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❓ CONCEPTUAL AND TECHNICAL DESIGNS

Conceptual and Technical Designs

To transform requirements into a working system designers must satisfy both customers and the system builders. The customers should understand what the system it to do . at the same time the system builders must understand how to do. To accomplish these design is divided into two parts as shown in fig 5.2, and is called as the two parts iterative process. The two parts are given below:

- Conceptual design or preliminary design.
- Technical design or detailed design.

First the conceptual design is produced that tells the customer exactly what the system will do. It belongs to the what part of the solution. Once the customer approves it is translated into a much more detailed document i. e. the technical design which allows system builders to understand the actual hardware and software needed to solve the customers problem. It belongs to the how part of the solution.

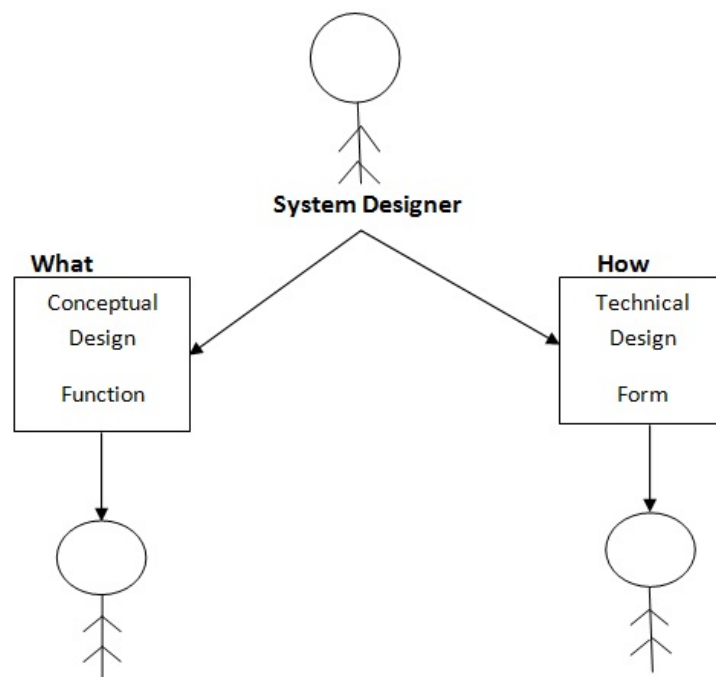


Fig. 5.2 Conceptual and Technical Designs

The process is iterative because in actuality, the designers move back and forth among activities involving understanding the requirements possible solution testing aspects of a solution for feasibility, presenting possibilities of the customers and documenting the design for the programmers.

As we know system is defined by its boundary entities attributes and relationships. The conceptual design describes each of these system aspects by answering questions such as the following:

- Where will the data come from?
- What will happen to the data in the system?
- What will the system look like to users?
- What choices will be offered to users?

The conceptual design describes the system in language that the customer can understand. It may even list acceptable responses and the actions that may result. A good conceptual design should have the following characteristics:

- It is written in the customer language.

- It contains no technical jargon.
- It describes the functions of the system.
- It is independent of implementation
- It is linked to the requirements documents.

By contrast, the technical design describes the hardware configuration, the software needs. Communication interfaces. The input and output of the system, the software architecture, and anything's else that translates their requirements into a solution to the customer problem. That is the technical design description is a technical picture of the system specification . it usually include at least three items given below:

A description of the major hardware components and their functions,

The hierarchy and function of the software components, and

The data structures and the data flow.

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