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**DEPARTMENT OF**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**IBM - Naan Mudhalvan**

**Internet of Things**

**Group 3**

**Phase 2 - Project Submission**

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**Smart Public Restroom**

**Innovation:**

* The Smart public restroom has lots of innovative thoughts. In our project we include three main ideas. They are
* Air quality monitoring.
* Automatic flusher.
* User availability.

**Air Quality Monitoring:**

* If any odour is present in the restroom, it is detected by the airquality sensor.
* It gives information to the arduino, then the arduino switch ON the fragrance in the restroom.
* The fragrance remove the odour and give fresh feel for next one.

**Automatic Flusher:**

* After every use, the flush automatically turn ON for a minute and it turn OFF.
* It is done by using ultrasonic sensor behind the toilet.
* Ultrasonic sensor measure the distance of the person from the toilet and when reach the threshold distance the flush will turn ON.

**User Availability:**

* In this feature the presence of the user is detected by Ultrasonic sensor.
* The Ultrasonic sensor detects the person at a specific distance from the door.
* If the user is present there is a red indication in the entrance and in the absence there is a green indication for showing the availability of the restroom.