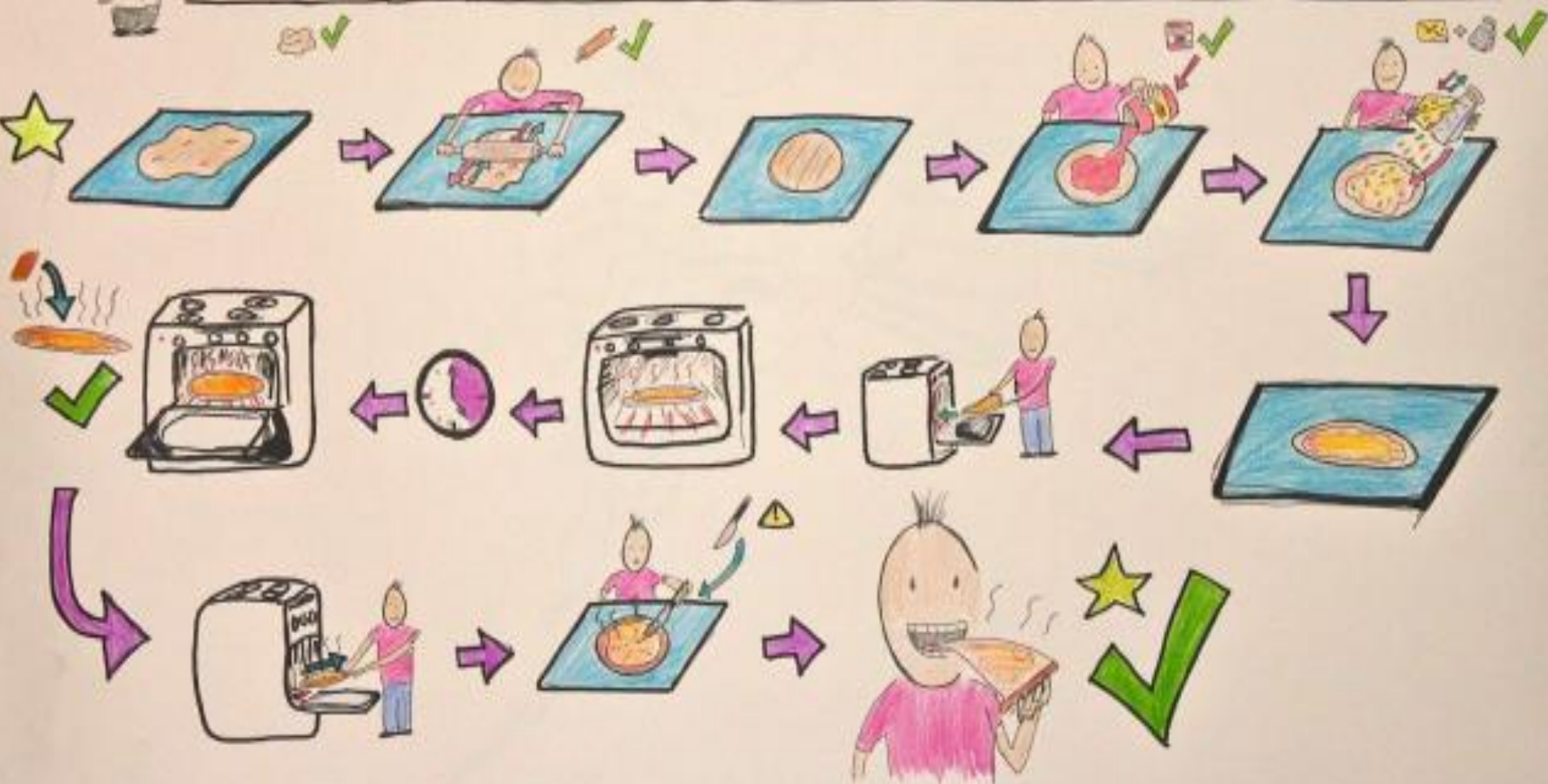
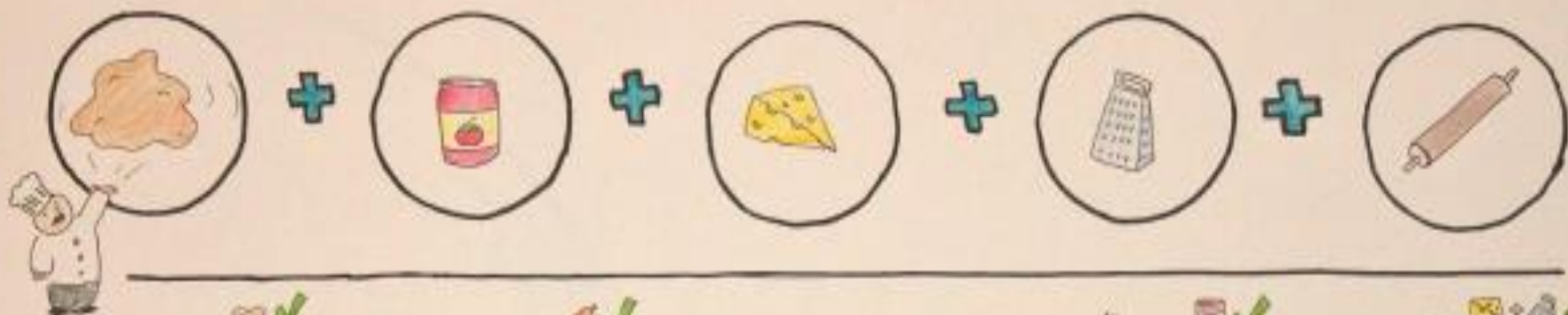


