

SMART WATER FOUNTAINS USING IOT

INNOVATION :

1. **Water Quality Monitoring:** Implement sensors to monitor the quality of the water, checking for impurities or contaminants. This data could be sent to a central system for analysis.
2. **Usage Tracking:** Use IoT to track the frequency and volume of water dispensed. This could help in understanding usage patterns and potentially identify any wastage.
3. **Self-cleaning Mechanism:** Incorporate a self-cleaning system that activates at regular intervals or when sensors detect a decrease in water quality.
4. **Real-time Alerts:** Set up a system to send alerts or notifications when certain conditions are met, like if the water quality drops below a safe level.
5. **Touchless Operation:** Use motion sensors or proximity detectors to enable touchless operation, promoting hygiene.
6. **User Feedback System:** Allow users to provide feedback on the water quality or any issues they encounter. This could be integrated with a mobile app.
7. **Automatic Refill:** Integrate a mechanism for automatic refilling of the water supply when it runs low.
8. **Solar Power Integration:** Implement solar panels to power the fountain, making it more environmentally friendly and reducing dependency on external power sources.
9. **Integration with Weather Data:** Connect the fountain to weather forecasts to adjust operations based on conditions like rain or extreme temperatures.
10. **Remote Control and Monitoring:** Provide a way to control and monitor the fountain remotely via a mobile app or a web interface.
11. **Leak Detection:** Use sensors to detect leaks or malfunctions and send alerts to prevent water wastage.
12. **Water Temperature Control:** Include a system to adjust the water temperature based on user preferences.