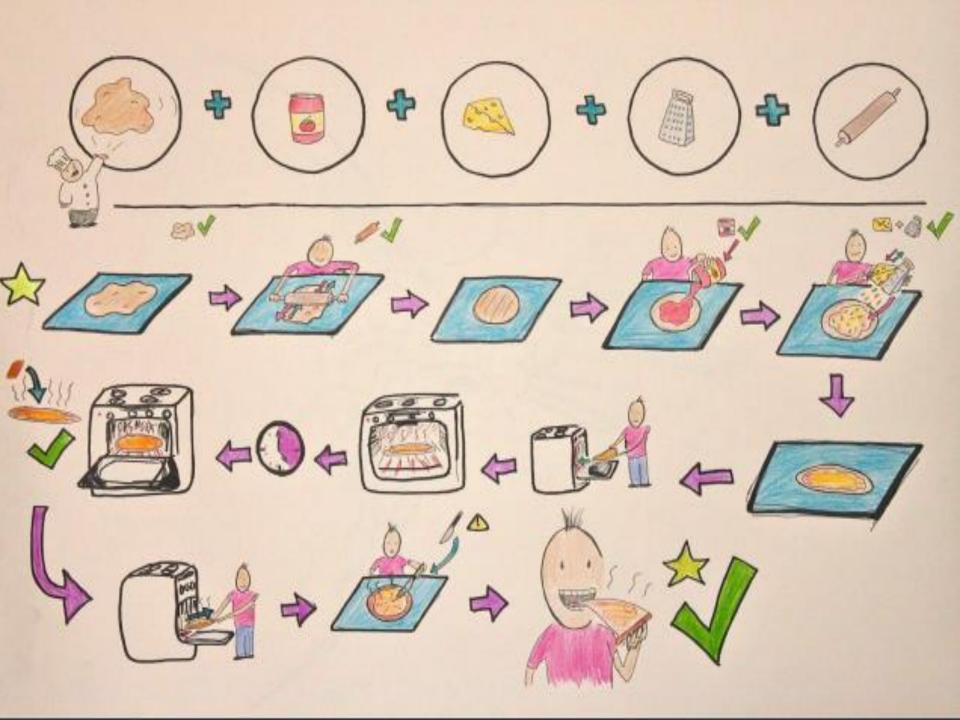
SYSTEM DEVELOPMENT LIFECYCLE

Lecture 2

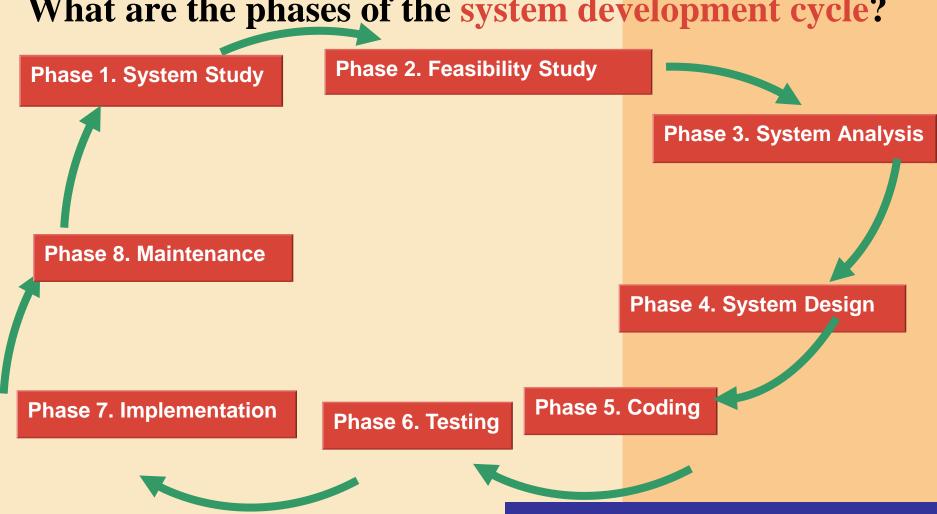


What is an **SDLC**?

an organized process of developing and maintaining systems.

Combination of various activities

What are the phases of the system development cycle?



