Developing a Cloud-Based Service  
for Basic Data Analytics

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# Abstract

For simple data operations like sorting, searching, and classification, this project presents a cloud-based data analytics tool.

# Introduction

The creation of a cloud-based data analytics service is the goal of this project.   
The foundation of this software documentation report should be a software methodology that documents the program's design, implementation, and deployment in addition to all of the requirements I provided you in the program specification.

# Cloud Software Program/Service Requirements

For conducting necessary data analytics, the cloud-based solution offers users an easy-to-use interface.

Explain how your program/service works at various levels of abstraction.

# Software Architecture and Design

A three-tier model serves as the foundation for the software architecture.   
the program's operational elements as they are set up on the cloud. Include other algorithms as well, such as the categorization, sorting, searching, and scraping algorithms.   
Classes, databases (noSql), and other software components are all intricately designed.   
User interface design in detail, including all relevant functionality and design choices.

**You may also include:**

Real-world constraints of the used cloud platform environment.

# Used Cloud Services and its Interfaces

The project utilizes the following Firebase services...

# Implementation

The system was implemented using HTML, CSS, and JavaScript for the frontend...

# Data

The application uses Firebase Firestore to store user datasets...

# The Used Cloud Platform

The target platform is Firebase, chosen for its ease of use...

# Deployment on the Platform

Deployment was done as follows...

# User Support

https://github.com/KasabX/cloud\_

# Conclusion

This project successfully demonstrates the development of a basic cloud-based analytics platform...

# References

- Firebase Documentation: https://firebase.google.com/docs  
- JavaScript MDN: https://developer.mozilla.org/en-US/docs/Web/JavaScript