# SYSTEM DEVELOPMENT LIFECYCLE

## Lecture 2



# The System Development Life Cycle

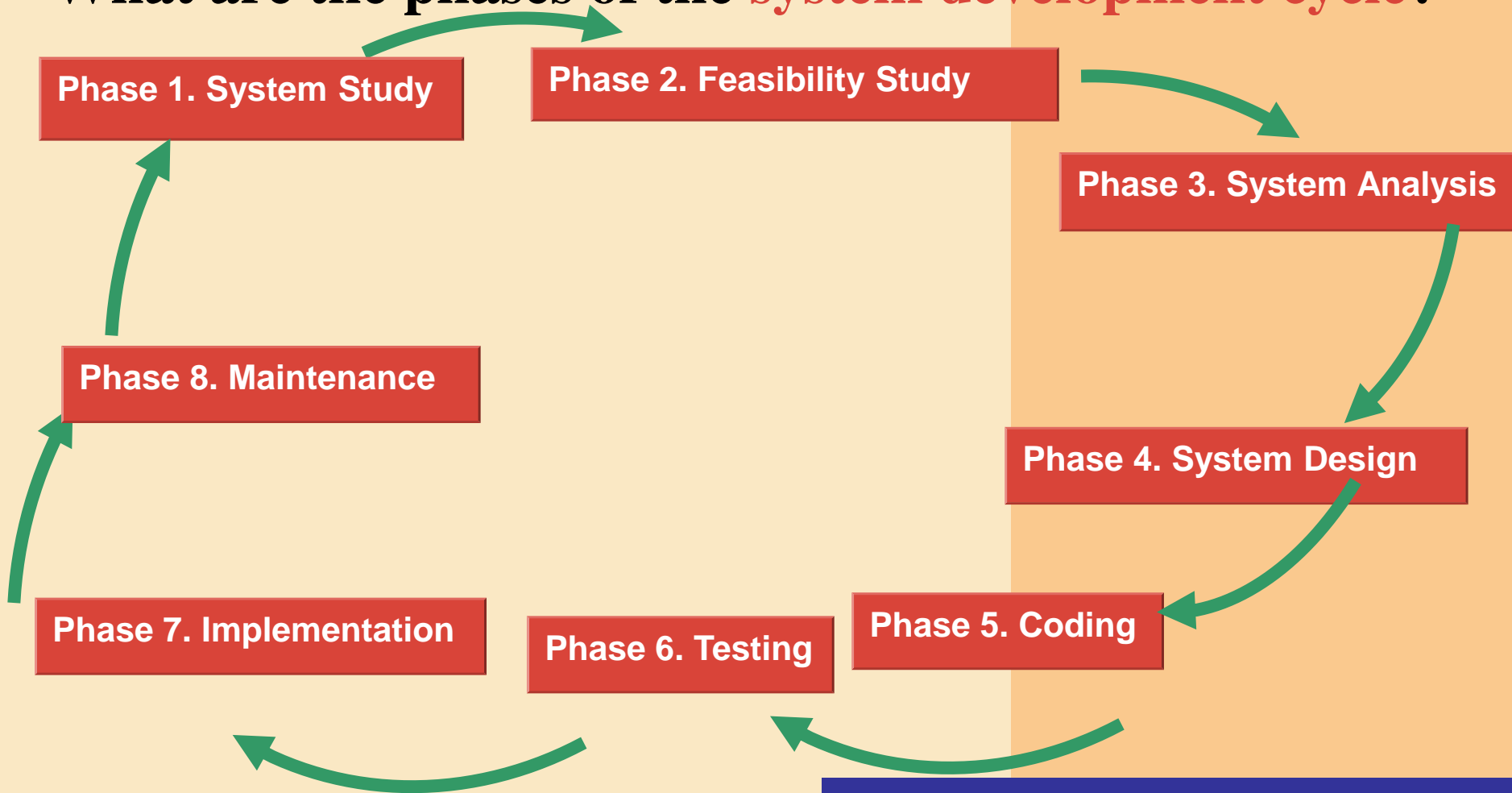
What is an **SDLC**?

an organized process of  
developing and maintaining  
systems.

