

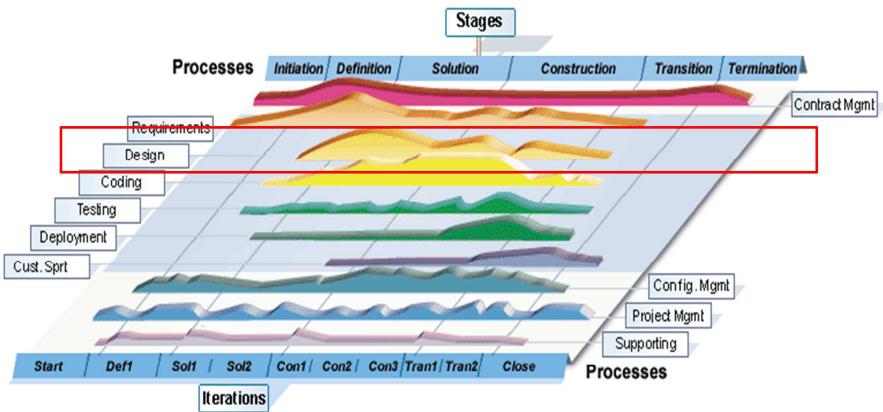
# **Design Process**

Instructor:

## Agenda

- Design process
- Design workflow
- Design documents

## Design Processes

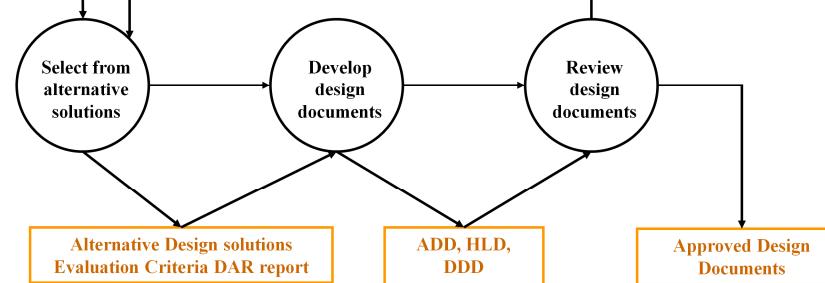


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## Design process Overview

- Purpose:
  - Develop solutions to requirements
  - Create Architecture design, high level and detail design documents



## Design process

### Develop the design

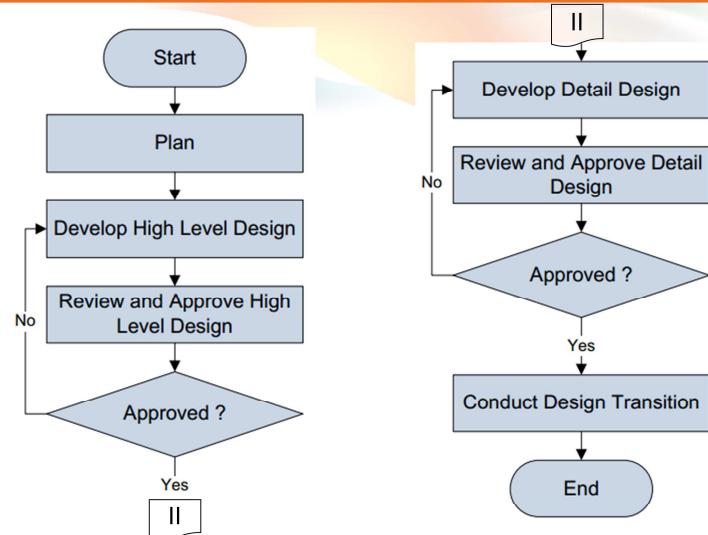
- AD/HLD, DD: Step and Activities
  - Review and approve high level design:
    - Prepare for high level design review, inform and send documents, records to the reviewers
    - Review: Design methodology, system architecture, feasibility of detail design process and coding
    - Approve high level design
  - Detail design:
    - Design Screen, Report, Algorithms and other modules
    - Create detail design document

Sample: [Software High Level Design Document\\_Sample.doc](#)

Sample: [Software Detailed Design Document\\_Sample01.docx](#)

Sample: [Software Detailed Design Document\\_Sample02.docx](#)

## Design Work Flow Overview



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## Design Documents

### High-Level Design

A **High-Level Design** provides an overview of a solution, platform, system, product, service, or process.

Such an overview is important in a multi-project development to make sure that each supporting component design will be compatible with its neighboring designs and with the big picture.

The **highest level solution design** should briefly describe all platforms, systems, products, services and processes that it depends upon and include any important changes that need to be made to them.

A **high-level design document** will usually include a high-level architecture diagram depicting the components, interfaces and networks that need to be further specified or developed.

## **Design Documents**

### **High-Level Design Document Sample**

Refer to [[Software High Level Design Document \\_ Sample.doc](#)] file

## **Design Documents**

### **Detailed Designs**

Detailed design documents includes the following documents:

- 1.Screen Design Document
- 2.Data Design Document
- 3.Class Design Document

## **Design Documents**

### **Detailed Design – Screen Design**

We have to define the following items in Screen Design document:

1. Screen follow  
Screen structure or transition between screens. It should be in diagram
2. Screen's component list
3. Screen picture

Refer to [\[Software Detailed Design Document\\_Sample01.docx\] file](#)

## **Design Documents**

### **Detailed Design – Data Design**

We have to define the following items in Screen Design document:

1. Entity relationship diagrams
2. Tables structure
3. Fields structure
4. Files structure
5. Design the format of codes (ex. Customer codes, product codes )

Refer to [\[Software Detailed Design Document\\_Sample01.docx\] file](#)

## **Design Documents**

### **Detailed Design – Class Design**

We have to define the following items in Class Design document:

1. COMMON package declaration
2. Error, exception handling
3. Log, trace and debug
4. Performance optimizing mechanism
5. Class diagram & Sequence diagram
6. External interface
7. Method declaration

Refer to [[Software Detailed Design Document\\_Sample02.docx](#)] file



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