Template - Requirements Specifications Document

# Introduction –

## Purpose-: The purpose of this project is to increase the revenue of this company by understanding the data received from the competitors utilizing Big data Ecosystem to analyze. This is more focused on customizing the different Insurance policies offered to the customer based on customers aspects such as behavior, condition,etc.

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## Intended Audience and Use :

## Will have access to Data engineering’s , Business Analyst, Software Developer, Stake Holders, Testing team.

## Product Scope:

The Goal of this Project is to Help Insurance company to make appropriate business strategies to increase their revenue and understand how company can beat other competitors attract customer utilizing data Pipelines to analyze customer’s data.

D. 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.*

*2.*Overall Description:

As data Engineer my next step is to build a Data Pipeline to filter out the data and analyze customer behavior. This data is for the data scientist, Business analyst and the company itself. We have existing product, but data are new to compare with the competitors. Yes, it is an Add on product that offers wide range of Policies to attract different group of people.

*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 –

I Data engineer will extract and cleaned the data. And the cleaned data product will be used by data scientist to develop algorithm according to needs of customer, Business Analyst and Other decision makers to Make business decisions.

*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 –

AWS S3 is the designated storage solution for the project.

AWS EMR Studio for development, specifically using Pyspark

Data processing will be performed using AWS Redshift.

Databricks is the chosen platform for data analysis

Jira for tracking, Project Management

GitHub to store code and Version control

*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 - *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

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