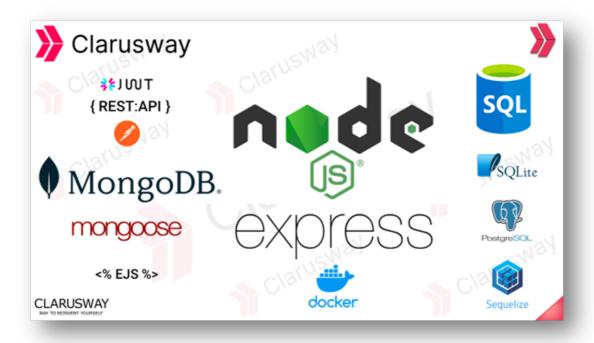
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### Clarusway



# Backend Teamwork -2-

## **Teamwork**

Subject: OOP and Nodejs

### Learning Goals

- Having knowledge about backend and nodejs.
- Understand how real-life entities/objects can be transferred to the computer environment.

### Introduction

As developers, we should also be able to express what we know. This study was prepared to support this purpose. Enjoy your work.

### Practice Using the IDE in Lesson

We will use the VSCode you are familiar with. At the same time, we need to install Nodejs on our computer.

### Lets start



- 1. In the table below specifies the key differences between a front-end and back-end development. Indicate at the beginning of each item whether it is suitable for the front end or the back end.
- .....f...includes everything that attributes to the visual aspects of a web application.
- .....refers to the server-side of an application.
- ...... technologies are HTML, CSS, Bootstrap, jQuery, JavaScript, AngularJS, and React.js.
- .........generally includes a web server that communicates with the database to serve the users' requests.
- ......some framework examples are AngularJS, React.js, jQuery, Sass, etc.
- ...............consists of everything that happens behind the scenes and users cannot see and interact with.
- .....is the part of a web application where users can see and interact.
- .....technologies are Java, PHP, Python, C++, Node.js, etc.
- ......some framework examples are Express, Django, Rails, Laravel, Spring, etc.
  - 2. Fill-in-the-Blank JavaScript Questions

JavaScript is primarily used for creating dynamic behavior in web pages.

ison.stringfy

method is used to convert a JavaScript object into a JSON string.

setTimeout

In JavaScript, \_\_\_\_\_\_ is a function that calls another function after a specified number of milliseconds.

The <u>let</u> keyword is used to declare a variable that can be reassigned.

date is a JavaScript object used for handling dates and times.

high-order

A \_\_\_\_\_\_ is a function that takes another function as an argument and/or returns a function as a result.

The <u>push</u> method is used to add elements to the end of an array in JavaScript.

In JavaScript, parsing the process of converting a string into a number.

The <u>new</u> keyword is used to create a new instance of an object in JavaScript.

JavaScript \_\_node. s runtime environment that allows executing JavaScript code server-side.



- 3. What is Nodejs? What can we do with Nodejs? Why use Nodejs?
- 4. Define a class named "Animal". This class should have a constructor function that takes a "species" parameter. You can learn the species of the object with a method called "get\_species".

Define a class named "Dog" derived from the Animal class. This class should have a private property named "name". It should have a constructor that takes "species" and "name" parameters. You should be able to get



the name of the dog with a method called "get\_name". Additionally, the Dog class should have a method called "bark" that returns the string "Woof!"