

Developing IS Solutions

Developing successful information system solutions to business problems is a major challenge for business managers and professionals today. As a business professional, you will be responsible for proposing or developing new or improved uses of information technologies for your company. As a business manager, you will also frequently manage the development efforts of information systems specialists and other business end users.

Most computer-based information systems are conceived, designed, and implemented using some form of systematic development process.

Examples of other activities include investigating the economic or technical feasibility of a proposed application, acquiring and learning how to use the software required implementing the new system, and making improvements to maintain the business value of a system.

Information system development comprises:-

- 1) Business Planning
- 2) Information engineering.
- 3) System development life cycle
- 4) Rapid action development

1. Business Planning:-

Through the Business planning the business organization recognize its business, mission, objective and functions and how this determines its business process. It involves the Technical information system plan, Operational informational system plan, strategic information system plan.

- A) Technical information system plan:- Here the firm decides what will be the technology, infrastructure, who will design and who will manage it.
- B) Operational informational system plan:- This is required to identify what operation, function, process are to be supported by new system and technology.

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C) Strategic information plan:- This involves developing the business plan, vision, objective of the organization developing the information system, vision and defining how information system can improve the performance to the organization. It also determines the justification of the new system for the goal and objective of the business.

2. Information engineering:-

It is the methodology to build architecture to plan, analysis and design and implement application for an enterprise. This is executed by: - enterprise methodology and business area analysis. This comprises of the information architecture, business architecture and technical architecture.

- ✓ Enterprise Methodology: - It is a structural approach to help a corporation enterprise on Information system plan at high level abstraction to model the primary business, subsystem and application.
- ✓ Business area analysis: - It is the stage of engineering information. It focuses on the subset of information architecture. It involves the different business areas, recruitment and development of the organization. It involves basically two parts:- recruitment and data mapping.

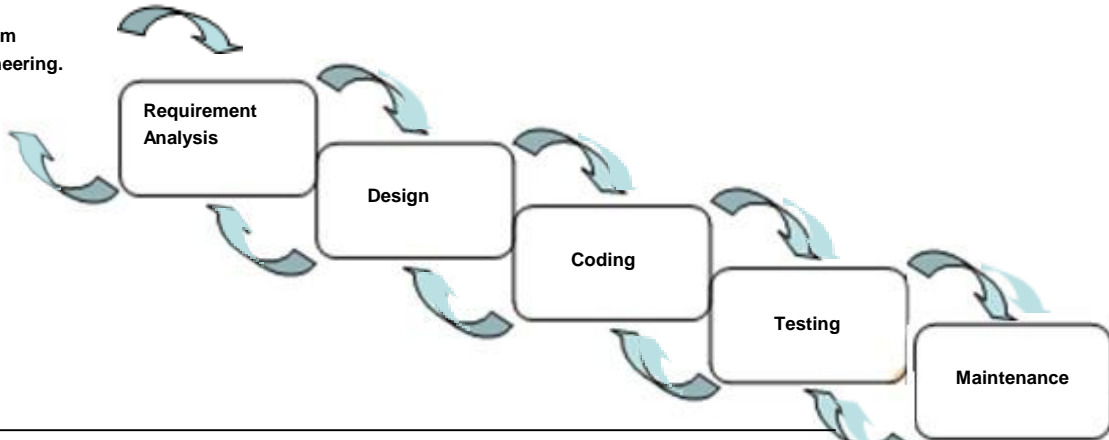
3. System development life cycle:-

System development life cycle method consists of the following activities

- Preliminary investigation
- Requirement analysis or system analysis
- Design of system
- Development of software or coding
- System testing
- Implementation
- Maintenance

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System Engineering.



Investigation
Exploration

Planning
Requirement
Definition

(PFR)
Product
feasibility
Review

Architecture
Details

(PDR)
Preliminary
Design
Review

(CDR) Critical
Design Review

Code
Debug

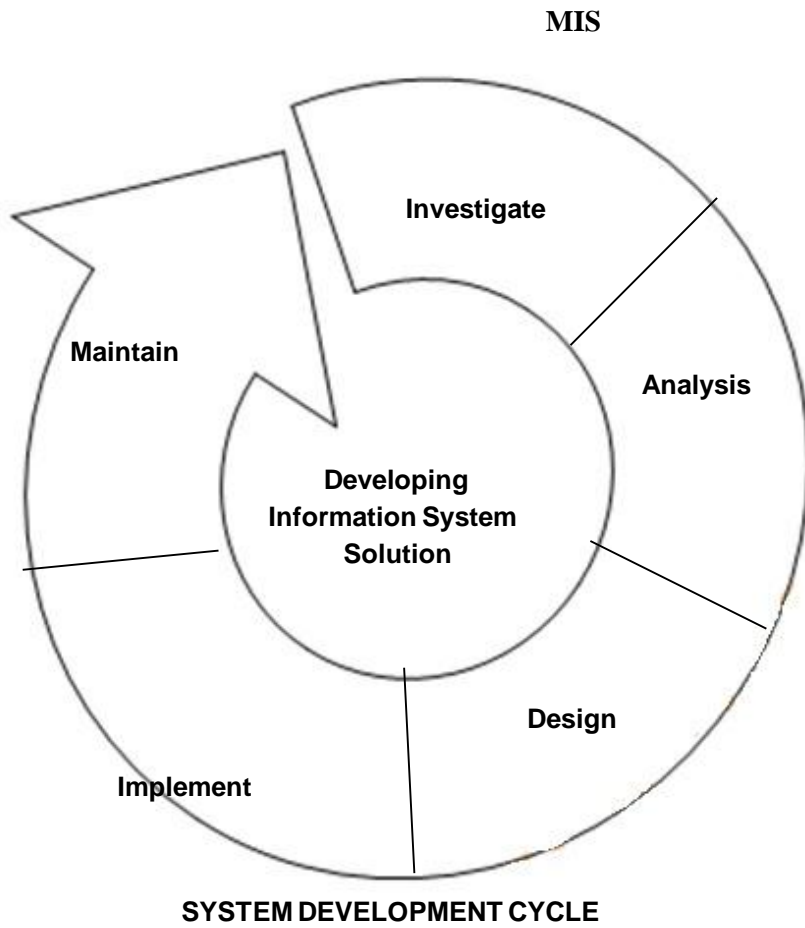
(SCR) Source
Code Review

Integration
Acceptance

(PRR) Product
Release
Review

Enhance
Adapt & Fix

(PPM) Project
Postmortem



4. Preliminary investigation/ Rapid action development:-

- ✓ Request clarification.
- ✓ Feasibility study.
- ✓ Request approval