Combination of various  
activities

# The System Development Life Cycle

What are the phases of the **system development cycle**?



# The System Development Life Cycle

**What are guidelines for system development?**



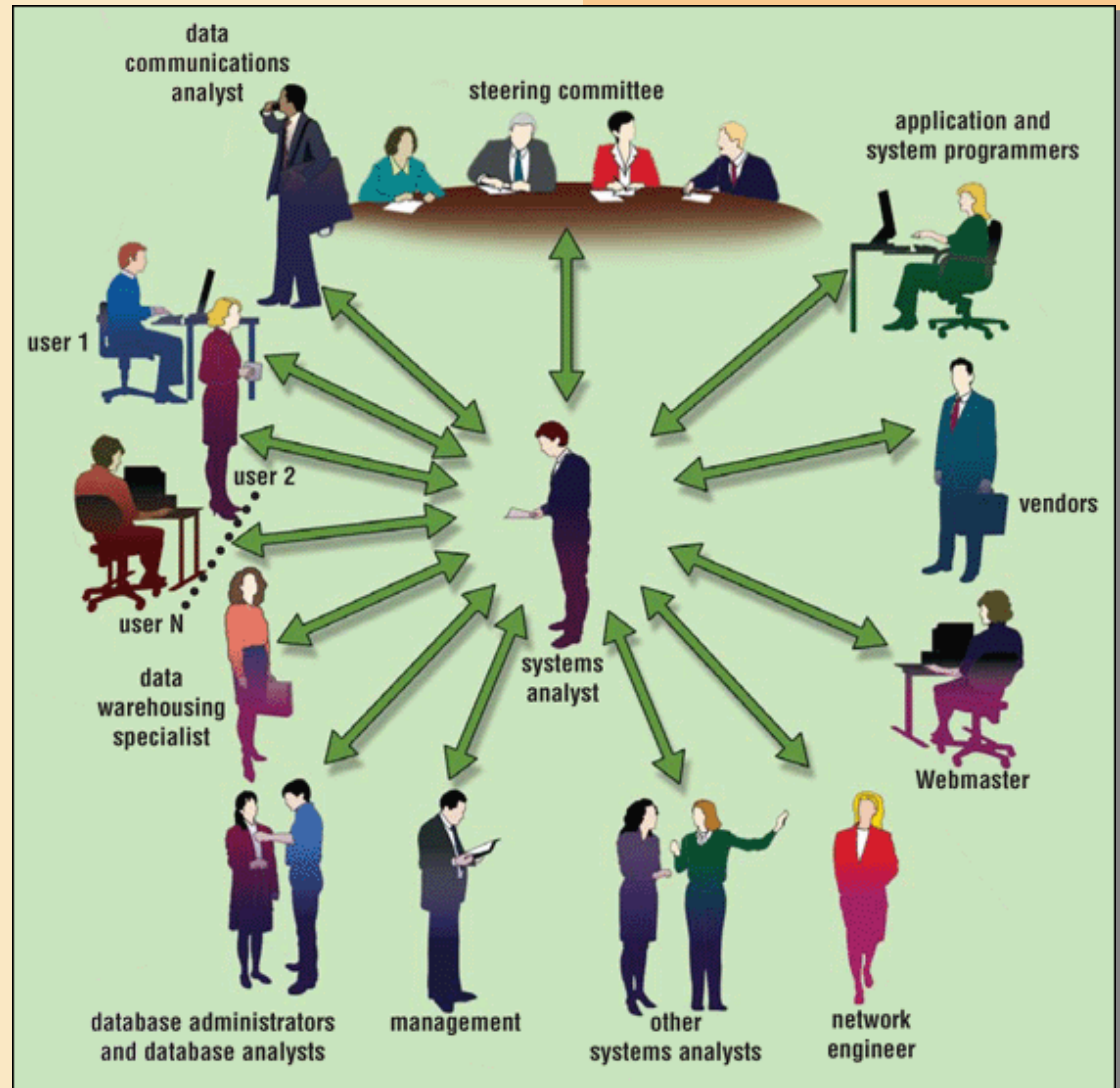
**Arrange tasks into **phases**  
(groups of activities)**

**Involve **users** (anyone for whom  
system is being built)**

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

# The System Development Life Cycle

Who participates in the system development life cycle?



# 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

# The System Development Life Cycle

What is a **System Study**?

