Clement Su

Design Document Introduction

Development Cycle (WaterFall)

Requirement

Design

Implement

Testing
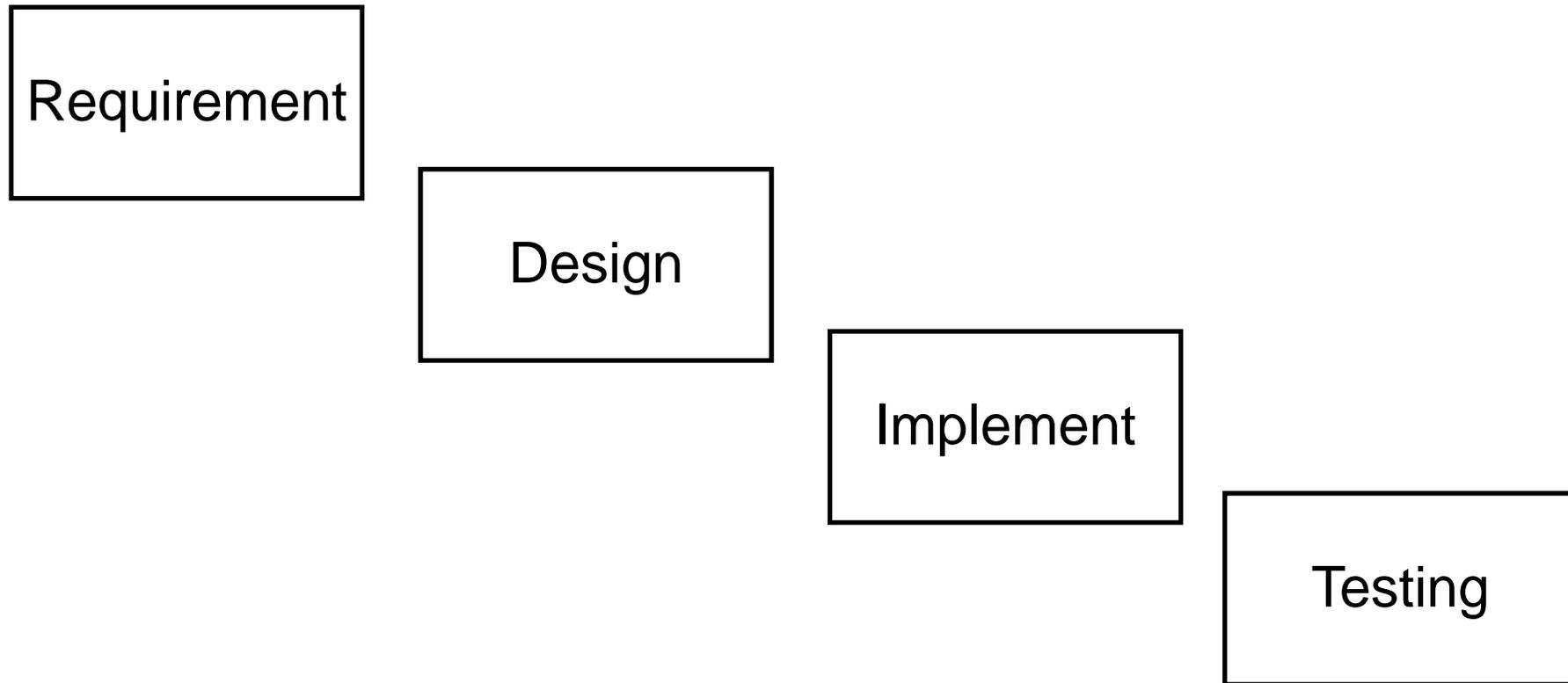
Why Design Document?

- Communicate
    - Architect
    - Other developers
    - Tester
    - People who will take over your task in the futur
    - Yourself
- Help developer/architect to think more
- Reduce possibility of rework

Different Design Document

- High level Design Document
    - For architect (or written by architect)
    - Focus on system level design
- Implement level Design Document
    - For peer developer (or whoever want to know detail)
    - Focus on component level implementation detail
- Both are important and valuable

Keys of a Good Design Document

- Showing that the requirement is fulfilled

- Describe the design clearly (with Diagram, UML, etc)

- Reveal the reason (benefit) of choosing this design

- List assumptions, risks, issues and future extension

Components of a Design Document

- The goal of this implementation
- High level entities
- For each entity, a detail description
  - How to use
  - How to configure
  - UML Model
  - How does it interact with others
- Benefits, assumptions, risks, and other issues

Design Document Example – Requirement form Customer

- Our hospital registration system needs to be ported to the application running on mobile devices

Design Document Example – Requirement after SA

- ☐ Server Side
  - ◻ Already have a web service available on hospital registration server
- ☐ Client Side
  - ◻ Develop an Android based hospital registration application (ObjectC is the next target)
  - ◻ User can register/login/logout
  - ◻ User are Aministrator, Doctor, Patient
  - ◻ Patient can check his/her history
  - ◻ etc…

User Story for Agile

- As a <type of user>, I want <some goal> so that <some reason>