# **Software Requirements Specification (SRS) Document**

# **Project: CDR Creation Application**

# **Table of Content**

# **Introduction**

* 1.1. Purpose
* 1.2. Scope
* 1.3. Document Conventions
* 1.4. References

**System Overview**

* 2.1. Description
* 2.2. Overall Description

**Functional Requirements**

* 3.1. User Interface
* 3.2. Use Cases
* 3.2.1. Create CDR
* 3.3. User Roles

**Non-Functional Requirements**

* 4.1. Usability
* 4.2. Reliability

**Development/Execution Platform**

* 5.1. Platform Details
* 5.2. Technology Stack

**Other Requirement**

6.1. External Interfaces

6.2. Reference Documents/Video

6.3. Remarks

### 1. Introduction

### **1.1. Purpose**

This document specifies the requirements for the CDR Creation Application, outlining functionalities, interfaces, and constraints essential for successful development and implementation.

### **1.2. Scope**

The CDR Creation Application allows users to generate Call Detail Records (CDRs) by providing input parameters such as Account Information, Usage ID, Jurisdiction, Rate Period, Date, and Duration.

**1.3. Document Conventions**

This document follows a structured format for clear and organized information presentation.

### **1.4. References**

* **Author/Owner:** Vijay Ram
* **Project Name:** CDR Creation

## **2. System Overview**

### **2.1. Description**

The CDR Creation Application is a user-friendly tool enabling users to input data necessary for generating Call Detail Records (CDRs). The application facilitates the creation of CDR files by incorporating user-provided parameters such as Account Information, Usage ID, Jurisdiction, Rate Period, Date, and Duration.

**2.2. Overall Description**

The application is envisioned as a full-stack solution, integrating front-end and back-end technologies to capture, process, and generate CDR files based on specified input parameters.

**3. Functional Requirements**

### **3.1. User Interface**

The application shall provide an intuitive and interactive user interface allowing users to input necessary data for CDR generation.

### **3.2. Use Cases**

#### 3.2.1. Create CDR

* **Description:** Admin can generate CDR files by providing input parameters including Account Information, Usage ID, Jurisdiction, Rate Period, Date, Duration, etc.
* **Preconditions:** Admin authentication and authorization.
* **Postconditions:** CDR file successfully generated with provided information.

### **3.3. User Roles**

* **Admin:** Authorized to create CDR files.

## **4. Non-Functional Requirements**

### **4.1. Usability**

* The application's user interface shall be intuitive and easy to navigate.
* Clear and informative error messages shall guide the user in case of incorrect input or system errors.

### **4.2. Reliability**

* The application shall maintain a backup of generated CDR files to ensure data integrity and facilitate recovery if needed.

**5. Development/Execution Platform**

**5.1. Technology Stack**

* **UI Framework:** Angular/HTML 5
* **Middle-ware:** Java SpringBoot
* **Back-end Database:** MySQL
* **Server:** Apache Tomcat
* **Build Tool:** Maven

## **6. Other Requirements**

### **6.1. Reference Documents/Videos**

No specific references at the moment.

**6.2. Testing Requirements**  
 The application shall undergo rigorous testing to ensure functionality, usability, and performance meet specified requirements.

### **6.3. Remarks**

* The project is expected to enhance understanding of Billing, Account/Service hierarchy, Rating process, Usage Types, and Test data generation/Masking.

This Software Requirements Specification (SRS) document provides a comprehensive overview of the requirements for the CDR Creation Application. It serves as a vital reference for the development team, ensuring the application is constructed to meet the specified functional and non-functional requirements.