**Phase 1 project:**

**Project Title: SMART PUBLIC RESTROOM**

**Project ID:** proj\_223730\_Team\_1

**College:** Gnanamani College of Technology

**Branch:** B.Tech/Information Techology

**Year:** IIIrd year

**Problem Definition and Design Thinking:**

**Problem Definition:**

**ABSTRACT:**

While there has been a growth in advancements in the modern world, our country's cleanliness is still under jeopardy. Delivering hygienic, clean restrooms is the focus of this paper's abstract. Every single public restroom needs to be hygienic and clean. The "Swachh Bharat" (Clean India) initiative has been launched by our government in our nation. One of the goals of the Clean India initiative is to keep toilets clean. The clean India project may benefit from the information in this paper. It may eventually play a significant role in the clean India initiative. They are just interested in recognizing the toilet dirt in the current system. In our proposed system, we have decided to maintain clean restrooms while keeping an eye on the sweeper's performance.

**Design Thinking:**

**Hardware required:**

* Microcontroller Atmega328
* LCD Display
* RF Transmitter/Receiver
* GSM Module
* Odor Sensor
* IR Sensor
* Dc Power Supply
* Ammonia Sensor
* Relay
* Water Motor
* RFID Reader Module

**Software required:**

* PCB Artist For PCB Design
* Atmel Studio 6.0 Compiler
* Proteus For Circuit Design

**TEAM MEMBERS:**

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