Software Verification Summary

; 2018 Version

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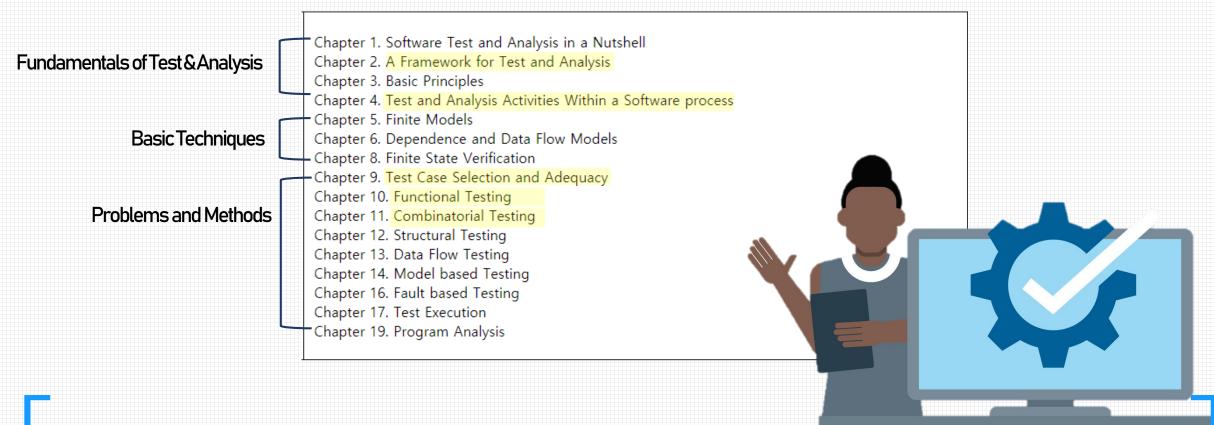
01. Theorical Aspects

02. Our CTIP & Uses

03. Testing with SM Team

01. Theorical Aspects

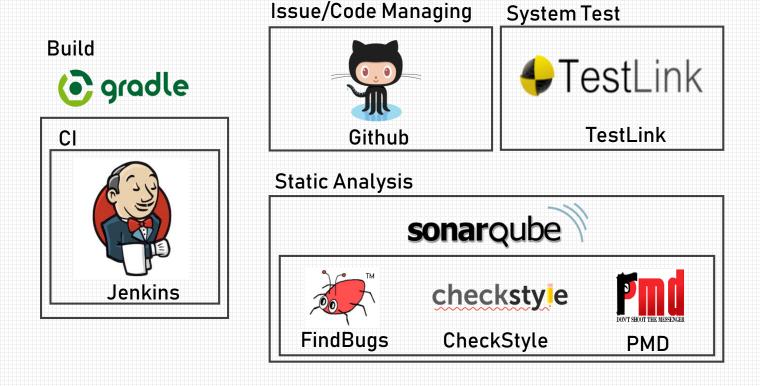
; What was the Ultimate goal of this lecture?



Provide the rationale for selecting and combining them within a software development process

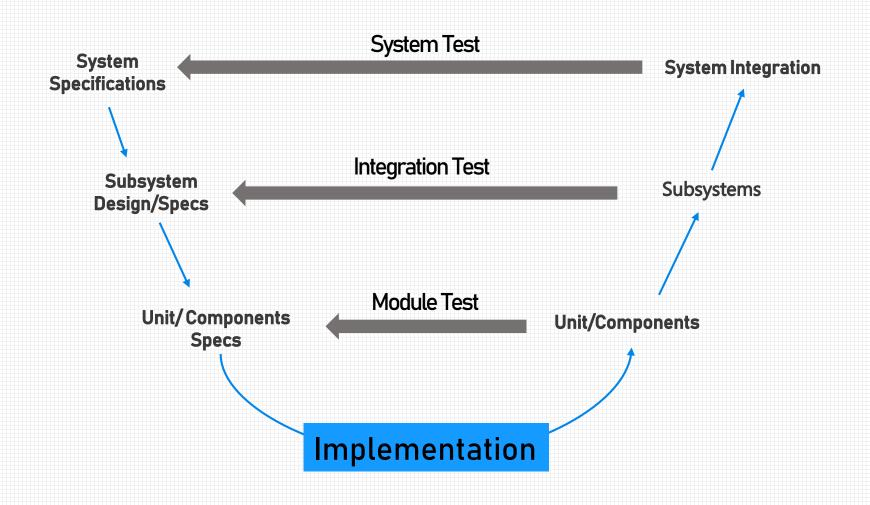
02. Our CTIP & Uses

; Which part was most useful during the project?



