

Project Title: Traffic Management System

Phase 1: Project Definition and Design Thinking

Project Definition:

The project involves using IoT devices and data analytics to monitor traffic flow and congestion in real-time, providing commuters with access to this information through a public platform or mobile apps. The objective is to help commuters make informed decisions about their routes and alleviate traffic congestion. This project includes defining objectives, designing the IoT traffic monitoring system, developing the traffic information platform, and integrating them using IoT technology and Python.

Design Thinking:

1. **Project Objectives:** Define objectives such as real-time traffic monitoring, congestion detection, route optimization, and improved commuting experience..
2. **IoT Sensor Design:** Plan the deployment of IoT devices (sensors) to monitor traffic flow and congestion.
3. **Real-Time Transit Information Platform:** Design a web-based platform and mobile apps to display real-time traffic information to the public.
4. **Integration Approach:** Design a web-based platform and mobile apps to display real-time traffic information to the public.