Requirements Document for Cloud Data Warehouse Implementation

1. Project Overview

Project Name: Cloud Data Warehouse Implementation

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Date: March 15, 2024

Version: 1.0

1.1 Purpose

This document outlines the business needs and requirements for implementing a cloud data warehouse to analyze sales data, enabling improved decision-making and operational efficiency.

1.2 Background

The organization currently manages sales data across multiple systems, resulting in fragmented insights and delays in reporting. A cloud data warehouse solution will centralize data storage and provide robust analytics capabilities.

2. Business Needs

2.1 Goals

- Improve the speed and accuracy of sales reporting.

- Provide stakeholders with real-time insights into sales performance.

- Centralize data from various sources for better analysis.

2.2 Problems to Solve

- Current data management practices lead to inconsistent and incomplete sales data.

- Reporting processes are manual and time-consuming, causing delays in decision-making.

- Lack of a unified view of sales data across different departments.

3. Functional Requirements

3.1 User Requirements

- Data Analysts need access to detailed sales data and reporting tools.

- Management requires high-level dashboards with key performance indicators (KPIs).

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- IT Staff needs the ability to manage user permissions and data security.

3.2 Features

1. Data Ingestion

   - Ability to collect data from CRM, ERP, and other sales systems.

2. Reporting Tools

   - Interactive dashboards that allow users to generate custom reports.

3. User Access Controls

   - Role-based access control to ensure data security and compliance.

4. Technical Specifications

4.1 Technology Stack

- Cloud Provider: Amazon Web Services (AWS)

- Data Warehouse Solution: Amazon Redshift

- ETL Tool: AWS Glue

- Reporting Tool: Tableau for data visualization

4.2 Data Security

- Compliance with GDPR and CCPA for data privacy.

- Implementation of encryption for data at rest and in transit.

5. Project Timeline

5.1 Milestones

- Requirements Gathering: March 2024

- Design Phase: April 2024

- Implementation: May 2024

- Testing and Validation: June 2024

- Go-Live: July 2024

6. Approval

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6.1 Sign-off

Prepared By: Brittany Jones

Approved By: [Name of Stakeholder]

Date of Approval: March 15, 2024