Template - Requirements Specifications Document

# Introduction

## Purpose –

## The purpose of this SRS is to help the Health Care insurance company create business strategies to address challenges in enhancing revenue and understanding customers.

## Intended Audience and Use –

## The people who will have access to this document are developers, testers, and Project managers. This document will be used for solving and organizing data by developers, will be tested by the testers to see if the data is working and projects mangers will direct on how the data will be organized or shown.

## Product Scope

The scope of this document is to outline the benefits, objectives, and goals of the product, aligning with overall business goals.

Definitions and Acronyms –

Some common acronyms and their definitions are:

* SRS (Software Requirements Specification): A document that describes the functions and features of software.
* UI (User Interface): The space where interactions between humans and machines occur.
* DB(Database): An organized collection of structured information data.
* UAT (User Acceptance Testing): The process of verifying those solutions operates.
* CRUD (Create, Read, Update, Delete): The four basic functions of persistent storage.

# Overall Description

This product is used to analyze the competitors from the data that we received through data scrapping and third party involved.

## User Needs –

* Customer Service Teams
* Marketing Team
* Insurance Analyst
* Executives

## Assumptions and Dependencies –

* This project relies on technologies like AWS redshift, AWS s3 and Databricks.
* Data processing within the project is built upon PySpark and Databrick

# System Features and Requirements

## Functional Requirements

* Hospital patient Analysis
* Claims Rejection
* Disease Claims Analysis
* Average Monthly Premium

## External Interface Requirements -

### User- GitHub, Jira

### Hardware-Ensure compatibility with existing company hardware.

### Software- Databrick, AWS s3, AWS Redshift, PySpark

### Communications- Implement secure communication protocol for data transfer.

## System Features –

* Data Ingestion
* Data Stroage
* Data Processing
* User Management

## Nonfunctional Requirements -

### Performance requirements-The system should handle large volumes of data efficiently.

### Safety requirements-Ensure data is protected from unauthorized access.

### Security requirements- Implement robust encryption and authentication.

### Usability requirements- The system should be user-friendly and accessible to all intended users.

### Scalability requirements- The system should be scalable to accommodate future data growth.

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