WHAT IS SOFTWARE?

* The collection of inserted Data, Commands, Instructions and Syntaxes which tells/Guide the computer “WHAT” to do and “HOW” to do.

TYPES OF SOFTWARE:

* There are mainly Three types of software which are as follows:

1. **SYSTEM SOFTWARE:**

* Software that runs the computer and computer hardware so that it can work smoothly is known as system software.
* For Example: Operating Systems such as LINUX, UBANTU, WINDOWS, MACOS, ETC.

1. **APPLICATION SOFTWARE:**

* Application software is a task-oriented program for users to do their work.
* There are three subcategories for application software:
  1. Desktop Application
  2. Mobile Application
  3. Web Application

1. **PROGRAMMING SOFTWARE:**

* Software that requires designing, analysis, testing, maintenance, etc for the development of a software is known as Programming software.

WHAT IS SOFTWARE DEVELOPMENT METHODOLOGY:

* There are certain phases for a development of a software that a client requires. These phases are divides into 6 types, with the contribution of these six phases we can run a software very easily.
* First of all, we have to know the requirement of our client regarding the software, after that we have to analyse the requirements and the problems that should be solved during the development phase.
* After analysis phase is over, we have to work on the design of the software, which means the frontend and the backend part of it. Like which programming languages we will use in the frontend side and same for the backend.
* Next, we have implementation part in which all the research that we had done in previous phases are implemented to make a working software as per the requirement.
* Now testing plays an important role in software development, because if an software is released without any proper testing than we will not be able to identify the errors and mistakes in the software which will create a bad impression of a software on our users.
* And the last one is maintenance phase, because every software requires an time to time update so that it can keep up with the requirements of the users.

DIFFERENCE B/W APPLICATION SOFTWARE AND SYSTEM SOFTWARE:

|  |  |
| --- | --- |
| **APPLICATION SOFTWARE** | **SYSTEM SOFTWARE** |
| Software that develops different programmes for the users at different platforms for better experience. | System software manages the computer and its hardware system. |
| There are three types of application software. Desktop application, Mobile application, Web application. | There are also many types of system software. Such as Linux, Ubuntu, Windows, MacOS. |
| Application software is versatile and can be operated in any devices. | While system software cannot be operated in many devices, it has limited options. |

SDLC PHASES:

* There are total Six Phases in SDLC process:

1. **REQUIREMENT PHASE:**
   * In this phase we first of all collects the requirements of our client or a company that what they need in their software and according to that we procced to our next phase.
2. **Analysis Phase:**
   * In this phase we discuss about the problems and challenges we are going to face during the development of the software and we will find the appropriate solutions the problems and will try to make the software user friendly.
3. **Design Phase:**
   * In this phase we are going to design the overall look of the software. These includes the “frontend” and the “backend” part of it. Frontend is a part of a software where users directly interact with the software while, Backend is the part where all the instructions, commands and syntaxes are given to the program to run the software smoothly.
4. **Implementation Phase:**
   * In this phase we will implement all our planning that we have discussed/done in the previous phases. In short this is the phase where all the vision came together which make a software we required.
5. **Testing Phase:**
   * In this phase testing of the software is carried out by the testing department, so that we can know about any errors remained during implementation phase and we can correct it before we introduce it the users. So, they can use it very easily without any problems.
6. **Maintenance Phase** 
   * In this phase we make sure that the software is updated time to time so that the users get the seamless experience of the software. Updates like addition of any information, place, or something else or removal of something is carried out in this phase.

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