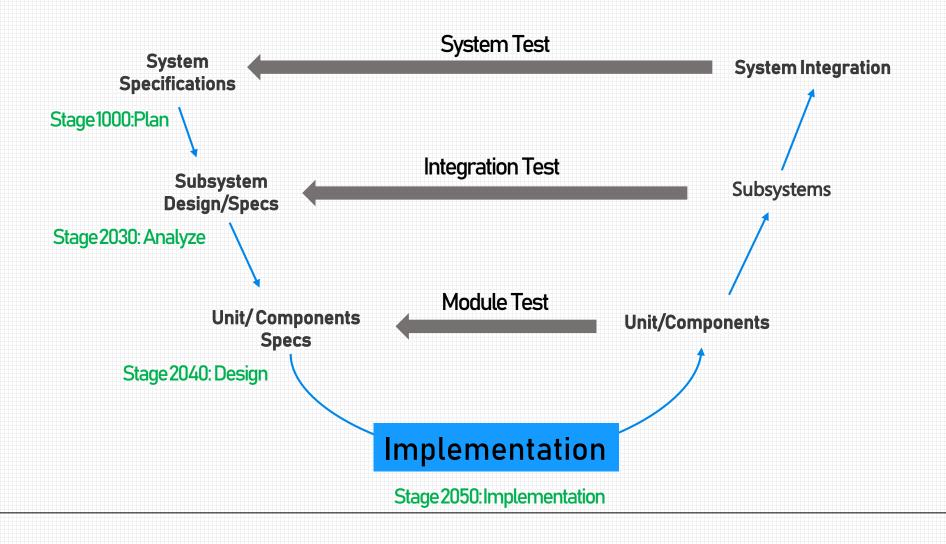
03. Testing with SM Team

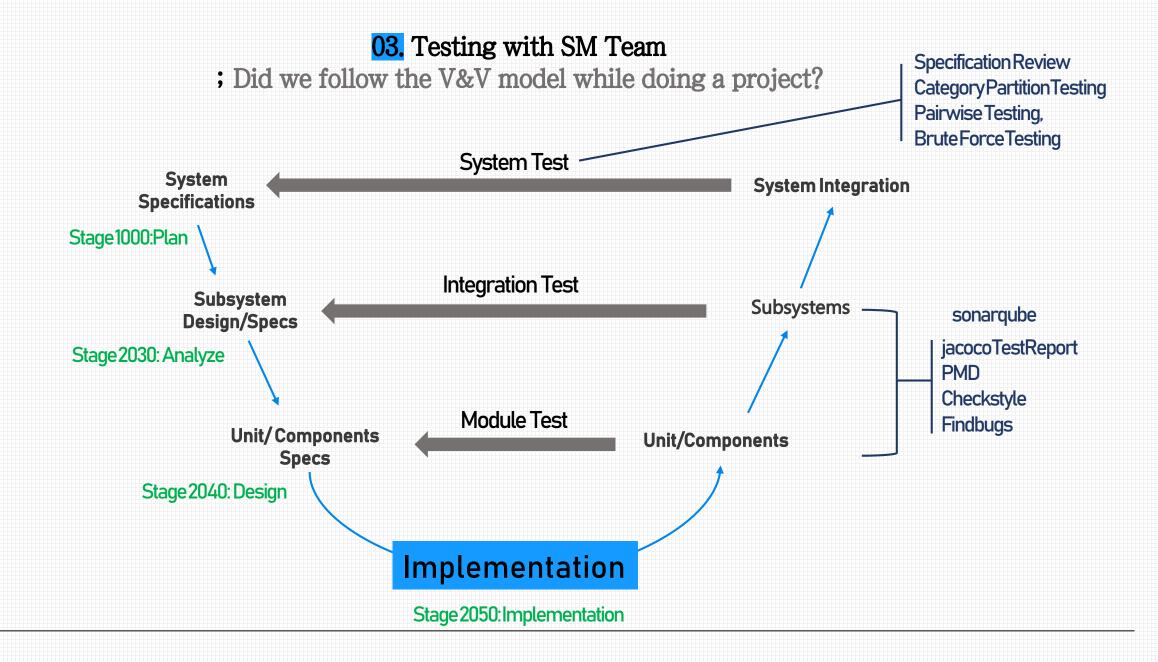
; Did we follow the V&V model while doing a project?



03. Testing with SM Team

; Did we follow the V&V model while doing a project?







01. When construct CTIP02. When Testing with SM Team

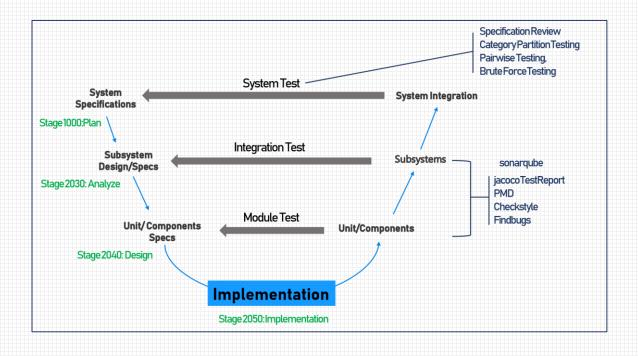
- CPT and Static Analysis
- Thoughts about Team project

