

Information System

A. Look at icons below and identify the 5 components of Information System given below.

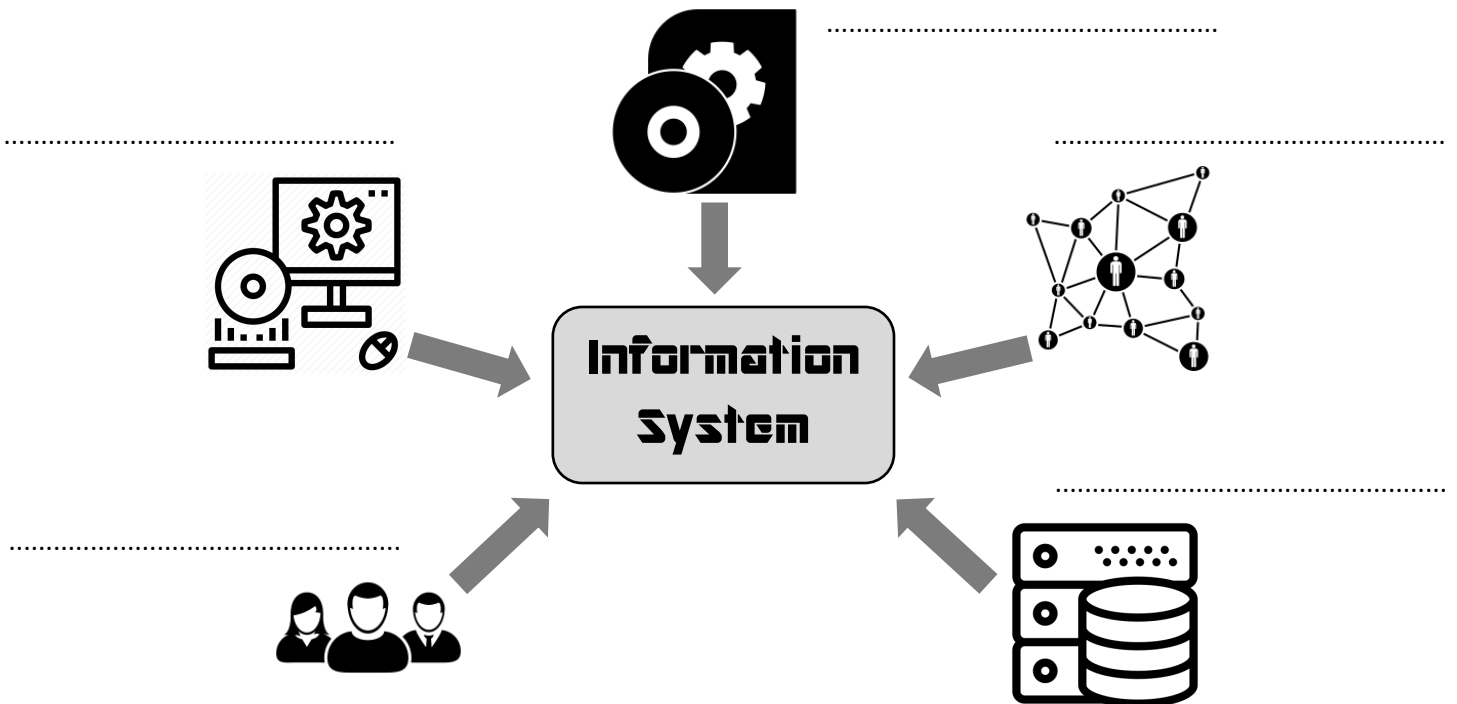
database

hardware

networks

software

human resources



B. In Portuguese, describe each component and their functions. Then discuss and write a definition for Information System.

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C. Now read the introduction to an article taken from <https://www.geeksforgeeks.org/components-of-information-system/> (Access: 10 sep. 2019) and answer the questions below in Portuguese.

1) How does the author define "Information System"?

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2) How similar is it to the definition you gave in activity B?

.....

3) How does it complement the definition you gave in activity B?

.....

4) According to the fragment, what is the objective of an information system?

.....

