## **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

# **Software Login**

**Functional Requirements**

* 1. The software shall allow users to login with their given username and password.
  2. The login credentials (username and password) will be verified with database records.
  3. If the login successful the home page of the user account will be displayed.
  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.
  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, 9 (example)

Example: Non-Functional Requirements

**QA1: 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.*

**Priority Level:   
Precondition:**   
**Cross-references:** QA3, QA5 (example)

Example: Project Requirements

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