

**ENGLISH COMPONENT – CYCLE 4 SESSION 3**

**INTRODUCTION TO BACKEND**

**WORKSHEET 4.3**

**Worksheet 4.3.1**

**A key could be a list of the answers to the questions in an exercise or test and many other things. Now Relate the pictures to one of the statements below.**

|  |  |
| --- | --- |
| **1** | **2** |
| **3** | **4** |

1. **\_\_3\_\_\_ a piece of metal that has been cut into a special shape and is used for opening or closing a lock, starting a car engine, etc.**
2. **\_\_2\_\_\_ any of the set of moving parts that you press with your fingers on a computer keyboard, or musical instrument.**
3. **\_\_4\_\_\_ a set of musical notes based on one particular note.**
4. **\_\_1\_\_\_ a list of the symbols used in a map or book with explanations of what they mean.**

**Worksheet 4.3.2**

**Vocabulary**

**Write down the synonyms, definitions or translations of the next words.**

* Layer**:capa-nivel:level/surface**
* On-the-fly**:sobre la marcha/something that is done when needed**
* [Scripts](https://techterms.com/definition/script)**:texts/guiones-series or lines of code-commands-instructions**
* Run**:ejecutar-execute,corer,start**
* [Encrypt](https://techterms.com/definition/encryption)**:encriptar,cifrar:encode/cypher/hide:ocultar**
* Decrypt**:descifrar/desencriptar:decode-figure out**
* Handle**:solve:resolver-manage/manejar-deal with /take care of: encargarse de algo**
* Full-stack development**:Desarrollo full stack (Desarrollo web completo)**
* Storing**:almacenar/almacenamiento-repository:repositorio**
* Update**:actualizer-refrescar-upgrade**

**Worksheet 4.3.3**

**Vocabulary Practice**

**Read carefully the definitions and match them to the right word.**

|  |  |  |
| --- | --- | --- |
| LAYER | **6** | Make a coded or unclear message intelligible. |
| UPDATE | **5** | Manage (a situation or problem). |
| STORE | **2** | The act of changing something to make it more modern/recent. |
| FULL-STACK DEVELOPMENT | **3** | Keep or accumulate (something). |
| HANDLE | **1** | Synonym of “level”. |
| DECRYPT | **7** | When information is converted into secret code. |
| ENCRYPT | **4** | Refers to the development of both front end and back end portions of an application. |
| RUN | **10** | While in motion or progress. |
| SCRIPT | **8** | To operate (on a computer or any other device). |
|  |  |  |
| ON-THE-FLY | **9** | A program or sequence of instructions that is interpreted or carried out by another program rather than by the computer processor. |

**Worksheet 4.3.4**

**Reading Strategy Comprehension.**

**Watch the following video about keywords complete the task below.**

1. What is a key word?

**\_its a repetitive word that describe the main content of a text**

**-index word-important relevant**

1. How can you locate keywords?

**\_get rid of irrevelant words, words of insignificant meaning**

1. What is the range of keywords we should use in order to get better results.

**\_2,3 or 4**

1. The more **\_\_\_unique\_\_\_\_\_\_\_\_\_** and specific the **\_\_\_\_better\_\_\_\_\_\_\_\_** .

**\_**

1. How many articles do you need to locate using your keywords?

**\_at least one good article**

**Worksheet 4.3.5**

**Reading**

**Read the text and select the key words as you read. After that, create a word cloud with the words you selected.**

**BACKEND**

In the computer world, the "backend" refers to any part of a [website](https://techterms.com/definition/website) or software [program](https://techterms.com/definition/program) that users do not see. It contrasts with the [frontend](https://techterms.com/definition/frontend), which refers to a program's or website's [user interface](https://techterms.com/definition/user_interface). In programming terminology, the backend is the "data access **layer**," while the frontend is the "presentation layer."

Most modern websites are [dynamic](https://techterms.com/definition/dynamicwebsite), meaning [webpage](https://techterms.com/definition/webpage) content is generated **on-the-fly**. A dynamic page contains one or more [**scripts**](https://techterms.com/definition/script) that **run** on the [web server](https://techterms.com/definition/web_server) each time the page is accessed.

These scripts generate the content of the page, which is sent to the user's [web browser](https://techterms.com/definition/web_browser). Everything that happens before the page is displayed in a web browser is part of the backend.

Examples of backend processes include:

* Processing an incoming webpage request
* Running a script ([php](https://techterms.com/definition/php), [asp](https://techterms.com/definition/asp), [jsp](https://techterms.com/definition/jsp), etc.)
* To generate [html](https://techterms.com/definition/html).
* Accessing data, such as an article, from a [database](https://techterms.com/definition/database).
* **Storing** or **updating** records in a database.
* [**encrypting**](https://techterms.com/definition/encryption) and **decrypting** data.
* **Handling** file [uploads](https://techterms.com/definition/upload) and [downloads](https://techterms.com/definition/download).

All of the examples above are server-side processes that run on the web server.

The backend and frontend work together to create the full user experience. Data generated in the backend is passed to the frontend and presented to the user. While some organizations have separate backend and frontend development teams, the line between the two layers is rarely black and white. Therefore, many [developers](https://techterms.com/definition/developer) write code for both the backend and frontend. This is known as **full-stack development**.

NOTE: Backend may also be written "back end" (as a noun) or "back-end" (as an adjective). For simplicity, "backend" (the closed compound word) has become an acceptable term for both.

**Worksheet 4.3.6**

**Wrap-up**

Create a word cloud using the key words from the text about backend.

****

<https://wordart.com/my-word-art>

Share your work with the class and explain your selection of keywords.

**Worksheet 4.3.7**

**Reading comprehension**

**Answer the following comprehension questions.**

1. Backend is the part of the software that … do not see.
   1. Users
   2. Developers
2. Frontend is a synonym of ….
   1. Data access layer
   2. User interface
3. If a website is dynamic, the content is generated …
   1. In the process
   2. In advance
4. Managing file download is part of the …
   1. Presentation layer
   2. Server-side process
5. For the programmers, there … a clear separation line between backend and frontend.
   1. Is
   2. Isn´t

**Worksheet 4.3.8**

**Self-Evaluation**

**Complete the following self-evaluation section.**

1. Entiendo qué es “backend”.

**Yes 😃 Maybe 😐 No 😟**

2. Entiendo en qué consiste la estrategia de “locating key words”.

**Yes 😃 Maybe 😐 No 😟**

3. La estrategia de “locating key words”me ayuda a identificar los conceptos principales en un texto.

**Yes 😃 Maybe 😐 No 😟**