

Information Technology University of the Punjab
SE202T Software Requirement Engineering – Fall 2024
Quiz 5 Solution – November 29, 2024

Name: _____

Roll No.: _____

Time allowed: 30 minutes

Short Questions (6 Questions)

1. **How does the Vision Document help teams develop a shared understanding of the project scope?**
 - **Slide Number:** 6 (Lecture 18)
 - **CLO:** 2 - Understanding user and stakeholder needs(18-Introduction To SRE ...).
2. **Develop a prioritized requirements baseline for a hypothetical online shopping system. How would you categorize features?**
 - **Slide Number:** 12-13 (Lecture 19)
 - **CLO:** 3 - Defining system requirements(19-Introduction To SRE ...).
3. **What are the four categories of Non-Functional Requirements, and how would you apply them to a hospital management system?**
 - **Slide Number:** 7 (Lecture 21)
 - **CLO:** 2 - Managing ambiguity and specificity(21-Introduction To SRE ...).
4. **Use a scenario to describe how you would develop a Use Case for an ATM system handling a cash withdrawal.**
 - **Slide Number:** 14 (Lecture 26)
 - **CLO:** 3 - Refining system definition(26-Introduction To SRE ...).
5. **Apply traceability to link the Vision Document of a healthcare system to its supplementary requirements.**
 - **Slide Number:** 6 (Lecture 25)
 - **CLO:** 3 - Assessing requirements quality(25-Introduction To SRE ...).

6. **Given a scenario where a project is over-scoped, explain how you would apply scope reduction techniques to ensure project success.**
 - **Slide Number:** 15-16 (Lecture 19)
 - **CLO:** 2 - Defining system requirements(19-Introduction To SRE ...).
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Long Questions (4 Questions)

1. **Develop a Vision Document for a smart home system, focusing on stakeholder needs, high-level requirements, and potential challenges. How would you apply this document to align team efforts?**
 - **Slide Number:** 6-10 (Lecture 18)
 - **CLO:** 2 - Understanding user and stakeholder needs(18-Introduction To SRE ...).
2. **Given a scenario where the system must handle simultaneous logins for 500 users, discuss how to develop and apply Non-Functional Requirements like performance and reliability to meet this goal.**
 - **Slide Number:** 7 (Lecture 21)
 - **CLO:** 3 - Managing ambiguity and specificity(21-Introduction To SRE ...).
3. **Develop a set of test cases for a library management system based on Use Cases. Apply these test cases to validate both functional and non-functional requirements.**
 - **Slide Number:** 12-17 (Lecture 24)
 - **CLO:** 3 - Assessing requirements quality(24-Introduction To SRE ...).
4. **Using a scenario of an e-commerce platform, explain how you would develop and apply technical methods such as pseudocode or activity diagrams to specify the requirements for the checkout process.**
 - **Slide Number:** 7-14 (Lecture 22)
 - **CLO:** 2 - Refining system definition(22-Introduction To SRE ...).