Clear Picture of what  
actually the physical  
system is

Two Phases

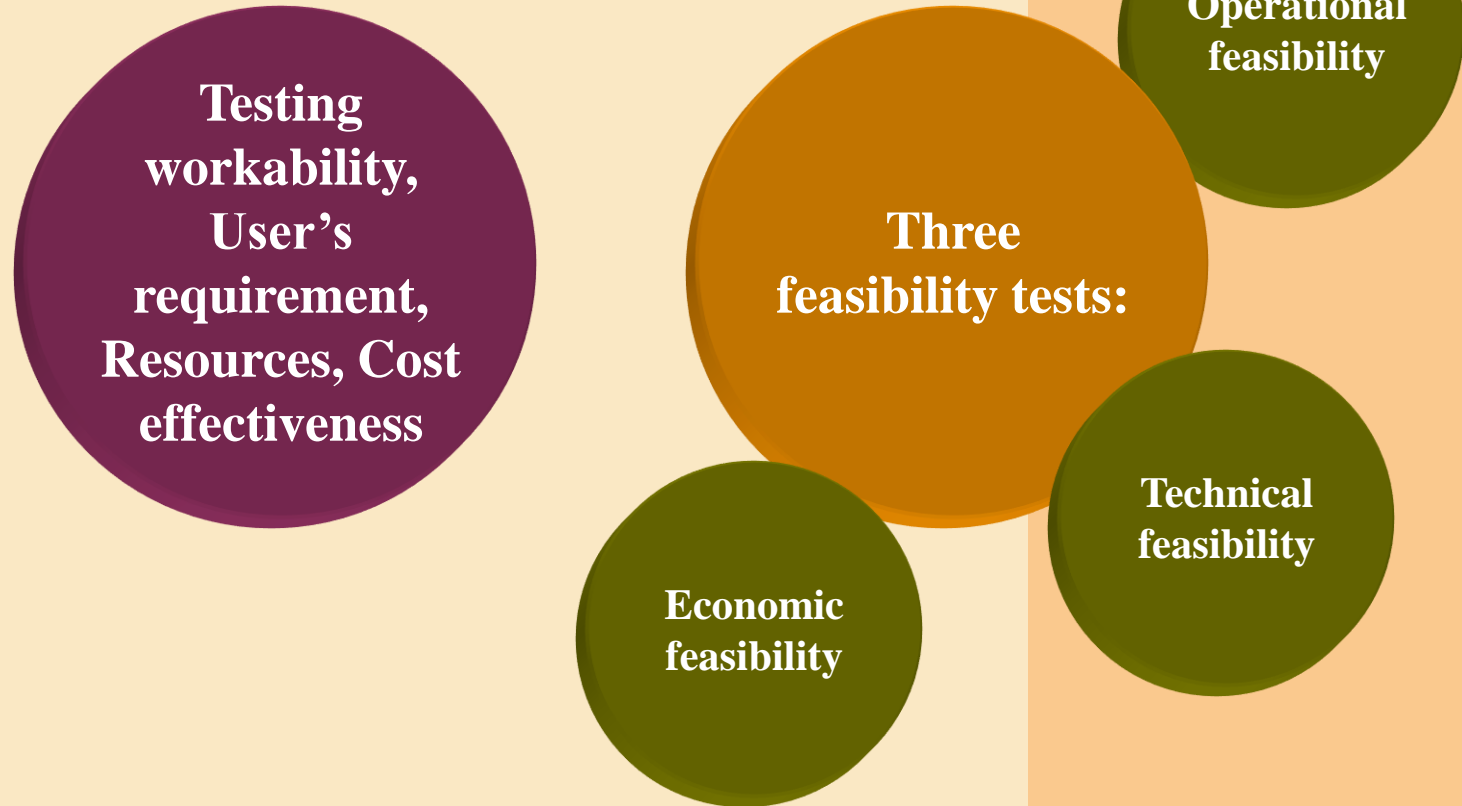
Scope  
Identification

Requirement  
Identification



# The System Development Life Cycle

## What is **Feasibility**?



# The System Development Life Cycle

## What is **System Analysis**



# The System Development Life Cycle

## 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

# The System Development Life Cycle

**What are tools and technique for designing**

1. Flow Chart

2. Data Flow Diagram

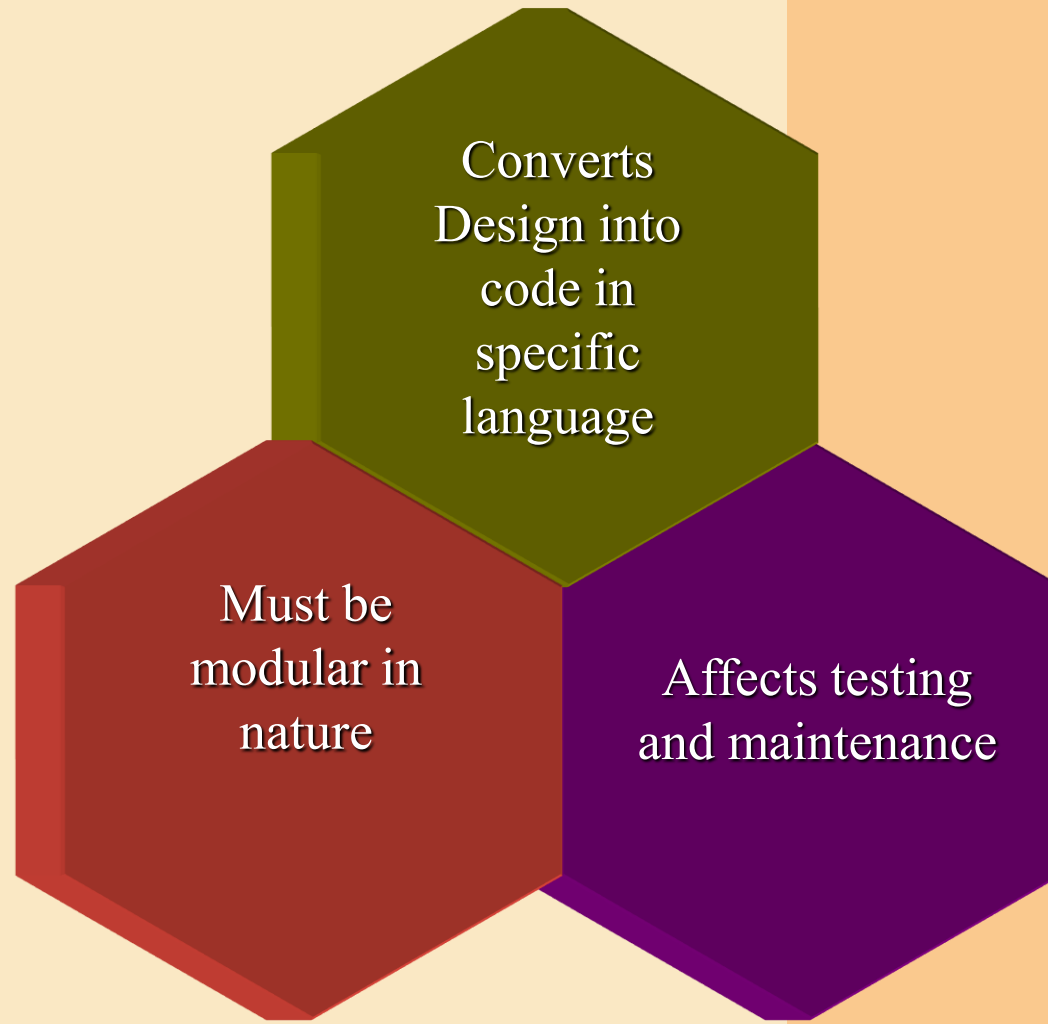
3. Data Dictionary

4. Structured English

5. Decision Tables

# The System Development Life Cycle

What is the  
**Code?**



# The System Development Life Cycle

## What is **Testing**?

**Analyze software for finding bugs.**

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

# The System Development Life Cycle

**What are different test run?**

## Unit Test

Verifies each individual program works by itself

## Systems test

Verifies all programs in application work together

## User Acceptance Testing

determines if the system satisfies the basic requirements

## Integration Test

Verifies application works with other applications

# The System Development Life Cycle

What is the **implementation**?