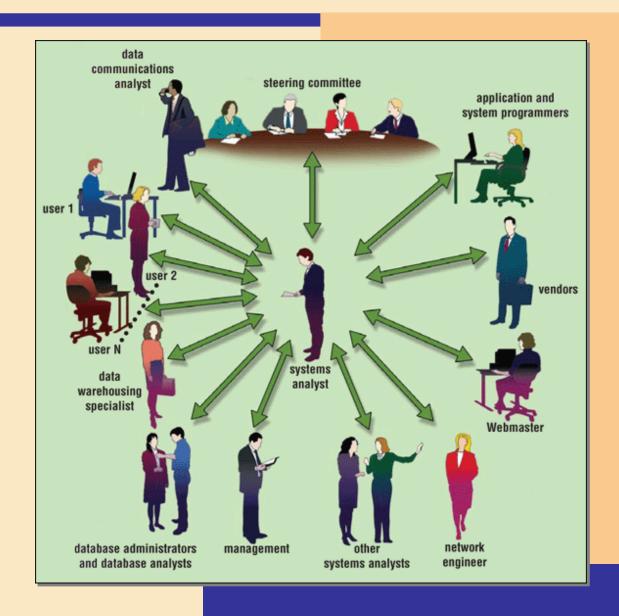
What are guidelines for system development?

Arrange tasks into phases (groups of activities)

Involve users (anyone for whom system is being built)

Develop clearly defined standards (procedures company expects employees to follow)

Who participates in the system development life cycle?



What is the project team?

Formed to work on project from beginning to end

Consists of users, systems analyst, and other IT professionals

Project leader—one member of the team who manages and controls project budget and schedule

What is a System Study?

Clear Picture of what actually the physical system is

Two Phases

Scope Identification

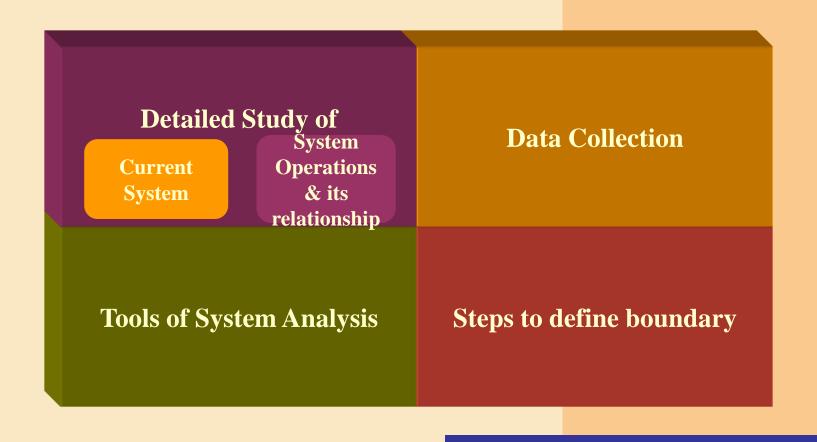
Requirement Identification

What is Feasibility?

Testing
workability,
User's
requirement,
Resources, Cost
effectiveness



What is System Analysis



What is the Design Phase?

Detailed analysis of a new system.

