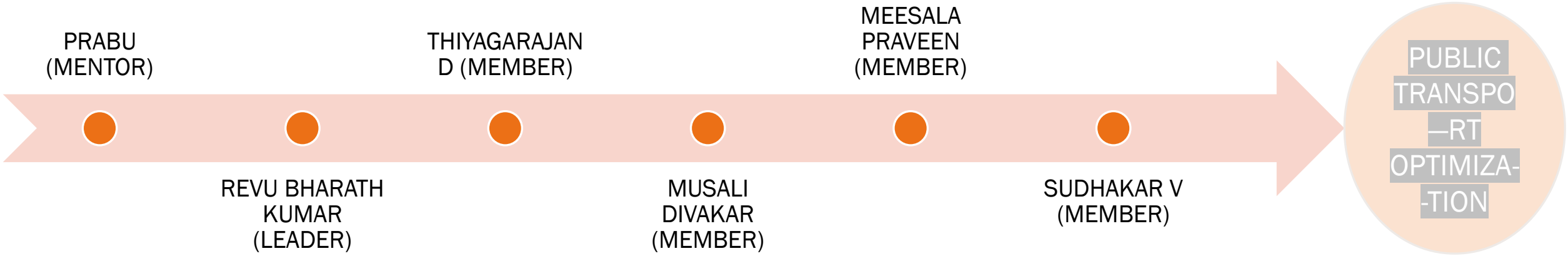
PUBLIC TRANSPORT OPTIMIZATION

TEAM DETAILS



PROJECT DEFENITION :

- The project involves integrating IOT sensors into public transportation vehicles to monitor ridership monitoring.
- To track locations and predicts arrival times.
- The goal is to provide real time transmit information to the public through a public platform enhancing the efficiency and quality of public transportation services.

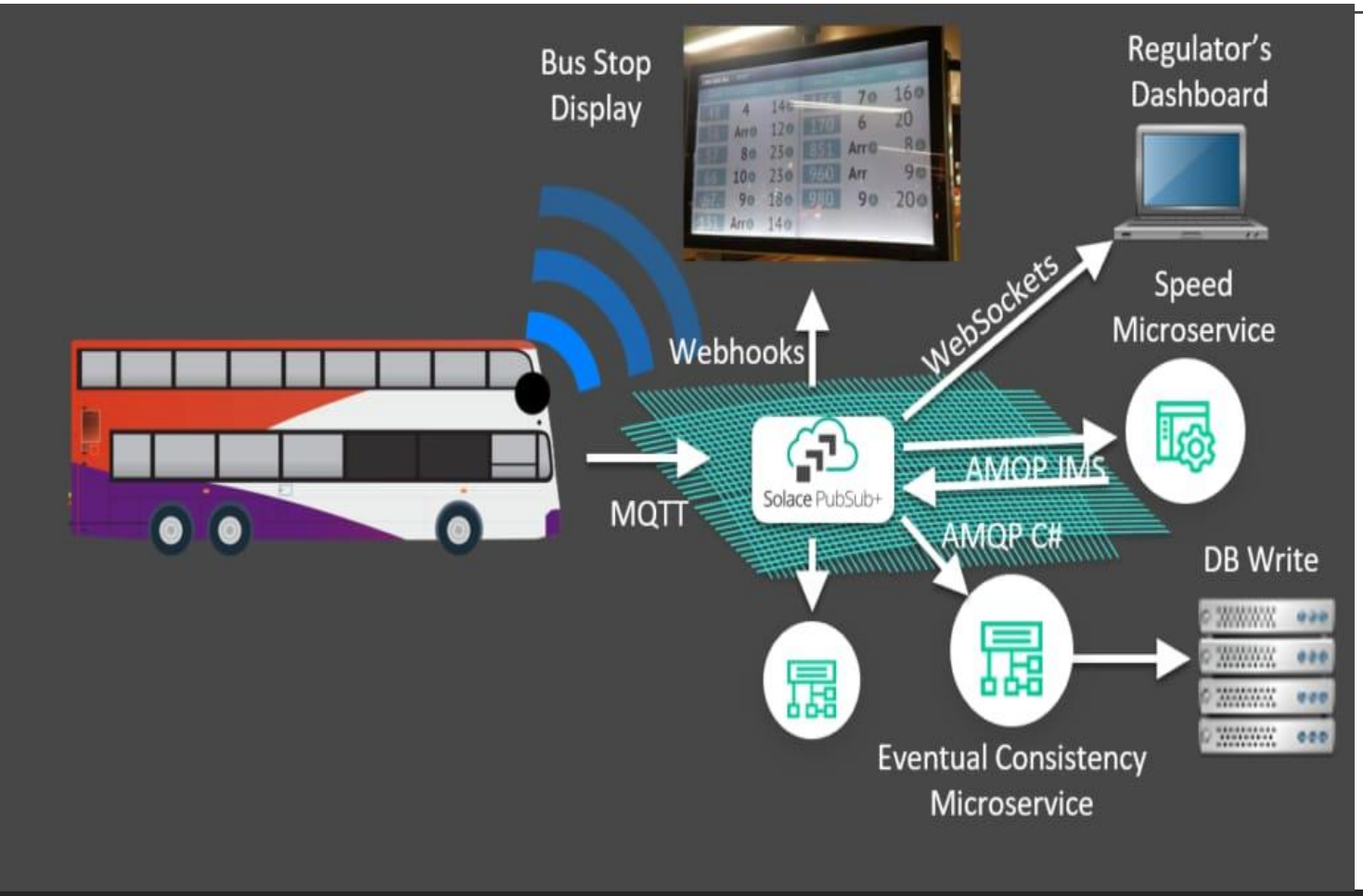
PROJECT OBJECTIVES :

