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(57) Abstract :
The present invention discloses an IoT-based platform (100) for real-time urban noise pollution control. The system comprises distributed sensor nodes (110) for capturing noise data, a cloud analytics engine (120) for classification and prediction, user dashboards (130) for authorities and citizens, and automated response mechanisms (140) for active mitigation. The platform ensures real-time monitoring, predictive analytics, and community engagement. By enabling both immediate interventions and long-term planning, the invention provides a sustainable solution for urban noise reduction and enhanced quality of life.

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