

Systems Analysis and Design

Foundations for Systems Development

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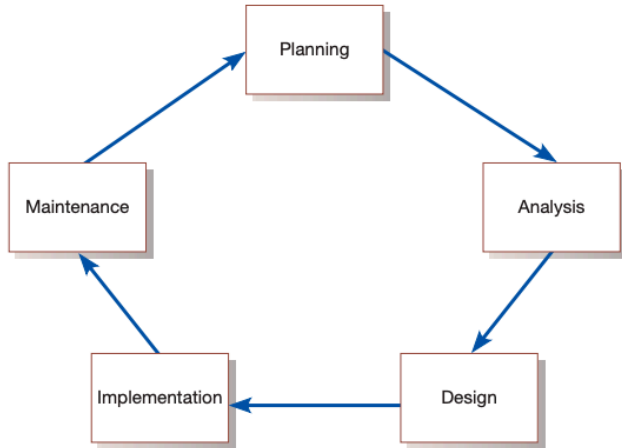
What Is Information Systems Analysis and Design?

- **Information systems analysis and design:** The process of developing and maintaining an information system.
- The analysis and design of information systems are based on:
 - Your understanding of the organization's objectives, structure, and processes.
 - Your knowledge of how to exploit information technology.

Developing Information Systems

- **Systems development methodology:** A standard process followed in an organization: all the steps necessary to analyze, design, implement, and maintain information systems.
- **Systems development life cycle (SDLC)** The series of steps used to mark the phases of development for an information system.

Systems Development Life Cycle



Systems Development Life Cycle

Systems Planning

The first phase of the SDLC in which an organization's total information system needs are identified, analyzed, prioritized, and arranged.

Systems Analysis

The second phase of the SDLC in which system requirements are studied and structured.

Systems Design

The third phase of the SDLC in which the description of the recommended solution is converted into logical and then physical.

Systems Development Life Cycle

Implementation

The fourth phase of the SDLC, in which the information system is coded, tested, installed, and supported in the organization.

Maintenance

The final phase of the SDLC, in which an information system is systematically repaired and improved.