

**The Remote Calculator**

**Software Requirement Specification (SRS) Document**

**Sprint Implementation**

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### Introduction: -

The introduction of the software requirement specification provides an overview of the entire software. The entire SRS with overview description purpose, scope, tools used and basic description. The aim of this document is to gather, analyze and give an in-depth insight into the complete Remote Calculate by defining the problem statement in detail. The detailed requirements of the Remote Calculate are provided in this document

**1.1Purpose**: Remote Calculator relieves the user of the need to do mental operations and of the need not to rely on paper.

**1.2Intended Audience:-**This document is intended to be read by Client.

**2.Overall Description:**

Connection established between server and client, Then the login is successful in admin mode of server side then only the further process will continue otherwise it will disconnected. After successful login, Server will takes the inputs from the client like number of arguments, operations so on. Server performs some operations like addition, subtraction, so on. After operation to be done then server sends the result to the client.

**2.1 Assumptions and Dependency:-**

* User should have the latest version of Ubuntu Linux installed.
* Usershould have minimum 4GB RAM.
* The service is available on a desktop or laptop

**3.Flow Charts**

**3.1 Overview of Server Client**

Connection b/w Client & Server

Performs Operation in server

Exit or Disconnected

Send the Result to the client

Take the inputs from client

If login is successful

Inputs like no of arguments, no of operations etc

**YES**

**NO**

**3.2 Client side**

**NO**

Connection established With Server

Provide inputs

If login is successful

Exit or Disconnection

Result

Inputs like no of arguments, no of operations etc

**YES**

**3.3 Server side**

Connection with Client

Perform Operations

Exit or Disconnected

Send the Result to the client

Take Inputs from client

If login is successful

Inputs like no of arguments, no of operations etc

**YES**

**NO**

**4.System Features and Requirements:**

**4.1 Functionality:**

4.1.1 LTR\_01-> **Login Functionality:** In admin mode of server side, client should login by providing username and password.

4.1.2 LTR\_02-> **Add the number of arguments to be inputted followed by the numbers:** In admin mode of server side, client should provide the inputs like number of arguments followed by the numbers.

4.1.3 LTR\_03-> **Add the number of operations to be performed:** In admin mode of server side, Client should gives the input to the server like number of operation to be performed.

4.1.4 LTR\_04-> **Input the operator using ; separator:** In admin mode of server side, Client should gives the input to the server like operator which is separated by semicolon.

4.1.5 LTR\_05-> **Formulate the problem to be calculated:** In user mode of server side, client should specifies which operation to be performed.

4.1.6 LTR\_06-> **Perform the required calculations:** In User mode of server side, the operation is performed by the server.

4.1.7 LTR\_07-> **Fetch the results from the server:** In user mode of client side, server send the results to the client.

**4.2 System Requirements:**

* Linux based operating system with GCC compiler
* Coding language: C Programming
* System: Intel IV 2.4 GHz
* Hard Disk: 100 GB
* Ram: 4 GB

**4.3 System Features:**

### Supportability:The system is easy to maintain.

* Design Constraints:The system is built using only C language. So the constraints of C language are applied to it..
* Reliability & Availability: The system is available when the user is requested for service. The system is available 24/7.
* Performance: The system will work on the user’s terminal.