Major step in moving from problem to solution

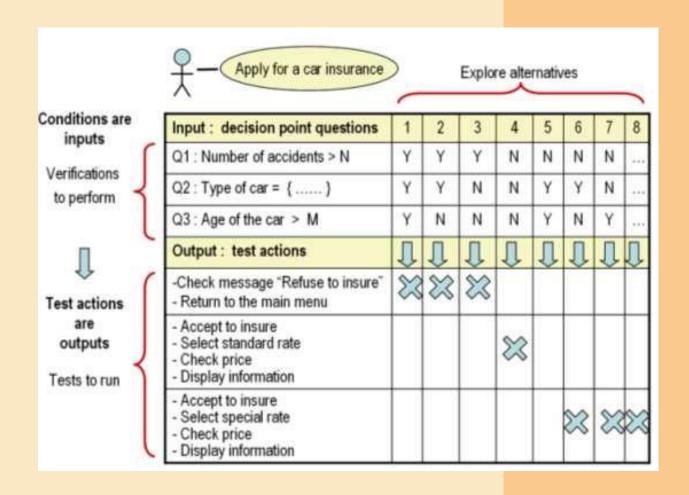
Two stages

General
Design

Detailed
Design

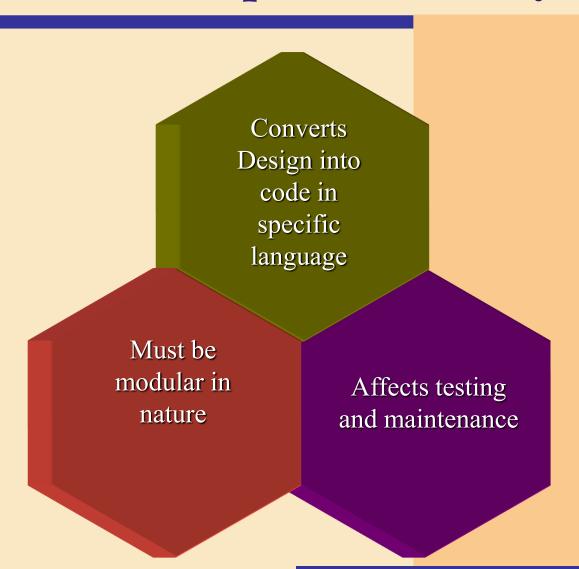
What are tools and technique for designing

- 1. Flow Chart2. Data Flow Diagram3. Data Dictionary4. Structured English
 - 5. Decision Tables



What is the

Code?



What is Testing?

Analyze software for finding bugs.

Test plan is developed and run on given set of test data.

What are different test run?

