LAB NO: 1   Date:

REQUIREMENT GATHERING AND IMPLEMENTATION IN JAVA

Objectives:

In this lab, student will be able to

- Collect the system requirements
- Implement the system requirements in Java

Introduction:

A requirement is a statement about an intended product that specifies what it should do or how to do it. For requirements to be effectively implemented and measured, they must be specific, unambiguous and clear. For example, a requirement may be that a specific button must enable printing of the contents of the current screen.

Functional requirements specify the software functionality that the developers must build into the product to enable users to accomplish their tasks, thereby satisfying the business requirements, example legal/regulatory requirements. In simpler words, functional requirements state what the system must do. Non-functional requirements define the system's quality characteristics, example scalability. Requirement gathering can be done by interviews, questionnaires, direct observation, indirect observation, studying documentation, researching similar products etc.

Lab exercises:

1. Collect the requirements for Order Processing System

2. Implement in Java for the functionalities identified in Q1. [Minimum eight functionalities]

Additional Exercise:

1. Collect the requirements for Crisis Management System

2. Collect the requirements for Online College Registration System and implement any eight functionalities in Java