



Software Architecture Module 5 Architecture & testing

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Architecture & testing



How does architecture help in testing activities?

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- Arch helps prioritize test cases based on ASRs
- Architecture can help in creation of integration test plan
- Architecture needs to be designed to support testability requirements

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Arch helps prioritize test cases based on ASRs

• What work product of architecture design can we use to prioritize the test cases?

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Utility tree can be used to identify high priority scenarios (high on business value and high on architectural impact) which will translate into high priority test cases



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Architecture can help in creation of integration test plan

How?

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Architecture can help in creation of integration test plan

How?

- Architecture tells us what modules interact with each other
- Architecture tells us which modules depend on which other modules.
- This helps us identify integration test cases and identify modules needed for integration testing

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Architecture needs to be designed to support testability requirements such as

- Ability to switch data sources (Test data & Production data)
- Roll back changes made by test cases (to restore system to original state, so that we can execute more test cases later)
- Ability to replace components (simulators of payment gateway, sensors, external systems such as Aadhar system)



Experience sharing

Can you describe how your architect helped the testing team?

Appendix