

EXERCISE - 3: Requirement Analysis

Objective: Develop a Specification Document of the Proposed Solution

Tools/ Device: SRS Template

Procedure:

1. Prepare a standard Software Requirements Specification (SRS) document that specifies the System's Functional Requirements, Non-Functional Requirements, and Project Development Constraints.
2. Your Specification document must address the following questions:

Evaluation: Your specification document must address the following questions:

1. Do the functional requirements demonstrate the functionality of the software? Do the functional requirements have been leveled accordingly? Do the functional requirements have been prioritized?
2. Do the non-functional requirements demonstrate the qualities of the software? Do the non-functional or quality requirements are quantifiable measure? Do the non-functional requirements have been prioritized?
3. Do the project requirements demonstrate the system development constraints, also prioritized, and leveled appropriately?

Example: Functional Requirements

1. Software Login

Functional Requirements

- 1.1 The software shall allow users to login with their given username and password.
- 1.2 The login credentials (username and password) will be verified with database records.
- 1.3 If the login successful the home page of the user account will be displayed.
- 1.4 If the username and/or password has been inserted wrong, the random verification code will be generated and sent to the user's email address by the system to retry login.
- 1.5 If the number of login attempt exceed its limit (3 times), the system shall block the user account login for one hour *[optional function]*

Priority Level: High

Precondition: user have valid user id and password

Cross-references: 4.1, 7.2 (example)

Example: Non-Functional Requirements

Usability: *A trained user shall be able to submit a complete request for a chemical selected from a vendor catalog in an average of four and a maximum of six minutes.*

Example: Project Requirements

Tools: *The system developer needs selenium tools in perform testing activities in week 6*