FLUSH WITH INNOVATION: REVOLUTIONIZING SMART PUBLIC RESTROOM

INTRODUCTION

Smart toilets have different sensors that perform multiple functions beyond just flushing. These sensors use infrared rays and ultrasound to detect if the person is inside the washroom and how long he has been sitting there. These sensors are equipped with Wi-Fi connectivity and provide real-time data. For example, if the person experiences a fatal incident, the motion sensors will detect it and send an alert to facility management to check on them. In addition, the sensors also monitor the air quality inside the restroom.

THE PROBLEM

Public restrooms are often unsanitary, uncomfortable, and inconvenient. Long lines, broken fixtures, and lack of supplies are common issues. Smart technology can solve these problems.

OBJECTIVES

Public toilets are essential to equitable access to public outdoor spaces. They allow for the space to become a destination for extended periods for socialising, exercise, commuting and accessing community and commercial services. This is true for streetscapes and open spaces such as parks and gardens.

DESIGNING THE SENSORS

Here the sensors like PT1000 sensor, Pressure sensor, and RFID reader are used here. PT1000 sensor used to measure the thigh temperature. Pressure sensor is used measure the pressure of the base portion of the toilet. Using RFID reader is used to sense the particular person result.

HOW DO IOT SENSORS SEND DATA?

The data collected by the sensors is then shared via the cloud and integrated with software. The software then analyzes and transmits the data to users via an app or website.

CONCLUSION

Smart technology can revolutionize public restrooms by improving hygiene, accessibility, and convenience. Let's embrace innovation and create a better restroom experience for everyone.

Thanks!