IBM NAAN MUDHALVAN

**DATA ANALYTICS WITH COGNOS**

**Public Transportation Analysis**

**Phase 1: Problem Definition and Design Thinking**

In this part you will need to understand the problem statement and create a document on what have you understood and how will you proceed ahead with solving the problem. Please think on a design and present in form of a document.

**Problem Definition:**

The project involves analyzing public transportation data to assess service efficiency, on time performance, and passenger feedback. The objective is to provide insights that support transportation improvement initiatives and enhance the overall public transportation experience. This project includes defining analysis objectives, collecting transportation data, designing relevant visualizations in IBM Cognos, and using code for data analysis.

**Design Thinking:**

1. Analysis Objectives: Define specific objectives for analyzing public transportation data, such as assessing on-time performance, passenger satisfaction, and service efficiency.
2. Data Collection: Identify the sources and methods for collecting transportation data, including schedules, real-time updates, and passenger feedback.
3. Visualization Strategy: Plan how to visualize the insights using IBM Cognos to create informative dashboards and reports.
4. Code Integration: Decide which aspects of the analysis can be enhanced using code, such as data cleaning, transformation, and statistical analysis.

**Dataset Link:**

[**https://www.kaggle.com/datasets/rednivrug/unisys?select=20140711.CSV**](https://www.kaggle.com/datasets/rednivrug/unisys?select=20140711.CSV)

**ALGORITHM:**

1. **Collect the Dataset**
2. **Preprocess the Dataset**
3. **Analyze the model**
4. **Visualize the Model**
5. **Get Insights from the visualized Data**