DEPARTMENT OF

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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.