01. When Construct CTIP

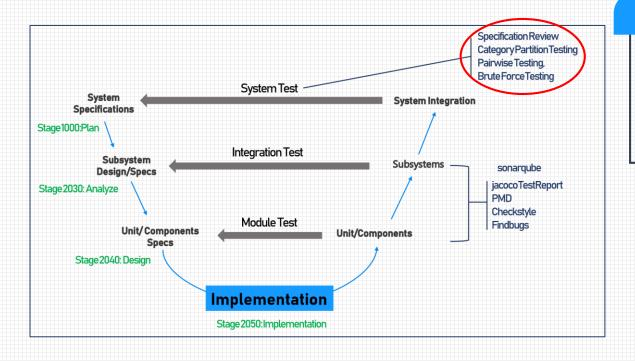
; In different perspective, what's the pros and cons of using CTIP?

		as a Software Developer	as a Software Quality Engineer
Pros	SV	Convenient Build	Automatically verified code
		Offer Convenience by removing some static error	Convenient to check result
	SM	Helpful not to forgetting the issues and problems	
		Make easy to Cooperate with team	
		Can fix the bad habits when coding	
Cons	SV	Misuse of rules and tools can cause more error and warning (More Stress)	Be aware that tools are not complete
			Analyze outcome ability is positively necessary
		Need to know how to use tools	Maintenance cost of Server
			Using right amount of tools (More doesn't mean better)

; Category Partitioning and Static Analysis?



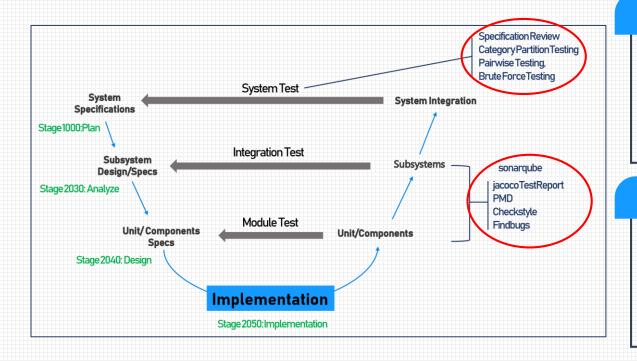
; Category Partitioning and Static Analysis?



CPT

- * Using Representative value > Easy to catch Boundary Error.
- *TSL(tool)+Constrains > Effective than work manually.
- * Practice several times is much helpful than read text.
- * Divide situation MECE will helpful.

; Category Partitioning and Static Analysis?



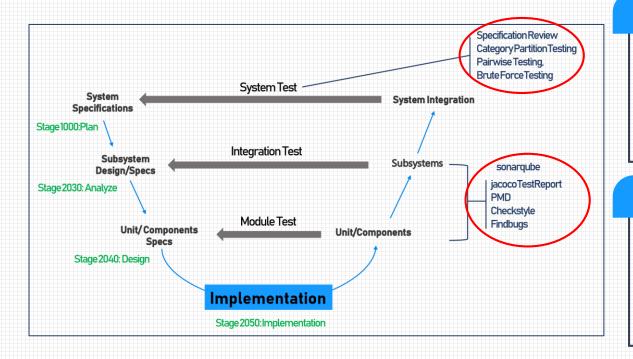
CPT

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Static Analysis

- * Requirement coverage is more important.
- * Need to check convention for each project.
- * It gives us useful information. But, too much.
- * Anyway we have to review again manually.

; Category Partitioning and Static Analysis?



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Overall

We don't have plenty time to think about V&V model. It is hard to implement theorical aspects that we've learned.

; Thoughts about Team project _ Verification Team



It was so shame that we had a difficulty in communication although we both try hard.

If communication went smoothly and actively we could perform better

Also Wish there was a clear deadline when upload new version of documents,

and It would be nice if the reasons for the modified or unmodified parts.

Because we don't know there intention, been through tough days while doing second reviewing



I already took the software modeling class before, It was easy in some parts.

On the other hand, I could not point out all the mistakes because the amount was huge Also, Wish there was a sharing session about the Planning.

If we knew the background of Why they choose to make that system, we could communicate each other more effectively

; Thoughts about Team project _ Modeling Team



Through the project we can revising the documents, due to Verification team support.

And this experience make us more careful when writing a documents,

Because we don't have enough time, hard to communicate smoothly and lead to discordance between code and documents.

After revising the documents we faced newly discovered mistakes. So, we have to modify the code and documents again and again. It makes hard to focus on developing process.



01. Suggestions

; Software Verification & Software Modeling

- Teaching how to use tools or offering Example case would be better.
- It is necessary for each team to start communication before developing.
- Choosing tools are free, but it would be nice to have a basic default guide line.
- Pointed out the theorical part once more during the lab session would be helpful.
- Since SM Team has not been taught about quality process, seems need to learn some details of the SV class.
- Reducing the environment construction time, increasing the opportunity or time to test can help to get better skills.