- This projects includes defining objectives designing the IOT sensor system, developing the IOT sensor system, developing the real time transit information platform, integrating using IOT technology and python.
- This project main aim is to find a set of routes, each assigned to a vehicle by using IOT sensor system technology.
- This optimization can help to track the moving object in real time and minimize the cost of user incentives.

DESIGN THINKING :

- IOT sensor design;
- Real –Transit information platform;
- Integration approach;

IOT SENSOR DESIGN :

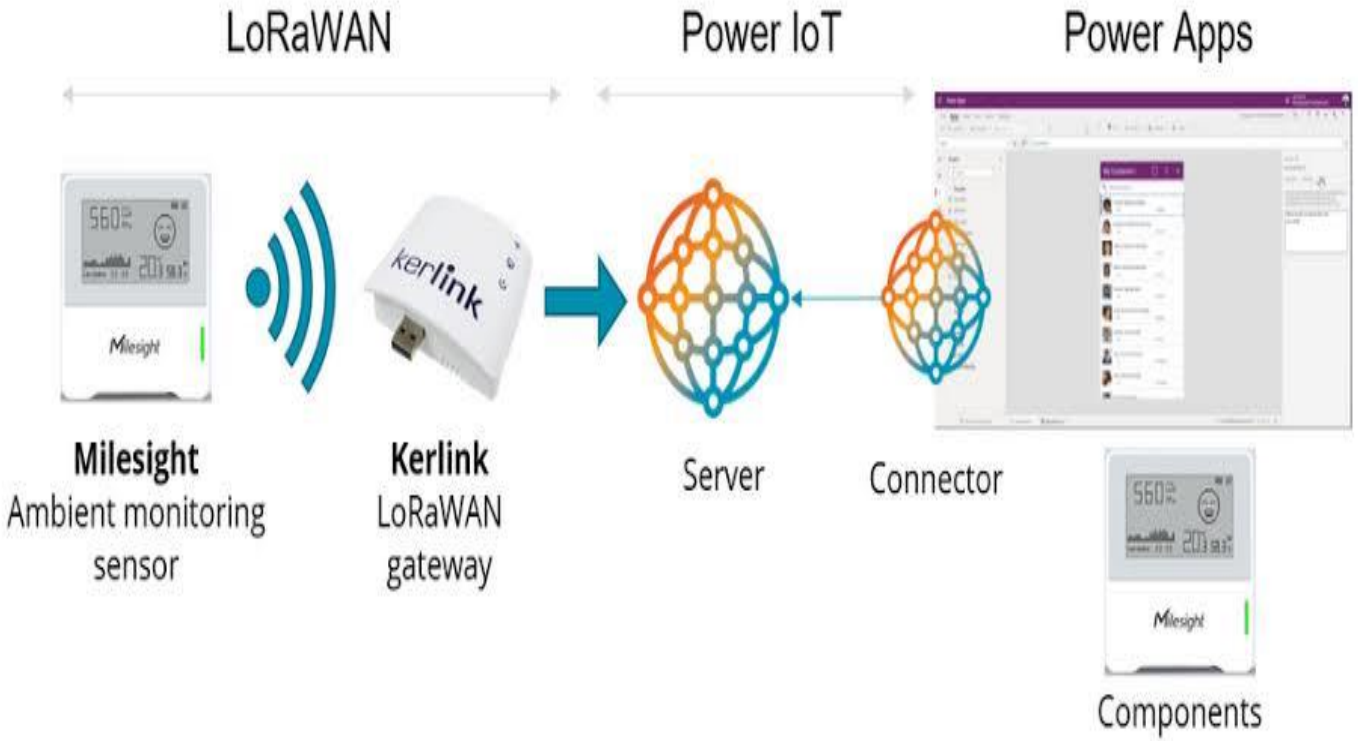


- We use GPS(Global Positioning System) sensor is used for tracking the bus.
- The GPS are used for tracking the precise location of buses in real time.
- From the sensor, we analyse the location and send the data to other platform like app.

REAL TRANSIT INFORMATION PLATFORM :

- The output of the sensor is given to applications through a process involving hardware, software and data communication.
- The sensor collects data, hardware interface with data and software applications process and make use of this data.
- From the output of the sensor we send the it to microcontroller through wireless protocol.

INTEGRATION APPROACH :



- Choose the sensors that are relevant to your application requirement
- Connect the selected sensor to the hardware platform that run your application.
- Most of the sensor come with manufacturer provided libraries or drivers that facilitate communication between the hardware and sensor.

Thank you