

## **Summary - W01 Prepare: Learning Activities**

React is a JS library for building interactive user interfaces, that is it provides useful functions (API) to build the interface. It contains reusable snippets of code that perform tasks on your behalf - in this case, updating the user interface.

Next.js is a React framework that provides building blocks for building apps. It handles the tools and configuration required for React.

### **What is the DOM?**

The document object model is a data representation of the objects of HTML elements, its structure has hierarchical levels and there is a dependency relationship between parent elements with child elements, with the DOM it is possible to manipulate the HTML elements.

### **What is the difference between Imperative vs Declarative Programming - Think about the difference between step-by-step instructions on how to make a pizza vs just ordering a pizza.**

In the imperative programming it is necessary to say exactly what should be done, what order and how each step of the process is performed, in the case of pizza the imperative programming could be: take the dough, spread the dough, add the sauce, put the cheese and bake in the oven.

In declarative programming is just inform what you want without worrying about the details of how it will be done. In the case of pizza is just to make the order for the pizzeria informing what flavor of the pizza and the pizzeria that deals with the execution of details.

### **What is JSX - the syntax extension for JavaScript?**

It is a syntax extension for JS.

### **What is the Babel interpreter?**

Browsers don't understand the JSX extension, so it needs a compiler, and that compiler is Babel which turns JSX into regular JS.