Unit Test

Verifies each individual program works by itself

User Acceptance Testing

determines if the system satisfies the basic requirements

Systems test

Verifies all programs in application work together

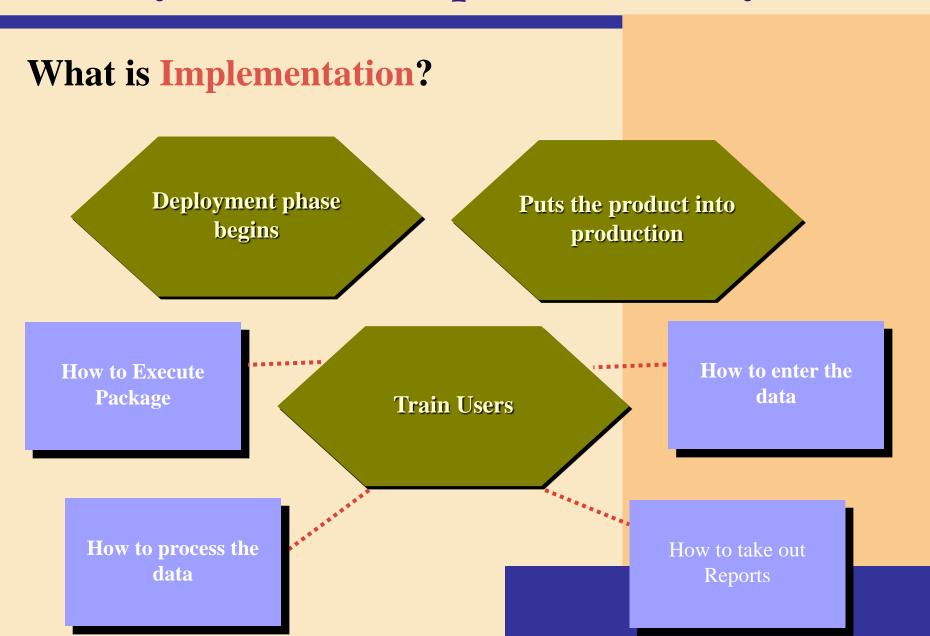
Integration Test

Verifies application works with other applications

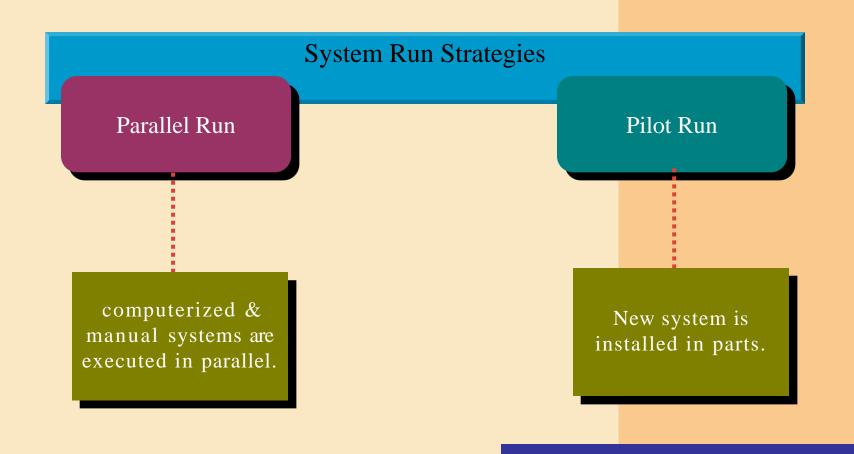
What is the implementation?

Purpose is to construct, or build, new or modified system and then deliver it to users

> **Convert to new system** Train users **Install and test new system Develop programs**



What are implementation strategies?

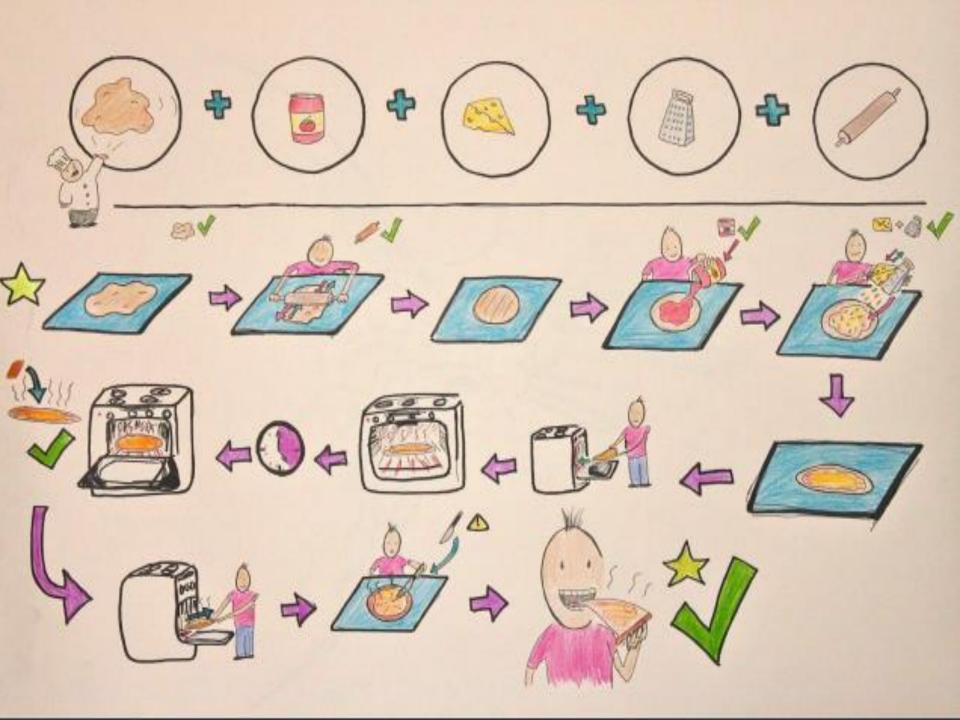


What is a Maintenance?

Eliminate errors in the system during its working life

Tune the system to any validation in its working environment

What are the documents used to summarize technical specifications? Recommend ation to overcome **System** the **Proposal System Study** limitations Feasibility **Software Feasibility Study** Study Requirement Report **Specification** (FSR) (SRS) **System Analysis System Design System Design Specificatio** Is Source n (SDS) Code **Coding** Test plans/ results **Testing Final tested**



Home Work

What are System Environments?

- Development
- ☐ Test
- Staging
- **□** Pre-Production
- Production
- Mirror