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 create the solution for health care insurance company to increase the revenue by analyzing the data received from various sources which will help to understand the customer’s behavior and conditions.

## Intended Audience and Use –

The intended audience will be software developers, data engineers, data analysts, data scientists, QAs, project manager, product owner. All the stakeholders can read it and give their suggestions.

## Product Scope –

With the help of developed data pipeline, final analyzed data will be created as per the requirement. Which will help the management to understand the customer’s behaviors and conditions so that they can offer such kind of customized policies on which customers are really interested to buy or continue.

## 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 –

The health care insurance company, right now, is facing challenges to enhance its revenue that’s why we are finding out the way to increase the revenue of the company by analyzing the data received from various sources because. For that we will build a data pipeline using big data ecosystem where we will analyze the behaviors and conditions of customers using the datasets from various sources. Then, based on the results of our analysis from various perspectives, we will customize our existing policies according to their needs so that more customers will be attracted to buy those policies which will ultimately help to increase the revenue. In addition to that, we will also design some kinds of royalties’ system for existing customers so that they will also be motivated to continue the policy.

## User Needs –

Data analyst will use these analyzed data to draw the meaningful insights to develop the solution.

Management people and insurance policy makers in the company will use these insights developed by data analyst to design the customized policies and some kind of royalties for existing customers.

## 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 -

FR-1: Which disease has a maximum number of claims.

FR-2: Find those Subscribers having age less than 30 and they subscribe any subgroup.

FR-3: Find out which group has maximum subgroups.

FR-4: Find out hospital which serve the greatest number of patients.

FR-5: Find out which subgroups subscribe the greatest number of times.

FR-6: Find out total number of claims which were rejected.

FR-7: From where most claims are coming (city)

FR-8: Which groups of policies subscriber subscribe mostly Government or private.

FR-9: Average monthly premium subscriber pays to insurance company.

FR-10: Find out Which group is most profitable.

FR-11: List all the patients below age of 18 who admit for cancer.

FR-12: List patients who have cashless insurance and have total charges greater than or equal for Rs. 50,000.

FR-13: List female patients over the age of 40 that have undergone knee surgery in the past year.

## External Interface Requirements –

AWS S3

AWS Redshift

Databricks

AWS EMR Studio

PySpark

Jira

GitHub

## *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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