

Practical No :- 7

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Aim :- Study of documentation and standard of software

* Theory :-

Software documentation or source code documentation. i.e. written text that documents and accompanies computer software. If either explains how it operates or how to use it, or many mean different things to people in different roles.

* Reasons for documentation :-

- 1) To understand the software at later stage for correction or modification.
- 2) Better understandable for other people in company or organization are on other field.
- 3) If an advanced project is underlying and there are company team that work on it.
- 4) Reuse part of code for other project.

* Types of software documentation :-

1) Technical documentation -

These contain the technical aspects of the software like API, algorithms, etc. It is prepared mostly for the software developers.

2) Architectural documentation -

It is special type of documentation that concerns the design. It contains very little code and is more focused on the components of the system, their roles and working.

3) End-User documentation -

As the name suggests these are made for the end-users. It contains support resources for the end-user.

4) Requirement documentation -

It is the description of how the software shall perform and which environment setup would be appropriate to have the best out of it.

* Importance of software documentation -

For a programmer reliable documentation is always a must. The presence keeps track of all aspects of an application and helps in keeping the software updated.

* Advantages of software documentation -

1) Helps development team during development

- 2) Helps end-users in using the product.
- 3) Improves overall quality of software product.
- 4) It cuts down duplicate work.
- 5) Makes easier to understand code.
- 6) Helps in establishing internal co-ordination.

* Disadvantages :-

- 1) The documenting code is time consuming
- 2) The documentation has no influence on the performance of application
- 3) Documenting is not fun, its sometimes boring to some extent

A software standard is a standard, protocol or other common format of a document, file or data transfer accepted and used by one or more software developers while working on one or more than one computer programs.

Software standards enable interoperability between different programs created by different developers.

Developing software standards will greatly improve functions between these systems.

* Advantages of software standards:-

- 1) Improved support.

- 2) Improved training
- 3) Improved data sharing
- 4) Simplified & budgeting and purchasing.
- 5) Smoother software installation and upgradation.

* Software quality assurance standards can be classified into two main classes:-

1) Software quality assurance management standards, including certification and assessment methodologies (Quality management standards).

2) Software project development process standards (Project process standards).

* Disadvantages of software standards:-

1) Adding company-specific functionality is not always possible.

2) The software is often complex because of the often unused functionality.

* Conclusion :-

In this practical, we have studied the software documentation & standards, its types, use and advantages, disadvantages.