

Chapter 4

IMPLEMENTATION

4.1 Description

Implementation is the realization of an application, or execution of a plan, idea, model, design, specification, standard, algorithm, or policy.

In computer science, an implementation is a realization of a technical specification or algorithm as a program, software component, or other computer system through computer programming and deployment. Many implementations may exist for a given specification or standard. For example, web browsers contain implementations of World Wide Web Consortium-recommended specifications, and software development tools contain implementations of programming languages.

In other words, the software or hardware implementation that encompasses all the post-sale processes involved in something operating properly in its environment, including analyzing requirements, installation, configuration, customization, running, testing, systems integrations, user training, delivery and making necessary changes. The word "deployment" is sometimes used to mean the same thing. Project implementation is the phase within the project life cycle that integrates the project's product or service into the user's organization

Designer concern

- How much disk storage space will the master file consume?
- How many lines of program code will it take to perform this function?
- How can we cut down on CPU time when we run the system?
- What are the most efficient ways of storing this data?
- What database management system should we use?

As such, **implementation** is the action that must follow any preliminary thinking in order for something to actually happen.

