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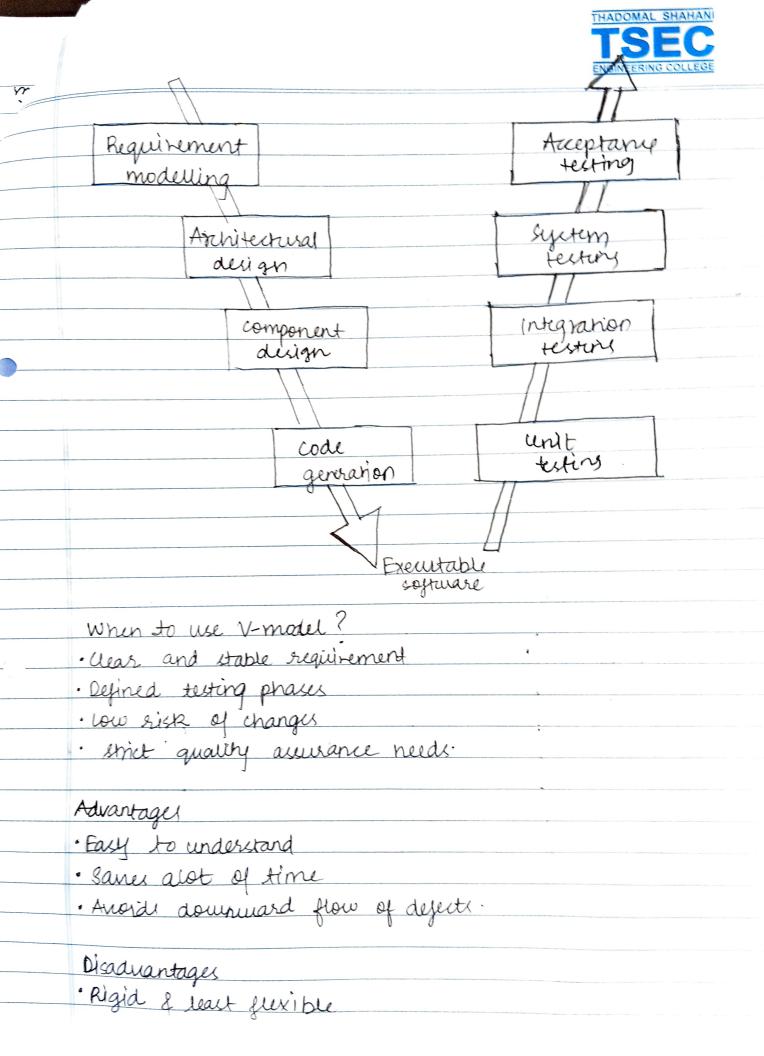
	SUFTWAKE ENGINEERING & PROJECT MANAGEMENT
1	WATERPALL MODEL
	The waterfall model sometimes called the classic life cycle
	suggests a systematic, sequential approach to confuse
	development that begins with untomer specification of
	sequirements and progresses through planning, modeling
	construction and deployment ulminating in ongoing.
	Whose of the completed coltrials:
	A variation in representation of the waterfall model is
	called the V-model
	> communication > Planning > Modeling - convenien
	(communication) / [reducing]
	Deployment
	The waterfall model
*	Advantages
	· Simple and easy to understand
	· Easy to manage
	· Best for smaller projects
	· Individual processing.
*	Disaduantages
	· Inflexible
	· late testing
	· Not witable for enouing projects
	· Not suitable for enduing projects · lengthy development cycle.

For example: In a library management system, phases include requirementation testing deployment analysis, system design implementation testing deployment and maintenance. Once a phase is finished, it abount return to previous stages.

when to use waterfall model?

- · Well understood requirements
- · Nery little changes expected
- · small to medium size projects
- · client prefers a linear & requi sequential approach
- · limited Resources.

A variation in the representation of the waterfall model is latted the V-Model. It is also referred to as the verification and validation model. It depicts the relationship of quality assurance actions to the actions accordated with communication modelling and early construction activities. In the V-model is as the team moves down the left side, requirements are refined into detailed courions. Once coding is done they move up the right side, performing tests to validate each development phase, ensuring quality at every step.



·Not good for complex projecte · No early propages of the software are produced. (3) Incremental Process Model: The incremental model combines elements of linear & parallel process flows. It applies linear sequence in a staggered Jashion as calendar time progresses. When an incremental model is used, the first increment are often a core product re bacic requirements are addressed but many supplementary jeatures remain underivered. The core product is used by the customer (or undergoes détailed evaluation). Le a result, a plan is developed for the next increment. The plan addresses the modification of the core product to better meet the needs and functionality. This process is nepeated following the delinery of each increment, until the complete product is product Build 1 Design & Testing Implementation and development Derign & Testing Implementation Requirement! Build N Design & Testing Implementation
Development Testing

Amantage:-

- · Emors are easy to be recognized.
- · more flexible
- · Easier to test of debug.

Disaduantages

- · Cost in high
- · Need for good planning
- · Well defined module interfaces are needed.

4 SPIRAL MODEL

Originally proposed by Barry Boehm; the spiral model is an evolutionary softwase process model that couples the iterative nature of prototyping with controlled & systematic aspects of the materfall model.

The spiral development model is a risk driven model generator that is used to guide multi-stakeholder consurrent engineering of software intensive systems. It has two main distinguishing features. One is explice approach for insementally growing a system's degree of definition & implementation while decreasing its degree of risk. The other is a set of aninor point milestones for ensuring stakeholder commitment to feature & mutually satisfactory express country.

A spiral model is divided into a set of framework activities defined by the software engineering deam.



1) objective determination & Edentify 2) defutify 4 realine solutions MISALS plan for the next phase product SPIRAL MODEL. Advantages · Risk handling · Good for large projects · curromer satisfaction · Improved quality Disaduantages · complex · Expensive

Spiral model deliners high quality software by promoting suk identification, iterating development of continuous wind feedback when a project is past in software engineering, a spiral model is utilized.

· Difficulty in time management

· Too much dependability on Risk Analysis