Template - Requirements Specifications Document

# Introduction - *This introduction is very important as it sets expectations that we will come back to throughout the SRS.*

## Purpose -*the purpose of this project is to analyze the behavior, and condition of customers so that the company can provide them customized offers to buy insurance policies and also calculate royalties to those customers who bought policies In the past to enhance the revenue of the company. Define the purpose of these requirements here.*

## Intended Audience and Use - *Define who in your organization will have access to the SRS and how they should use it. This may include developers, testers, and project managers.*

## Product Scope – *What are the benefits, objectives, and goals we intend to have for this product? This should relate to overall business goals, especially if teams outside of development will have access to the SRS.*

## Definitions and Acronyms -*Clearly define all key terms, acronyms, and abbreviations used in the SRS. This will help eliminate any ambiguity and ensure that all parties can easily understand the document.*

# Overall Description – We are going to build a data pipeline that will help the company to make appropriate business strategies. This pipeline will provide customer behavior and condition reports, to create insurance policies according to the condition of customers and provide them with customized offers. *Your next step is to give a description of what you’re going to build. Why is this product needed? Who is it for? Is it a new product? Is it an add-on to a product you’ve already created? Is this going to integrate with another product? Understanding and getting your team aligned on the answers to these questions on the front end makes creating the product much easier and more efficient for everyone involved.*

## User Needs - *Describe who will use the product and how. Understanding the various users of the product and their needs is a critical part of the SRS writing process.*

## Assumptions and Dependencies - *What are we assuming will be true? Understating and laying out these assumptions ahead of time will help with headaches later. Are we assuming current technology? Are we basing this on a Windows framework? We need to take stock of these technical assumptions to better understand where our product might fail or not operate perfectly.*

# System Features and Requirements -*In order for your development team to meet the requirements properly, we must include as much detail as possible. This can feel overwhelming but becomes easier as you break down your requirements into categories.*

## Functional Requirements – Functionality is used according to the requirements to extract the data needed for the company. Data software components interact within the ecosystem, ensuring seamless data flow from AWS S3 to AWS Redshift, processing using Databricks and PySpark, tracking in Jira, version control with GitHub, and ultimately contributing to the overarching objective of analyzing customer behaviors and enabling personalized offers and royalties. *Functional requirements are essential to your product because, as the name implies, they provide some sort of functionality. Asking yourself questions such as “does this add to my tool’s functionality?” or “what function does this provide?” can help with this process. You may also have requirements that outline how your software will interact* *with other tools*

## External Interface Requirements - *You may also have requirements that outline how your software will interact with other tools There are several types of interfaces you may have requirements for, including:*

### User

### Hardware

### Software

### Communications

## System Features - *System features are a type of functional requirements. These are features that are required in order for a system to function.*

## Nonfunctional Requirements - *Nonfunctional requirements, which help ensure that a product will work the way users and other stakeholders expect it to, can be just as important as functional ones. These may include:*

### Performance requirements

### Safety requirements

### Security requirements

### Usability requirements

### Scalability requirements

## 