For example:

In a library management system, phases include requirement analysis, system design, implementation testing, deployment and maintenance. Once a phase is fluished, it doesn't return to previous stages.

When to use waterfall Model?

- · Well understood requirements
- · Very 19the manges expected
- · Small to measur stre projects
- · client prefere à l'hear & sequential approach
- · Limited Resources

V Model &

A variation in the representation of the waterfall model is called the V-Model. It is also referred to as the waifflation and validation model. It depicts the relationship of quality assurance actions to the actions associated with with with assurance actions to the actions associated with with with a the very steel in the V-model as the team moves down the left side, requirements are refined into detailed solutions. Once widing is done, they move up the right side, performing tests to validate each development phase, ensuring quality at every step.

Requirement Acceptance Architectural System Component Integration testing Unde Unit generation. When to use V Model? · Clear and stable requirements · Defened testing phases · Low risk of changes · Street quality assurance needs Advantages: · leasy to understand · Sauce a lot of time · Avoids downward flow of defeats Disadvantages? · Rigid & least flexible · Not good for complex projects · No early prototypes of the software are produced. IshoM Lossumers Mi

## Incremental process model:

The Incremental model combines elements of Grear and parallel process flows. It applies applies Unear sequences en a staggered fasher as Calender time progresses. When an incremental model is used, the first increment are often a were product i.e. base requirements are addressed but many supplementary features remain undellused. The core product is used by the untomer ( or undergoes detailed evaluation) As a result, a plan is developed for the next increment. The plan addresses the modification of the core product to better meet the needs of the customer and the delluery of additional features and functionally. This process is repeated following the delivery of each increment suntil the complete product's produced.

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Advantages :

- · errors are easy to be recognized
- · More flexable
  - · leaster to test & debug

Disadvantager?

- · cost is high
- · Need for good planning
- · Well defined module Prierfaces are needed.

Sprral Model &

Originally proposed by Barry Boehm, the spiral model is an evolutionary software process model that wuples the sterative nature of prototyling with controlled & systematic depects of the waterfall model. model. The spiral development model is a risk driven model generator that Ps used to guide multistakeholder uncurrent engineering of software Putensère système. It has two main distinguishing features. One Ps a cyclic approach for incrementally growing a system's degree of definition & Implementation while decreasing its degree of resk. The other Ps a set of anchor point milestones for ensuring stakeholder commitment to feasible & mutually satisfactory system

A spiral model & divided into a set of framework activities defened by the software engineering team

