

ISM101 – Information Systems Management

Knowledge Check #5

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1. Explain the difference between verification and validation of requirements with examples.

A: Verification ensures that the requirements are correctly documented, Validation ensures that the requirements meet the user's needs.

Continuing with the cellphones e-commerce, used in the previous lessons, let's imagine the hipotetic scenery:

If a requirement states that "users should be able to filter cellphones by brand, price, and ratings,"

While verification ensures that the filtering feature works exactly as described in the requirements, validation checks if the right system was built to meet the user's needs and expectations. Do they easily find and use the filters when searching for a new cellphone?

2. Describe the importance of effective communication with development teams in requirements management. Provide an example.

A: Effective communication with development teams is crucial because it ensures that everyone understands the scope, objectives, and specifics of the project. Clear communication helps prevent misunderstandings, reduces errors, and keeps the project on track.

In a cellphone e-commerce app, if the requirement is to allow users to "filter products by ratings," the product owner should communicate the exact filtering logic to the development team (e.g., "ratings should be based on user reviews, with 1 to 5 stars"). Clear communication avoids ambiguity, ensuring the development team builds the feature as intended, without unnecessary changes or delays later.

3. How can feedback mechanisms and review meetings help in requirements management?

A: Feedback mechanisms and review meetings help ensure that the requirements are clear, well-understood, and accurately implemented

4. Discuss the significance of traceability between requirements and test cases.

A: Traceability between requirements and test cases ensures that all project requirements are tested and met. By linking test cases to specific requirements, you can confirm that each requirement has been verified, helps QA teams ensure comprehensive test coverage, reducing the chances of defects, provides a clear audit trail that demonstrates to stakeholders, ensures that the system meets legal or regulatory requirements, etc

5. How do ethical dilemmas in requirements analysis impact the development process, and what are some strategies to address them?

A: Ethical dilemmas in requirements analysis can significantly impact the development process by leading to biased decisions, misaligned priorities, and potentially harming users or stakeholders.

Some strategies to address it:

1. Involve a diverse group of stakeholders in requirements;
2. Establish and follow clear ethical principles, such as prioritizing user safety, privacy, and transparency, when collecting and analyzing requirements.
3. Be transparent with stakeholders about trade-offs and limitations.
4. Focus on creating solutions that prioritize user well-being, security, and accessibility to ensure the final product aligns with ethical standards.
5. Implement periodic reviews where ethical concerns and potential biases are examined