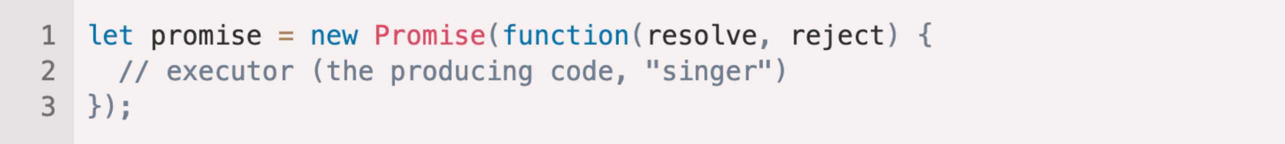
TD 6: Promise, Async/Await

This TD is for you to practice the javascript callback management: Promise and Async/Await.

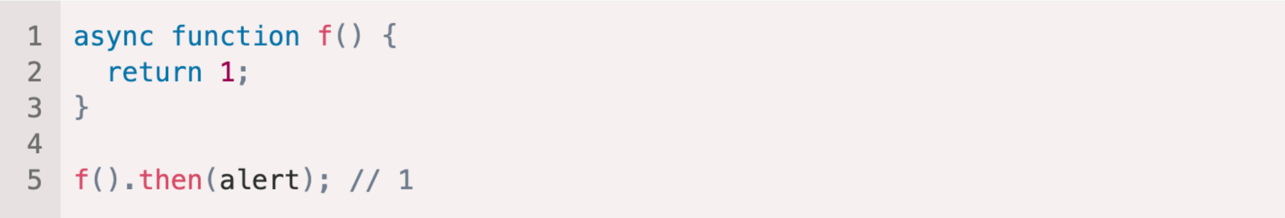
Here is the syntax to create a new promise where you can resolve or reject upon promise is executed.



```
let promise = new Promise(function(resolve, reject) {
  // executor (the producing code, "singer")
});
```

Once a promised is created, its status is started with **pending** and changed later on to **rejected** or **fulfilled** according to the task that promise runs.

Async/Await is another way of working with Promise. Just add a keyword “**Async**" in-front of a function, that function will return a **promise** instead of result.



```
async function f() {
  return 1;
}

f().then(alert); // 1
```

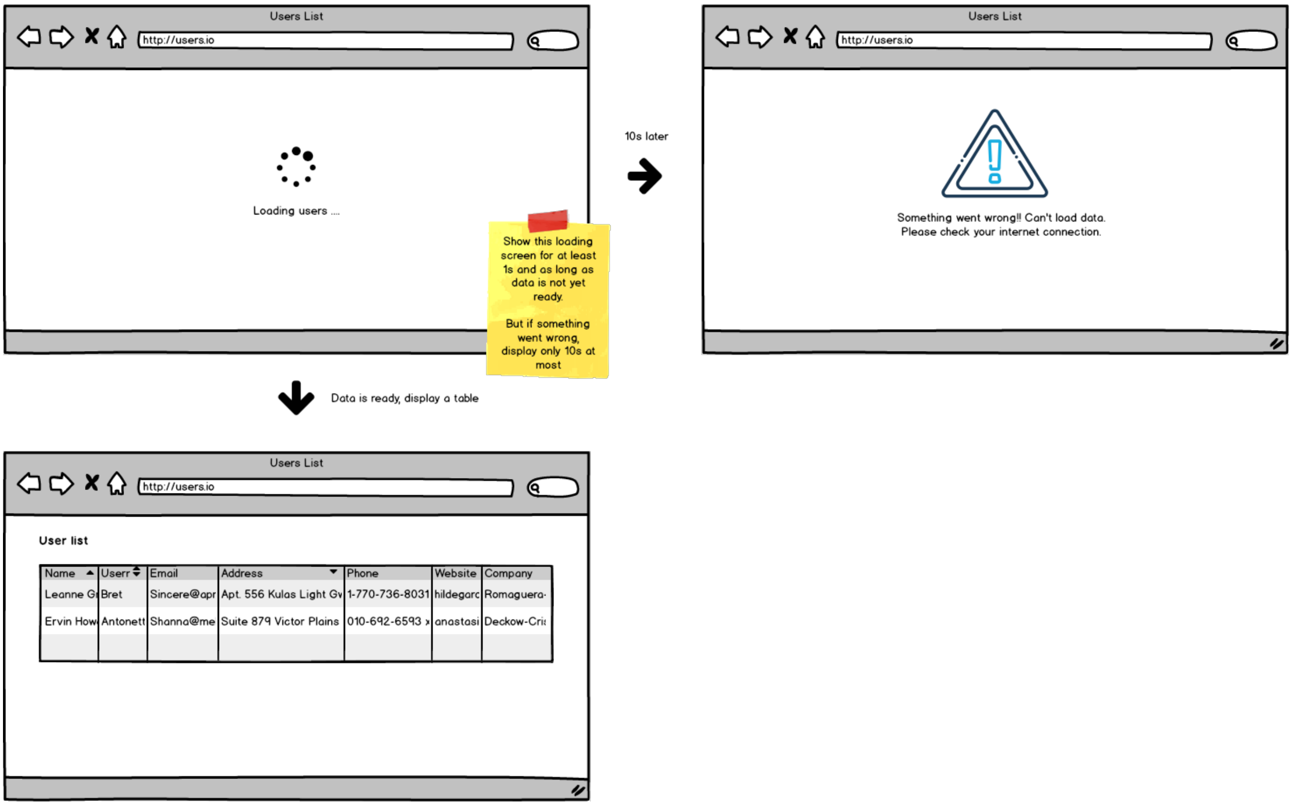
Await in the other hand, can only be used in Async function and with a promise.

Exercises

1. Create promise to say “Hello World!” After 5 seconds.
2. You will have 5 promises. Each promise is used to return any random message after some time. Write a code to return a message “All tasks are ready!” after those 5 promises are executed.
3. Redo the exercise 1, but by using asynchronous function.
4. With axios, call the following apis all at once:
    - https://jsonplaceholder.typicode.com/posts
    - https://jsonplaceholder.typicode.com/comments
    - https://jsonplaceholder.typicode.com/photos

   Display "load is ready" when those 3 apis are loaded.

5. Build a simple user list page by using the fake api: https://jsonplaceholder.typicode.com/users and Axios or Fetch, create a user list page.



Users List

http://users.io

Loading users ....

Show this loading screen for at least 1s and as long as data is not yet ready.

But if something went wrong, display only 10s at most

10s later

Users List

http://users.io

Something went wrong!! Can't load data.
Please check your internet connection.

Data is ready, display a table

Users List

http://users.io

User list

Name ▲	Userr ⬍	Email	Address ▼	Phone	Website	Company
Leanne Gr	Bret	Sincere@apr	Apt. 556 Kulas Light Gv	1-770-736-8031	hildegard	Romaguera-
Ervin Howe	Antonett	Shanna@mel	Suite 879 Victor Plains	010-692-6593 x	anastasi	Deckow-Cris