**Lab 8**

**Name**: Akshat Verma

**RollNo**.:2100290130020

# SOFTWARE REQUIREMENT SPECIFICATIONS (SRS)

1. **Introduction**
   1. Purpose

This document outlines the requirements for [Software Name], aiming to provide a clear understanding of the functionalities and constraints of the system.

* 1. Scope

[Software Name] is a [brief description of the system, its functions, and its intended users].

* 1. Definitions, Acronyms, and Abbreviations

[Terminology, acronyms, or abbreviations used throughout the document.]

* 1. References

[Documents or resources referred to in the SRS.]

# Overall Description

* 1. Product Perspective

[How the software interacts with other systems or software components.]

* 1. Product Features

[Key features and functionalities of the software.]

* 1. User Classes and Characteristics

[Different types of users and their roles in the system.]

* 1. Operating Environment

[Hardware, software, and network requirements for the system.]

* 1. Design and Implementation Constraints

[Limitations or constraints that may affect the design or implementation of the software.]

* 1. User Documentation

[User manuals or documentation provided with the software.]

* 1. Assumptions and Dependencies

[Assumptions made during the requirements gathering process and dependencies on external factors.]

# System Features

[Detailed description of each system feature, including inputs, outputs, functionality, and user interaction.]

# External Interface Requirements

* 1. User Interfaces

[Interfaces visible to the users, including screenshots or mock-ups if available.]

* 1. Hardware Interfaces

[Any hardware devices or peripherals the system interacts with.]

* 1. Software Interfaces

[Any third-party software or APIs the system integrates with.]

* 1. Communication Interfaces

[Any network protocols or communication methods used by the system.]

# Non-functional Requirements

* 1. Performance Requirements

[Any performance metrics or benchmarks the system must meet.]

* 1. Security Requirements

[Security measures and protocols implemented to protect the system and user data.]

* 1. Software Quality Attributes

[Quality attributes such as reliability, maintainability, and usability.]

# Other Requirements

[Additional requirements not covered in the previous sections.]

# Appendices

[Optional section for additional information, such as diagrams, mock-ups, or supplementary documents.]