Data :30/09/2023

Project ID :proj\_223331\_Team\_2

Project Title : Smart water fountains

**PHASE I**

**DEFINITION:**

Smart water fountains are technologically enhanced water dispensers that often incorporate features such as touchless operation, water purification systems, sensors to monitor water quality, and connectivity to enable remote control or data collection. These fountains are designed to provide convenient and efficient access to drinking water while promoting sustainability and hygiene through advanced capabilities.

**DESIGN THINKING :**

Solving problems related to smart water fountains involves addressing various aspects, from technical issues to user experience improvements. Here are some steps to help you tackle these problems:

1. ***Identify the Problem:*** Clearly define the specific issue or challenge you’re facing with smart water fountains. Is it a technical malfunction, user complaints, maintenance concerns, or something else?
2. ***Gather Data:*** Collect data and feedback from users, maintenance logs, and performance metrics to understand the problem’s root causes and patterns.
3. ***Technical Troubleshooting:*** If the Problem is technical, diagnose and resolve issues with the fountain’s hardware, sensors, filtration system, or connectivity. This may involve regular maintenance, repairs, or software updates.
4. ***User Experience Enhancement:*** Address any usability issues by analyzing user feedback. Consider making adjustments to the fountain’s interface, touchless features, or accessibility to improve the user experience.
5. ***Water Quality:*** Ensure the water quality meets safety standards. Regularly maintain and replace filters and purification systems to provide clean drinking water.
6. ***Sustainability***: If sustainability is a Concern, evaluate ways to reduce water wastage, energy consumption, and plastic bottle usage. Implement water- saving features and promote the benefits of reusable containers
7. ***Data Monitoring and Analytics:*** Leverage the fountain’s connectivity and data analytics capabilities to monitor usage patterns, detect anomalies, and optimize maintenance schedules. This can help prevent issues before they occur
8. ***User Education:*** Educate users on how to use the smart water fountains effectively and responsibly, including proper hygiene and waste reduction practices.
9. ***Partnerships and Support:*** Collaborate With relevant stakeholders, such as manufacturers, suppliers, or maintenance teams, to ensure ongoing support and improvements.
10. ***Feedback Loop:*** Establish a feedback Loop with users and stakeholders to continuously gather input and make iterative improvements to the smart water fountain system.
11. ***Regulatory Compliance:*** Ensure that the smart water fountains comply with local regulations and safety standards related to drinking water.
12. ***Long-Term Sustainability:*** Consider the Long-term sustainability of the smart water fountain system, including scalability, durability, and adaptability to evolving technologies.