

1) System's planning & Selection

The first phase of SDLC in which an organization's total information system needs are analysed and arranged, & in which a potential information systems projects is identified & an argument for continuing or not continuing with the project is presented.

2) Information system analysis & design

The process of developing & maintaining an information system.

3) Participatory Design.

A systems development approach that originated in northern Europe, in which users & the improvement of their work lives are the central focus.

4) Application Software.

Software designed to process data & support users in an organization. Example includes spreadsheets, word processors & DBMS.

5) ~~Information system analysis & design.~~ system analyst.

The organizational role most responsible for the analysis & design of information systems.

6) Joint Application design (JAD).

A structured process in which users, managers, & analyst work together for several days in a series of intensive meetings to specify or review system requirements.

7) Prototyping.

Building a scaled-down version of ~~users~~ desired Information System.

8) Systems

A group of interrelated procedures used for a business function, with an identifiable boundary, working together for some purpose.

9) Component

An irreducible part or aggregation of parts that make up a system, also called a subsystem.

10) Coupling Interrelated

Dependence of one part of the system on one or more other system part.

11) Boundary

The line that marks the inside and outside of a system & that sets off the system from its environment.

12) Purpose

The overall goal or function of a system.

13) Systems Analysis

Phase of SDLC, in which the current system is ~~stud~~ studied & alternative replacement systems are proposed.

14) Systems implementation & operation design.

Phase of SDLC, in which the system chosen for development in systems analysis is first described independently

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of any computer platform & is then transferred into technology-specific details from which all programming & system construction can be accomplished.

15) Environment.

Everything external to the system that interacts with the system.

16) Interfaces.

point of contact where a system meets its environment or where subsystems meet each other.

17) Constraints.

A limit to what a system can accomplish.

18) System implementation & operation.

Final phase of SDLC, in which the information system is coded, tested, & installed in the organization, & in which the information system is systematically repaired & improved.

19) Systems development life cycle.

A standard process followed in an organization to conduct all the steps necessary to analyze, design, implement & maintain information system.

20) Systems development methodology.

A series of phases/steps used to mark the phases of development for an information system.

21) Decomposition

The process of breaking the description of a system down into small components, also called as functional decomposition.

22) Modularity

Dividing a system up to chunks or modules of relatively uniform size.

23) Cohesion

The extent to which a system or a subsystem performs a single function

24) Coupling

The extent to which subsystems depend on each other

25) Computer-Aided software Engineering (CASE)

software tools that provide automated support for some portion of the systems development process.

26) Repository

A centralized database that contains all diagrams, forms & report definitions, data structures, data definitions, process flow & logic, & definitions of other organizational & system components, it provides a set of mechanisms & structures to achieve seamless data-to-tool & data-to-data integration.

27) Rapid Application development (RAD)

systems development methodology created to radically decrease the time needed to design & implement information systems.

28) Agile methodologies

current approaches to systems developments that focus on adaptive methodologies, people instead of roles, & an overall self-adaptive development process.