Phase 1:~PROJECT DEFINITION AND DESIGN THINKING

PROJECT NAME:~ PUBLIC TRANSPORT OPTIMIZATION

PUBLIC TRANSPORT OPTIMIZATION:

*PUBLIC TRANSPORTATION OPTIMIZATION is the process of analyzing shipments, rates and. constraints to produce realistic load plans that reduce overall freight spend and gain efficiencies across entire transportation networks.

*The reduction of costs and creation of greater operational efficiencies, all while increasing customer satisfaction.

*Offering many benefits like boosted efficiency, cost savings, and reduced carbon footprint, route optimization is a crucial aspect of a delivery or service business.

PROJECT DEFINITION:~

•The Internet of Things technology allows districts to easily track the location of their vehicles It is also expected that around 88% of the new vehicles will involve IoT telematics by 2025. It ensures business benefits like increased driver safety, better environmental conditions, real-time monitoring of the vehicles, and

improved traveling experience

•Managing traffic flow and transportation is one of the greatest challenges that smart cities face - and IoT technologies offer practical solutions. Through the transmission of real-time data, IoT solutions for traffic monitoring make it possible to optimize traffic flow by adjusting the timing of traffic signals

•The main goal is to provide real time transit information to the public through a public platform

DESIGN THINKING:~

•The application is Developed for the following such as real-time transit information, arrival time prediction, ridership monitoring, and enhanced public transportation services.

•Deployment of IoT sensors (e.g.,MQ3 sensor, proximity sensor, GPS, passenger counters) in public transportation vehicles.

•Design a web-based platform to display realtime transit information to passengers.

•With the help of IOT sensors the informations are collected and display real time transit information to passengers

•Integrating IoT sensors in public transportation involves deploying sensors to collect data and using IoT platforms for real-time monitoring and analysis.