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**Activity 4: Asynchrony** 

Curs	23/24	Grup	S2P	Data Iliurament	3/11 - 23:55
Mòdul	Interfaces Development				
Títol	Working with asynchrony in Javascript				

Tipus de treball	Individual	

#### **Guidelines**

Solve these 8 exercises in a single JS file. Keep the main function names (in italics) and Include an usage example for them.

#### 1. Callback Basics

Create a function delayWithCallback() that receives a string message and a callback. The function executes the callback after 2 seconds and returns a String object. The callback prints the message to the console.

#### 2. Promise Practice

Write a function *promiseWithDelay()* that returns a promise. The promise should resolve with the value "Success" after a 3-second delay.

#### 3. Chaining Promises

Create a series of promises that execute one after the other. The first promise should resolve with "First," the second with "Second," and the third with "Third." Hint: .then() method returns a new promise object that can be used for chaining.

### 4. Promise Error Handling

Build a promise using the function <code>simulateNetworkRequest()</code> that simulates a network request. It should resolve with "Data received" after 2 seconds, but reject with an error message "Request failed" after 3 seconds.

# 5. Parallel Promises

Write a function that takes an array of URLs and returns an array of promises that fetch data from those URLs using fetch(). Use Promise.all to work with the array of promises and wait for all requests to complete.

```
Can use this URLs: const urls =
```

['https://jsonplaceholder.typicode.com/posts/1','https://jsonplaceholder.typicode.com/posts/2','https://jsonplaceholder.typicode.com/posts/3'];



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# 6. Async-Await Basics

Create an async function asyncWithAwait() that awaits a promise that resolves with "Hello World!" after a 2-second delay. Log the result to the console.

# 7. Async data request

Implement a function fetchDataAndPrint that uses async/await to fetch data from a URL and prints the response to the console. Do nothing if the promise is rejected.

### 8. Async-Await Error Handling

Write an async function asyncWithErrorHandling that awaits a promise. The promise should reject with an error message "Promise rejected." Catch the error using a try-catch block and log the error message.

#### **Evaluation and Qualification criteria**

Each correct exercise adds 1 point.

This activity corresponds to a 5% of the practical part.