



Laboratory Report

Experiment No - 02

Batch -

Date of Experiment: _____

Date of Submission: _____

Title: Develop Software Requirement Specification (SRS) document in IEEE format for the project.

Evaluation:

1) Attendance [2] _____

2) Lab Performance [2] _____

3) Oral [1] _____

Overall Marks [5] _____

Subject In-Charge

Experiment No: - 02

TITLE: Develop Software Requirement Specification (SRS) document in IEEE format for the project.

PREREQUISITE:

1. Concepts of Object Oriented Programming & Methodology
2. Knowledge of developing applications with front end & back end connectivity.

HARDWARE CONFIGURATION / KIT:

Sr. No	Minimum Hardware Configuration	
1	Processor	800MHz Intel Pentium III or above versions
2	RAM	512 MB
3	HDD	1.5 GB of free disk space

SOFTWARE CONFIGURATION:

Sr. No	Minimum Software Configuration	
1	Operating System	Microsoft Windows Vista/7 or above versions
2	Editor	MS Word, Notepad

Theory: -

1. Introduction to SRS

A **software requirements specification (SRS)** is a description of a software system to be developed. The software requirements specification lays out functional and non-functional requirements, and it may include a set of use cases that describe user interactions that the software must provide.

Software requirements specification establishes the basis for an agreement between customers and contractors or suppliers on how the software product should function. Software requirements specification is a rigorous assessment of requirements before the more specific system design stages, and its goal is to reduce later redesign. It should also provide a realistic basis for estimating product costs, risks, and schedules. Used appropriately, software requirements specifications can help prevent software project failure.

The software requirements specification document lists sufficient and necessary requirements for the project development. To derive the requirements, the developer needs to have clear and thorough understanding of the products under development. This is achieved through detailed and continuous communications with the project team and customer throughout the software development process.

A software requirements specification (SRS) is a document that captures complete description about how the system is expected to perform. It is usually signed off at the end of requirements engineering phase.

2. Goals

The Software Requirements Specification (SRS) is a communication tool between users and software designers. The specific goals of the SRS are:

- Facilitating reviews
- Describing the scope of work
- Providing a reference to software designers (i.e. navigation aids, document structure)
- Providing a framework for testing primary and secondary use cases
- Including features to customer requirements
- Providing a platform for ongoing refinement (via incomplete specs or questions)

3. Qualities of SRS:

- Correct
- Unambiguous
- Complete
- Consistent
- Ranked for importance and/or stability
- Verifiable
- Modifiable
- Traceable

Exercise: -

Prepare SRS for the project you have selected for the Experiment No 1.

Conclusion: -

A **Software Requirements Specification (SRS)** (also known as a System Requirements Specification) is a document or set of documentation that describes the features and behavior of a system or software application. It includes a variety of elements that attempts to define the intended functionality required by the customer to satisfy their different users.