

1. Why is traceability important for release confidence and UAT readiness?

Traceability creates a clear link between requirements, test cases, and defects, ensuring nothing is missed. It builds release confidence by providing metrics like test coverage percentage and pass rates, so teams know the software is stable. For UAT readiness, it verifies all user stories are tested end-to-end, helping stakeholders approve confidently without surprises.

2. What problems occur when requirements are not linked to test cases?

Without links, teams can't spot coverage gaps, leading to untested features and bugs reaching users. It causes redundant testing efforts, poor regression impact analysis, and confusion in audits or compliance checks. Overall, projects face delays, higher costs, and lower quality as changes propagate blindly.

3. Explain how AI-generated artifacts (tests/websites) must be validated using human quality gates.

AI tools generate tests or websites fast from requirements but lack deep context, missing edge cases or business rules. Human quality gates involve reviewers checking traceability, logic accuracy, and usability through manual runs or inspections. This step adds expert tweaks, ensures compliance, and gates deployment until verified reliable.