

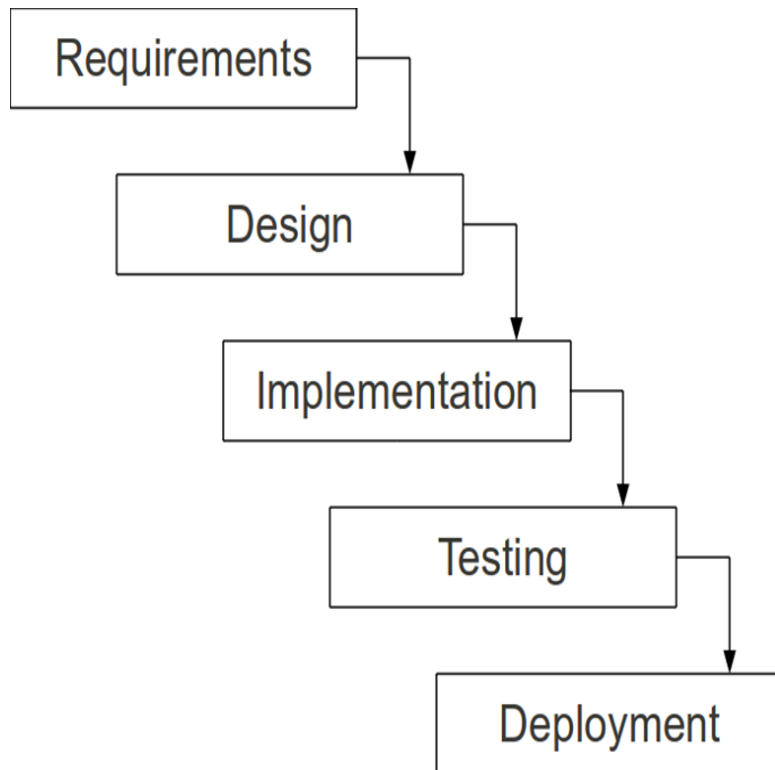
SWEN90016

Software Processes & Project Management

SDLC Process
Medic Case study

Waterfall

What are the Advantages?



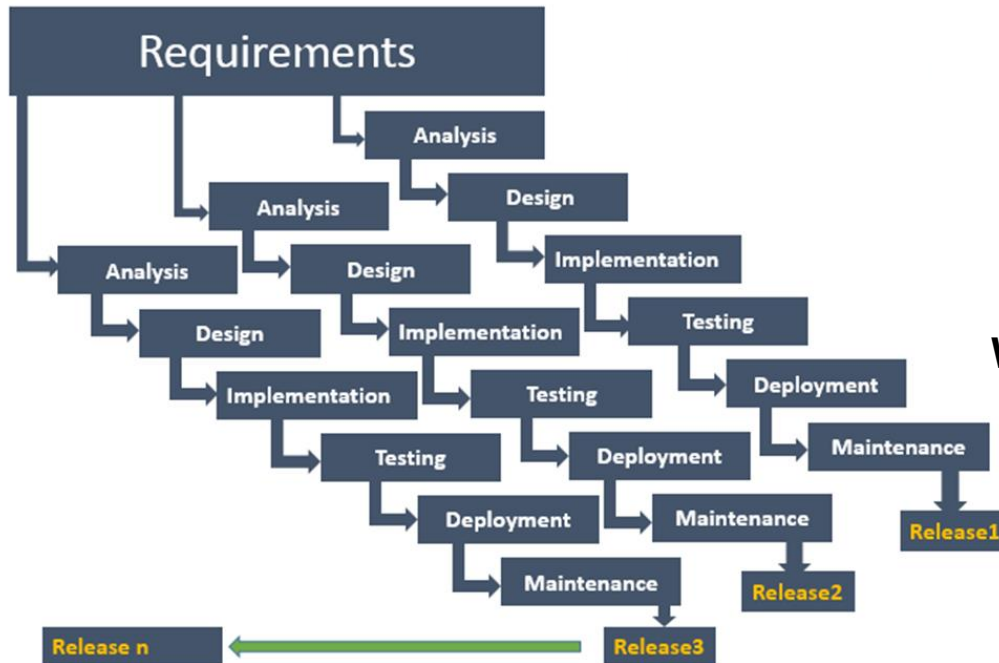
What are the Disadvantages?

