_quizzes) bob@dylan:~\$ cat 9-main.js import divideFunction from '.78-try'; console.log(guardrail(() => { return divideFunction(10, 2)}));
Concepts/concepts/
console.log(guardrail(() => { return divideFunction(10, 0)})); bob@dylan:~\$ Conference rooms(/dashboards/video\_rooms) bob@dylan:~\$ npm run dev 9-main.js [ 5, 'Guardrail was processed' ] [ 'Error: cannot divide by 0', 'Guardrail was processed' ] Servers(/servers) Sandboxes(/user\_containers/current) Repo: GitHub repository: alx-backend-javascript Tools(/dashboards/my\_tools) Directory: 0x01-ES6\_promise • File: 9-try.js 田 Video on demand(/dashboards/videos) Check submission >\_ Get a sandbox View results #advanced Awaite er Asystecs/peers) Score: 100.0% (*Checks completed: 100.0%*)
Discord(https://discord.com/app) Import uploadPhoto and createUser from utils.js Write an async function named asyncUploadUser that will call these two functions and return an object

mandatory

Throw an error

with the following format:

```
photo: response_from_uploadPhoto_function,
               (M)ser: response_from_createUser_function,
none of the async function fails, return an empty object. Example:
                photo: null,
                 user: null,
                             Projects(/projects/current)
         bob@dylan:~$ cat 100-main.js
  ✓importQAAevielwisdaaldaenake(/oorr/ections/tovaret/igw)
         const test = async () => {
                       C EValuated H quiz zero (idas has boar les in a gold to the continuous contin
                       console.log(value);
         };
         test();
Curriculums(/dashboards/my_curriculums)
         bob@dylan:~$
         bob@dylan:~$ npm run dev 100-main.js
 Concepts(/concepts)
                photo: { status: 200, body: 'photo-profile-1' },
                user: { firstName: 'Guillaume', lastName: 'Salva' }
                             Conference rooms(/dashboards/video_rooms)
         bob@dylan:~$
                             Servers(/servers)
    Repo:
• Giffand hexes (tuser-acontainers (gurrant) cript
                       Directory: 0x01-ES6_promise
                   File: 100-await js
Tools(/dashboards/my_tools)
```

Peers(/users/peers)

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Discord(https://discord.com/app)

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