

JP NAGAR CENTER

PEDALFLUSH: HANDS-FREE HYGIENE FOR PUBLIC RESTROOMS

PROBLEM STATEMENT

In India, each toilet seat serves an average of 75 to 100 persons, resulting in unsanitary conditions exacerbated by accumulated garbage. Unhygienic flushes contribute to user discomfort and potential health issues, including skin irritation, diarrhea, and colds. Ensuring proper flushing is essential for a comfortable, safe, and hygienic sewage disposal system. Neglecting to flush can lead to dire consequences, such as unpleasant odors attracting disease-carrying pests like flies. Maintaining toilet cleanliness is vital not only for user comfort but also to prevent health hazards, ensuring a sanitary environment for all.

TEAM MEMBERS

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SOLUTION

Introducing a hands-free solution to enhance hygiene in public restrooms, a pedal-operated flush system is implemented. When force is applied to the pedal, the lever descends, activating the flush mechanism. This innovative design eliminates the need for direct hand contact with the flush, addressing concerns about hygiene in shared spaces. By using a foot pedal, individuals can comfortably flush without touching potentially contaminated surfaces, reducing the risk of germ transmission. This simple yet effective modification not only promotes a cleaner and more sanitary restroom experience but also aligns with public health guidelines, offering a practical and user-friendly solution for a hands-free flush operation. The foot pedal flush system is an accessible and efficient upgrade, ensuring a heightened level of hygiene in public facilities..

