Because of the increased burden on public transportation like buses, we need a smart and portable management system to track the location of a bus.

With the increase in pollution levels in the atmosphere, a system is needed where we can constantly monitor the surrounding pollution levels. Instead of an inert system, where it has to be fixed in a single place, a mobile system, which has more flexibility, is suggested.

The current existing methods only either track the bus location or just monitor the air pollution levels at a particular designated area separately. Which may not be that useful on its own. It also becomes useless if any precautionary measures are not taken based on the high-risk levels. So here, the mobile application comes into play

We are currently making the sensors take real-time data by placing it on one of the college buses. Connecting the air pollution monitoring sensors to the GSM module along with a GPS sensor, we can view the current location of the bus along with the PM sensor data. There would also be an AHT10 sensor to measure temperature and humidity.

The PM sensor takes in data on the particles under 2.5 and 10 μm. It shows us the pollution levels in the atmosphere. It updates at rapid time intervals.

This system is accurate and also cost-effective. It helps for better time management, safety and on-time response in case of emergencies by viewing the graphical and locational data displayed on the mobile application.