**<Municipal Money>**

**DSIDE Project Report**

**<Date>**

**Version 1.0**

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# Executive Summary

This report provides an analysis and rating towards all South African municipalities. The project intends to construct statistical profile for each municipality. The profile must be based on the economic and social conditions as well as the corresponding opportunities available to the youth. In addition, project aims to determine the influence of municipal money towards youth development within their regions.

## Problem Statement/Research Question/ Project Objectives

### Municipalities form the bottom of the three-sphere system of government in South Africa. Under this system the municipalities are responsible for providing basic services to their given region. These services include water, electricity, sanitation, refuse and water.

### The problem faced by these municipalities lies in the efficient delivery of these services. This project aims to give insight into the operations of municipalities across South Africa. This will affectively provide accountability as to where funds are coming from and how they are being spent. The profiling of municipalities in this manner will highlight problem areas and allow for prioritization of intervention efforts.

Furthermore this projects then aims to guide municipal spending/operations to effectively assist youth development within their municipality. Given youth living conditions municipal spending will be monitored and hopefully redirected to areas of need. The aim of this being to improve youth conditions by the next census in 2021.

## Proposed Solution

Firstly we need to determine financial measures that will be used as prediction variables, financial ratios will be used (e.g current ratio, cash balance..etc). And then we observe the change of these ratios over time and inter-compare the result with each municipality. And secondly we will use the two measures for youth development namely youth well-being and youth circumstances. Each of the municipality we determined the latitude and longitude and the province associated with it , in order to group them and represent them on the South African map.

### An interactive dashboard will be created. The dashboard will first convey the profile of each municipality and its youth. This information will be conveyed through a simple matrix measuring municipal performance and efficiency on one axis and youth wellbeing on the other.

Furthermore the municipality and youth profiles will be portrayed geographically. Colour scales will be used to get a sense of where the problematic areas in the country lie. From this representation one will then be able to drill-down into specific municipality statistics. Here one will be able to see statistics on the given municipalities use of funds and the corresponding youth circumstances.

The statistics provided on each municipality will also include models shedding light on which conditions are most significant in limiting their opportunities. This will give insight into which areas the municipality should be prioritizing expenditure.

In summary the dashboard will essentially act as a tool to firstly understand the different profiles across the country. It furthermore will be able to assist decision making with regards to where and on what funds should be spent. It can also be used as a regulatory tool to keep track of fund allocation and expenditure.

### Insert a description of how the project will provide a solution to the business need or problem above. The proposed solution may be a piece of hardware or software that has already been identified, it may be a process improvement opportunity identified

### .

High level solution diagram to be included with a description of each block’s purpose. This diagram must be the full solution as planned from the start of the project.

# Project Team

* List the team members names and contact details (contact numbers and email), university and status of study.
* Describe the contribution that individual team members will make to reach the objective

# Project Execution and Implementation

* Referring to the proposed solution diagram, describe the tasks to be performed to accomplish the purpose of each block (from Proposed Solution)
* Describe the technologies and tools used to execute each task (can be high level and expand in Appendix 7.2)
* Describe the challenges that were experienced with each task and how these were overcome
* Can tabulate this section if preferred

# Final Project Outcome

* What did the team eventually complete and deliver at the end of the project period
* If the full solution was not delivered, give reasons why.
* Recommendations of improvements that can be given to the data owner to improve their data collection or capturing methods

# DSIDE Programme feedback

* What are the team’s recommendations on DSIDE programme improvements. This item can cover anything from travel, accommodation, equipment, mentors, programme execution and general feedback.

# Appendix

## Detailed description of the dataset(s) provided

* Synopsis of what the raw data looked like and why it was captured
* What information was contained
* What format was the data in
* Describe any data manipulation you had to make to get the data usable for your project

## Detailed description of your development environment

* List all software components utilized for the project (list the source, nature of open source licence, version information)
* Link all software modules to a block in your solution diagram indicating how the software is achieving the block’s function
* This entire section can be tabulated if preferred
* Where is the project found (git path)