## Software Aracesses and Agile Aractices



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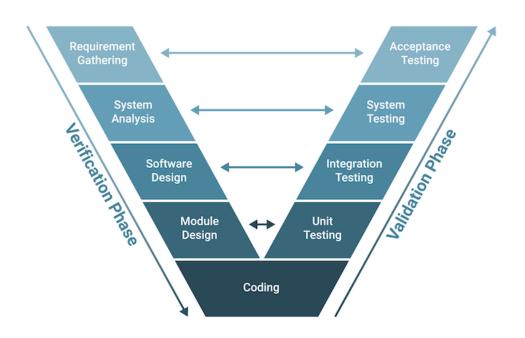
## 1 Software Engineering Activities

PROJECT MANAGEMENT PHASE	SPECIFICATION PHASE	DESIGN & IMPLEMENTATION PHASE	VERIFICATION & VALIDATION PHASE
Creating a Process	Identifying Ideas or Needs	Designing Architecture	Developing Test Procedures
Setting Standards	Eliciting Requirements	Designing Databases	Creating Tests
Managing Risks	Expressing Requirements	Designing Interfaces	Executing Tests
Performing Estimations	Prioritizing Requirements	Creating Executable Code	Reporting Evaluation Results
Allocating Resources	Analyzing Requirements	Integrating Functionality	Reviewing & Auditing
Making Measurements	Managing Requirements	Documenting	Client Demonstrations
Improving Process	Formulating Potential Approaches		Conducting Retrospectives

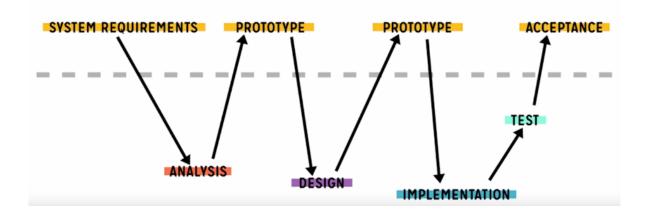
In Cinear Process models follow a pattern of phases completed one after another without repeating prior phases

Les example: waterfall model

In Unlike the waterfull model, V-model divides itself into two branches



Sawtooth model gives you much needed client integration throughout the process



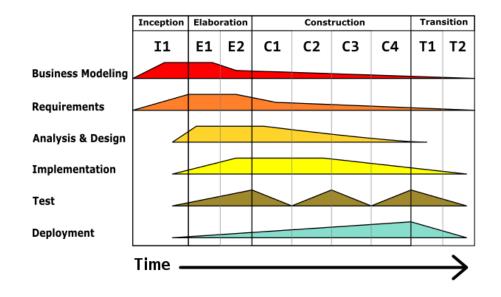
Iterative software process models are ones which allow for repeating stages of the process

1 Spiral Model



Unified process is an iterative model of software development.

It tries to emphasize gradual development as much as
Possible



A Protot	type types
	. Illustrative to shave an idea
	sillustrative sto shave an idea  sexploratory sto study how feasible some  product idea is
	throwaway to learn from Post mistakes
	incremental } let your efforts of putotyping  sevolutionary   carry through to your final product
Continu Continu Commi	uous dolivery allows developers to deliver a product arously as it's being developed. Whenever a developer its a code change, it will be built, tested, integrated
	released
<u>A</u> Lineer	Process models can't work well with Agile Practices
1 There	ave 5 aspects of dove lopment that extreme programming
focu	ses on improving
1	Communication 2) Simplicity 3) Feedback
	Respect 5 Courage



Product Ocurer is just one person not a committee, but helche can represent a committee

Les responsible for changes & prioritization in hacklog

A Scrum Moster Juties to product Owner
Finding techniques to manage the backlog
Ly Helping the scrum team to understand the need for a
Helping the scrum team to understand the need for a clear & concise backlog
the backley to get maximum value
the backley to get maximum value
- Facilitating serum events

A Scrum Moster Juties to Jevelopment team

Scrum Moster Juties to Jevelopment team

coaching the team to self organize

removing Jevelopment roadblocks

Facilitating sevum events

Agile UP combines Agile Proctices with unified process
Lean Principles



Exambon helps Lean Processes to quantify the state of their system & achieve the ideals of Just-In-Time manufacturing

Backlog	Development	Acceptance Testing	Internal Release	Production Release