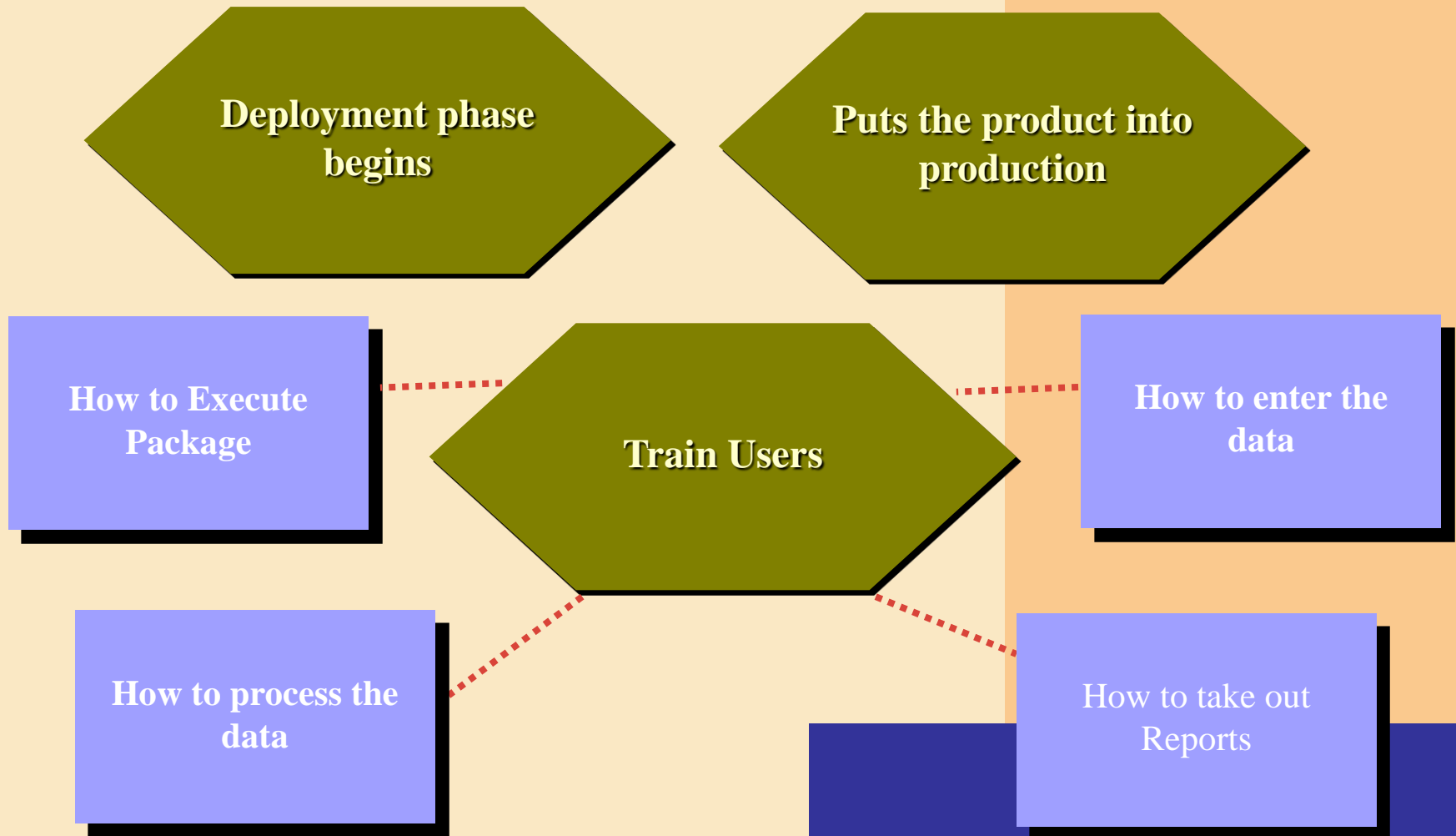
- Purpose is to construct, or build, new or modified system and then deliver it to users





