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(57) Abstract :
 ABSTRACT In an era marked by escalating concerns over water scarcity and pollution, ensuring access to clean water for drinking and irrigation is paramount. This project introduces WATERNET, a comprehensive network designed to monitor and facilitate access to water quality data for both drinking and irrigation purposes. WATERNET integrates cutting-edge sensors and IoT devices strategically deployed across water bodies and distribution networks. These sensors continuously collect real-time data on various parameters crucial for assessing water quality, including pH levels, dissolved oxygen content, turbidity, temperature, and presence of contaminants. Through intuitive dashboards, stakeholders, including water authorities, farmers, and communities, can easily visualize water quality metrics and make informed decisions. The platform also supports data sharing and collaboration, fostering collective efforts towards sustainable water management. Moreover, WATERNET offers a user-friendly interface accessible via web and mobile applications. Through intuitive dashboards, stakeholders, including water authorities, farmers, and communities, can easily visualize water quality metrics and make informed decisions. The platform also supports data sharing and collaboration, fostering collective efforts towards sustainable water management. The implementation of WATERNET holds promise for revolutionizing water quality monitoring and management practices. By enhancing transparency, efficiency, and responsiveness, it empowers stakeholders to address water-related challenges with agility and precision. Ultimately, WATERNET contributes to the broader goal of ensuring equitable access to safe and reliable water resources, promoting human well-being, and fostering environmental sustainability.

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