Template - Requirements Specifications Document

# Introduction – *Health Care insurance company project which will help optimize the data in such a manner that will enhance the company’s revenue with the help of customers behaviors.*

## Purpose – *Overcome the revenue challenges and understand customers.*

## Intended Audience and Use -*Data scientist, Business Analyst, data engineers where they can manipulate on the list of requirements and understanding the customer behaviors.*

## Product Scope – *This is the medium to maximize revenue and track the customer behavior where the company will be able to understand various groups and their requirements.*

## 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 –

# **Relational Data model**

* Data cleaning
* ETL pipeline
* Upload the data to redshift.
* Test the product in data bricks.
* Push the code to GitHub.
* Deploy the code to AWS EMR

# System Features and Requirements –

● Which disease has a maximum number of claims.

● Find those Subscribers having age less than 30 and they subscribe any subgroup

● Find out which group has maximum subgroups.

● Find out hospital which serve most number of patients

● Find out which subgroups subscribe most number of times

● Find out total number of claims which were rejected

● From where most claims are coming (city)

● Which groups of policies subscriber subscribe mostly Government or private

● Average monthly premium subscriber pay to insurance company.

● Find out Which group is most profitable

● List all the patients below age of 18 who admit for cancer

● List patients who have cashless insurance and have total charges greater than or equal for Rs. 50,000.

● List female patients over the age of 40 that have undergone knee surgery in the past year

## 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

Data Scientist

Data Engineer

Business Analyst

### Hardware

Project Machine

### Software

● AWS S3

● AWS Redshift

● Databricks

● AWS EMR Studio

● PySpark

● Jira

● GitHub

### Communications

Based on the discussion of the team/ changes are flexible after the scrum with the project panel.

## 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

response time

throughput

resource utilization

this will help in aligning the business/project goals

### Safety requirements

A safer environment/ manner

To protect user and the environment

### Security requirements

User Roles (IAM roles/authorization)

User authentication

Data protection

### Usability requirements

User satisfaction

Testing

### Scalability requirements

System ability

Database Capacity

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