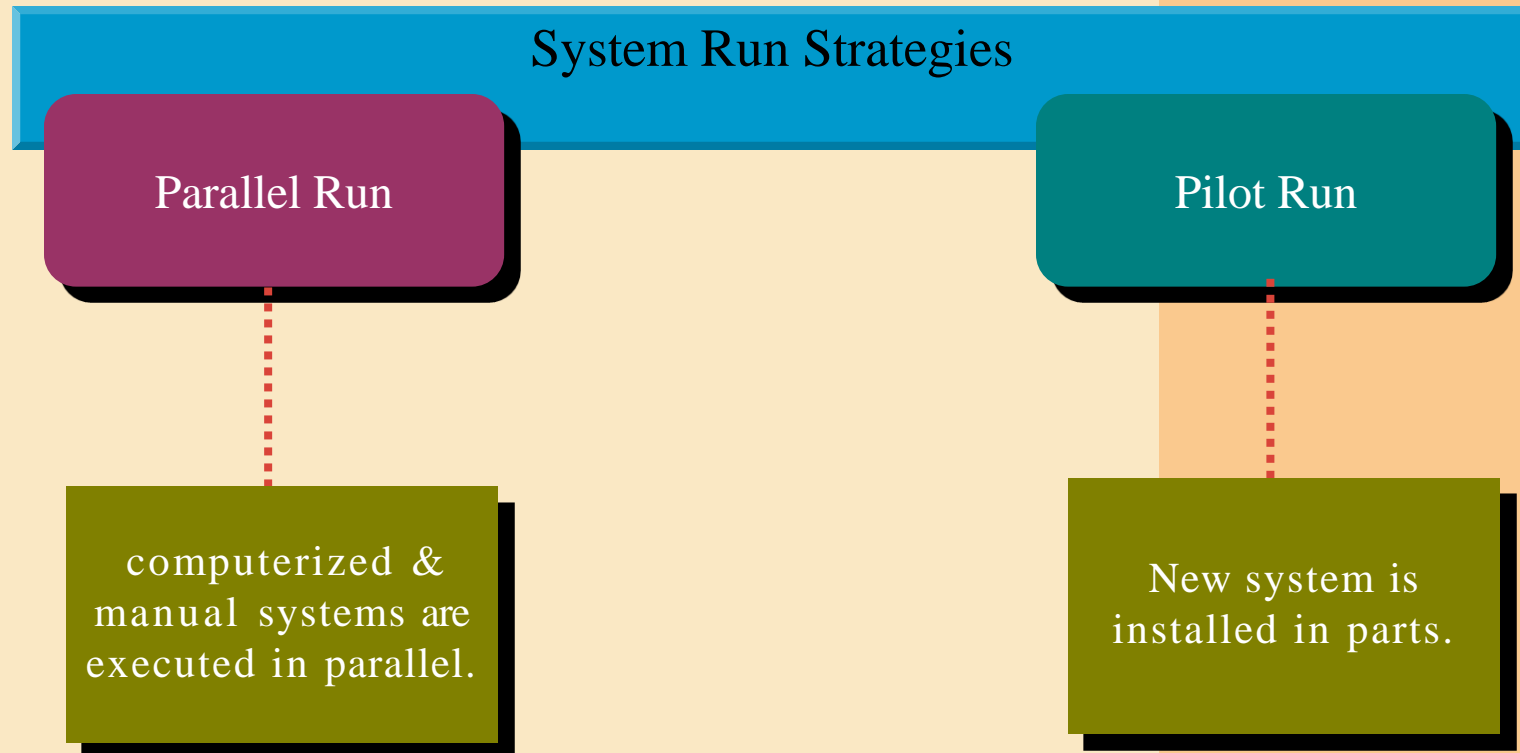
# The System Development Life Cycle

## What is **Implementation**?



# The System Development Life Cycle

**What are implementation strategies?**



# The System Development Life Cycle

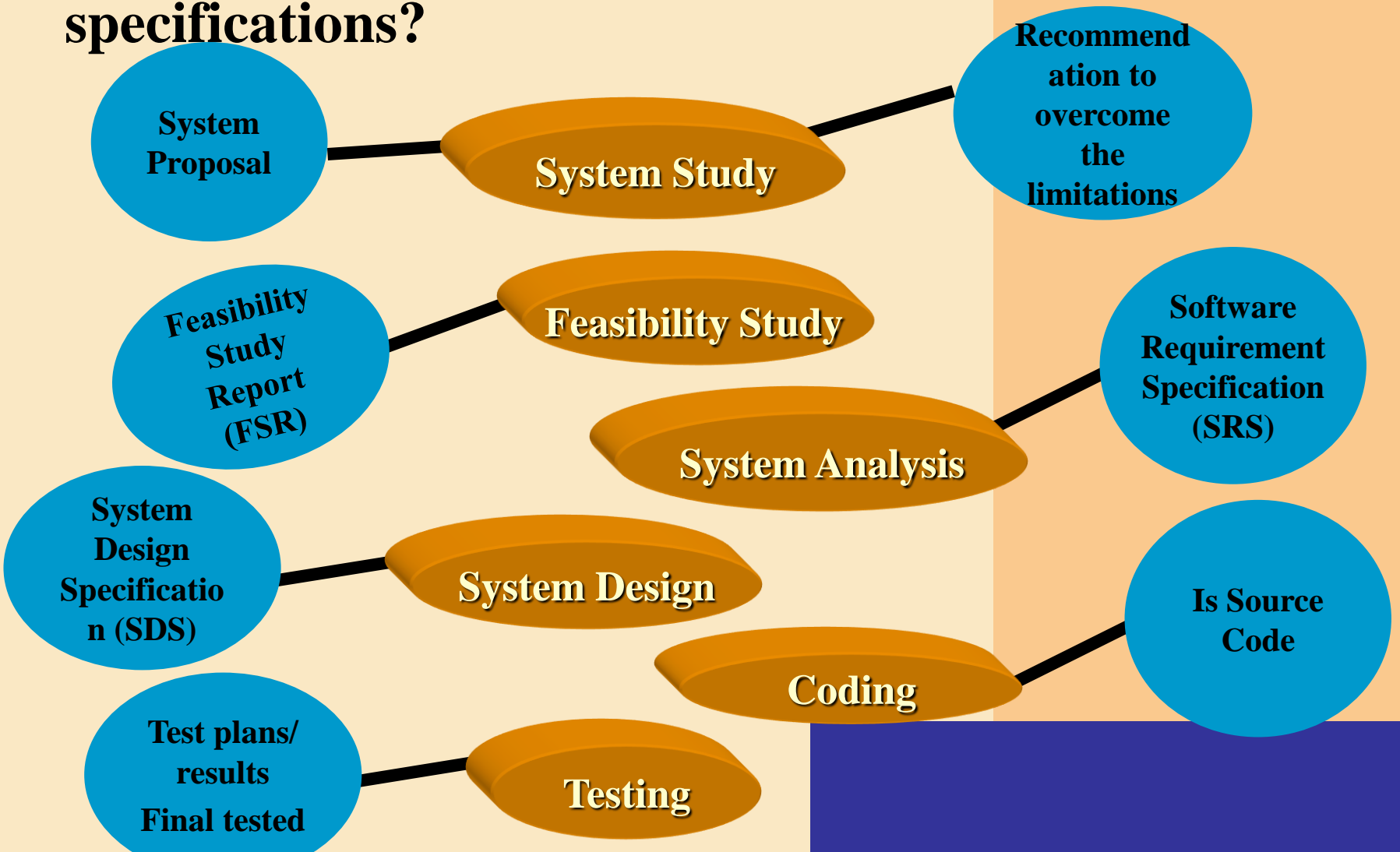
What is a **Maintenance** ?