Components of Information System

An **Information system** is a combination of hardware and software and telecommunication networks that people build to collect, create and distribute useful data. It defines the flow of information within the system. The objective of an information system is to provide appropriate information to the user, to gather the data, processing of the data and communicate information to the user of the system. [...]

D. Read the fragment again and...

- 1) **Underline** the words similar to Portuguese.
- 2) **(Bracket)** the VERBS.
- 3) **[Square bracket]** all REFERENTS.
- 4) **(Circle)** 5 words that are NOT similar to Portuguese.
- 5) **Deduce** the MEANINGS of the words you circled.
- 6) **Complete** the glossary below.

GLOSSARY

- - construir
- - coletar
- - criar
- - distribuir
- - definir
- - fornecer
- - reunir
- - comunicar

descriptions

I
You
We
They
He
She
It

define
build
defines
builds

definitions

Qual a função dos verbos nesse fragmento?

Por que o verbo "*define*" vem acrescido de *s*?

Por que o verbo *build* não vem acrescido de *s*?

Quais os diferentes significados de *to* no fragmento?

E. Now read the rest of the article trying to associate each topic with their descriptions.

NETWORK

COMPUTER HARDWARE

DATABASE

HUMAN RESOURCES

COMPUTER SOFTWARE

Physical equipment used for input, output and processing. What hardware to use it depends upon the type and size of the organisation. It consists of input, an output device, operating system, processor, and media devices. This also includes computer peripheral devices.

Data are the raw facts and figures that are unorganised and later processed to generate information. Softwares are used for organising and serving data to the user, managing physical storage of media and virtual resources. As the hardware can't work without software the same as software needs data for processing. Data are managed using Database management system. Database software is used for efficient access for required data, and to manage knowledge bases.

It is associated with the manpower required to run and manage the system. People are the end user of the information system, end-user use information produced for their own purpose, the main purpose of the information system is to benefit the end user. The end user can be accountants, engineers, salespersons, customers, clerks, or managers etc. People are also responsible to develop and operate information systems. They include systems analysts, computer operators, programmers, and other clerical IS personnel, and managerial techniques.

The programs/application program used to control and coordinate the hardware components. It is used for analysing and processing of the data. These programs include a set of instructions used for processing information.

Software is further classified into 3 types:

1. System Software
2. Application Software
3. Procedures

- Networks resources refer to the telecommunication networks like the intranet, extranet and the internet.
- These resources facilitate the flow of information in the organisation.
- Networks consists of both the physicals devises such as networks cards, routers, hubs and cables and software such as operating systems, web servers, data servers and application servers.
- Telecommunications networks consist of computers, communications processors, and other devices interconnected by communications media and controlled by software.
- Networks include communication media, and Network Support.

- F. Read the article again and write T if the statement is true and F if it is false.
Correct the false statements and underline in the article where the information is.

- [] A escolha do hardware a ser utilizado depende do tipo e tamanho da organização.
- [] Softwares são usados para analisar e processar recursos humanos e são classificados em 3 tipos.
- [] Softwares de banco de dados são usados para gerenciar dados e acessar bases de conhecimento.
- [] Redes de computadores facilitam o fluxo de informação em uma empresa.
- [] O propósito principal de uma rede de informação é beneficiar o programador.

- G. Complete the box below using words from the text.

describing functions and characteristics

Hardware is the physical equipment input, output and processing.

Software is the (application) program control and coordinate the hardware components. It analyzing and processing data. These programs include a set of instructions processing information.

Database software efficient access required data, and manage knowledge bases.

Data are the raw facts and figures and later generate information.



What does an I.S. professional need to have in mind when describing the characteristics of a system s/he developed?

- H. In groups, prepare short explanations and descriptions about the following features of the Information Technology profession.

CLOUD COMPUTING

SUPPLY CHAIN

BIG DATA

BUSINESS INTELLIGENCE

STACK OVERFLOW

MACHINE LEARNING



Qual a função dos verbos destacados no fragmento?

Por que **-ed** compõe os verbos **use, unorganise e process**?

Por que **are**, e não **is**, antecede o verbo **unorganised**?

Por que **used** aparece sem um antecedente em 3 ocorrências?

Em que circunstâncias devo utilizar **to** e não **for**?

Qual o sentido de **that**? E qual é a sua função?