PROJECT: PUBLIC TRANSPORTATION ANALYSIS

* Team Number: 21
* Team member details:

1. Team Leader: Jeshu Denzil Deve. M (310821104040)
2. Team member 1: Dhanush. V (310821104025)
3. Team member 2: Muhammad Khaif (310821104061)
4. Team member 3: Rajesh Kanna (310821104306)

Phase 2: Innovation

* 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.

* Approach:
* Design Objectives:

Define objectives such as Route Id, stop timings and passenger feedback about the public transportation.

* Analysis Approach:

Plan the steps to load, preprocess, analyze, and visualize

the public transportation data.

* Visualization Selection:

Determine visualization techniques (ex : charts ,graphs ,etc..) for checking

the public transportation data.

* Checking the requirements:
* First we install the required software and install the modules required for the

project and then we set up the test environment by changing the path variables

and we launch the application.

* Data collection and warehousing:

We collect various data in the form of an excel spreadsheet and convert it into

a CSV file and save it in the same folder where we are going to implement the algorithm.

* Test Execution:
* We use the pandas , scikit ,matplotlib modules in python in order to implement the supervised machine learning algorithm and to visualize it in a realistic manner.

Conclusion:

These steps are considered optimal for getting the desired output.