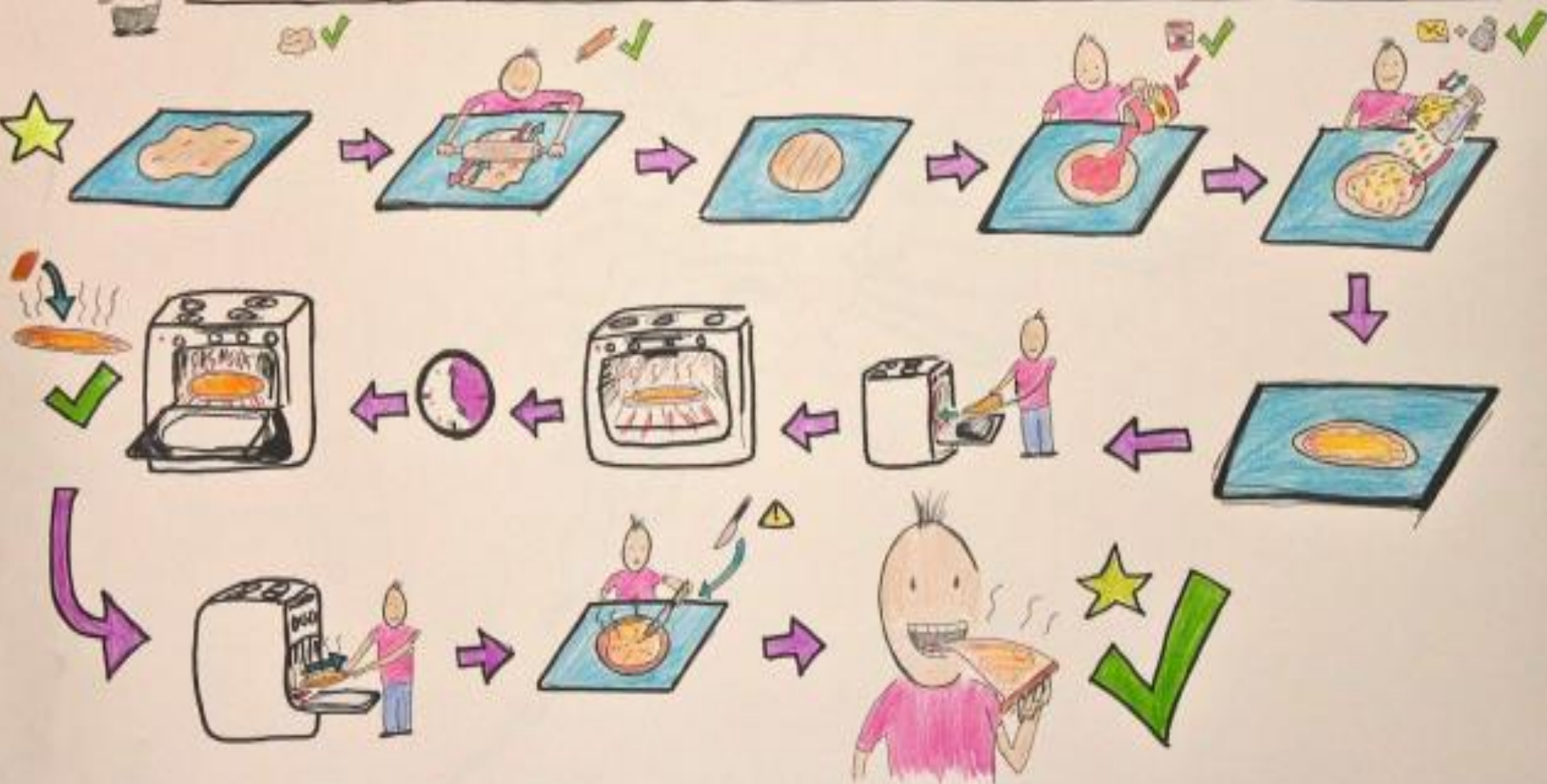
**Eliminate errors in the  
system during its  
working life**

**Tune the system to any validation  
in its working environment**

# The System Development Life Cycle

What are the documents used to summarize technical specifications?





# Home Work

# The System Development Life Cycle

What are **System Environments**?

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