Requirement - partition into segments

Releases - mini waterfall process

Integrate modules

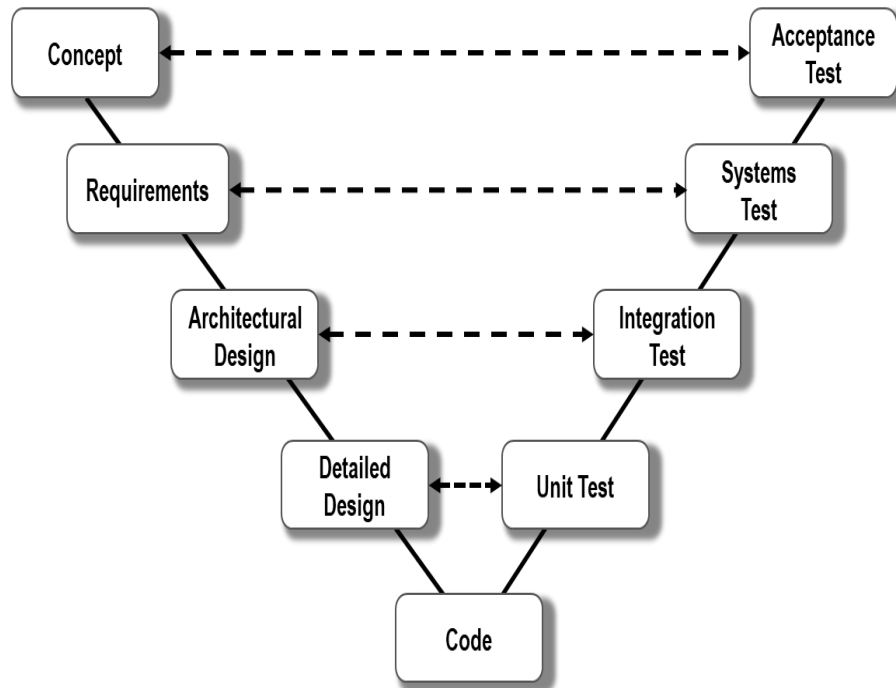
What are the Advantages?



What are the Disadvantages?

V-Model

waterfall model plus defined artifact deliverable
development stage □ □ testing phase



What are the Advantages?

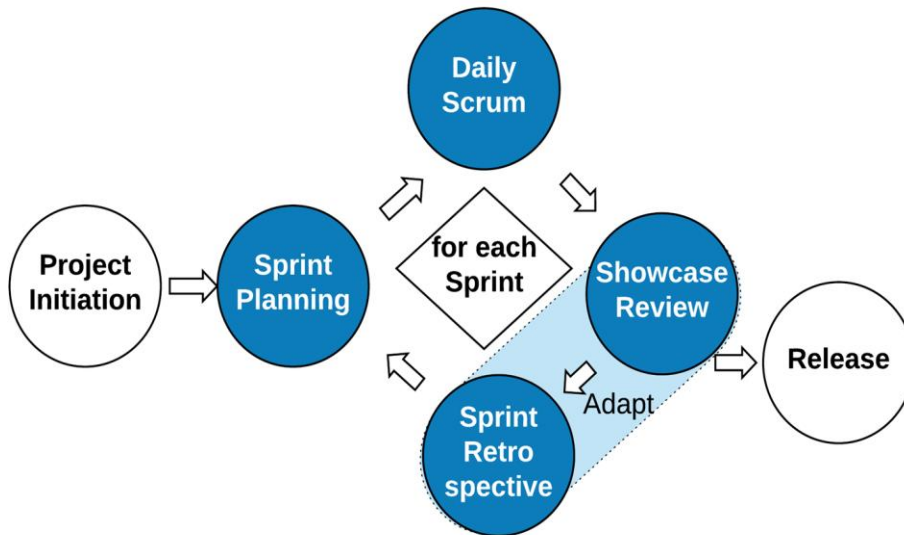
- Simple and easy management
- Rigid and sequential deliverable
- Documentation produced
- Requirements stable and precise

What are the Disadvantages?

- Requires discipline
- Bad news known late in process
- Client feedback known late in process
- Discourages change
- Test artifacts are expensive
- Risks and changes have big impact

Scrum: method to organize working teams

XP: method to improve code quality



What are the Advantages?

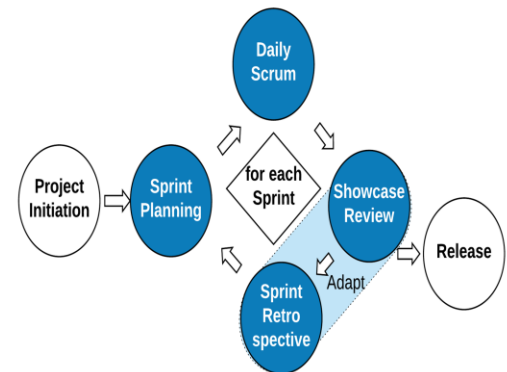
What are the Disadvantages?

Case Study 1

In groups of 4- Determine the goals & key characteristics

Goal

Key Characteristics



Understand the differences between the SDLC
and when to use which one

Waterfall

V-model

Incremental

Agile

Get into 2 groups, **discuss** SDLC processes & activities

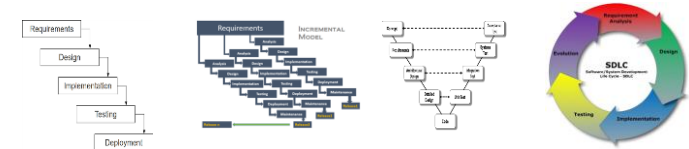
- 1) Consider the project, people & technology
 - 1) Evaluate the team and project constraints.

- 2) Evaluate multiple **SDLC models**
 - 1) Identify the advantages and disadvantages
 - 2) Consider the **outcomes and risks**

- 3) Justify an effective **SDLC process**
 - 1) Defend your choice of SDLC
 - 2) List the activities done

- **Formal:** Requirements Specification
- **Agile:** Product Backlog

When to choose Formal Models?



When to choose Agile Models?



When to choose a hybrid model?

Thank You!