ASSIGNMENT NO : 1

**Q)What is a Software Requirements Specification document?**

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

A Software Requirements Specification (SRS) is a document that describes the nature of a project, software or application. In simple words, SRS document is a manual of a project provided it is prepared before you kick start a project/application. This document is also known by the names SRS report, software document. A software document is primarily prepared for a project, software or any kind of application.

**Functional Requirements:**

In Software engineering and systems engineering, a **functional requirement** defines a function of a system or its component. A function is described as a set of inputs, the behavior, and outputs.

Functional requirements may be calculations, technical details, data manipulation and processing and other specific functionality that define *what* a system is supposed to accomplish.[1] Behavioral requirements describing all the cases where the system uses the functional requirements are captured in use cases.

**Non-functional requirement**

In systems engineering and requirements engineering, a **non-functional requirement** (NFR) is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specific behaviors. They are contrasted with functional requirements that define specific behavior or functions. The plan for implementing *functional* requirements is detailed in the system *design*.

A Software requirements specification document describes the intended purpose, requirements and nature of a software to be developed. It also includes the yield and cost of the software.

Requirements documentation is the description of what a particular software does or shall do. It is used throughout development to communicate how the software functions or how it is intended to operate. It is also used as an agreement or as the foundation for agreement on what the software will do. Requirements are produced and consumed by everyone involved in the production of software: end users, customers, product managers, project managers, sales, marketing, software architects, usability engineers, interaction designers, developers, and testers, to name a few. Thus, requirements documentation has many different purposes.

**Q) Who reads the SRS document at Developer side?**

**Ans** : This document is to be read by the development team, the project managers, marketing staff, testers and documentation writers.

**Q) Who reads the SRS document at Customer side?**

**Ans** : Stakeholders, company manufacturing associated hardware, company providing embedded operating system, shareholders and distributors who markets the finished product, may review the document to learn about the project and to understand the requirement

Q)**Why Do Developers and Customers read SRS document ?**

**1)Customers & User:**

**interested in system requirements but not detailed software requirements**

The user of this program reviews the diagrams and the specifications presented in this document and determines if the software has all the suitable requirements and if the software

developer has implemented all of them.

**2) Developers , Programmers: Have to implement the requirements**

The developer who wants to read,change,modify or add new requirements into

the existing program,must firstly consult this document and update the requirements with

appropriate manner so as to not destroy the actual meaning of them and pass the information

correctly to the next phases of the development process.

**3)Tester : Have to check that the requirements have been met**

The tester needs this document to validate that the initial requirements of this

programs actually corresponds to the executable program correctly.

**4)Systems (Requirements) Analysts : Write other specifications that inter-relate**

**5 ) Project Managers : Have to measure and control the project**

ASSIGNMENT NO : 2

Q) Draw use case diagram for E – Khadya Suraksha Project

