Smart water fountains :
Development:2

1. **Filtration System**: Advanced filtration methods to ensure the water is clean and safe for consumption.

2. **Sensors**: Sensors to detect the presence of a user and dispense water automatically. These sensors can be infrared, ultrasonic, or touch-based.

3. **User Interface**: A user-friendly interface, such as a touchscreen, to interact with the fountain and select water options.

4. **Water Quality Monitoring**: Continuous monitoring of water quality, with alerts or notifications if issues are detected.

5. **Bottle Filling Station**: Integration of a bottle-filling station for convenient refills.

6. **Hydration Tracking**: Some smart fountains can track the volume of water consumed by a user.

7. **Water Temperature Control**: Options for dispensing both cold and hot water.

8. **QR Codes and Mobile Apps**: Integration with mobile apps or QR codes for easy access and payment if applicable.

9. **Data Analytics**: Collecting data on water consumption patterns and usage to optimize maintenance and efficiency.

10. **Energy Efficiency**: Energy-efficient components to reduce operational costs.

11. **Sustainability**: Consideration for sustainability, like materials used in construction and water-saving features.

12. **Remote Monitoring and Maintenance**: Remote access for maintenance personnel to monitor and address issues.

These fountains aim to provide clean, convenient, and efficient access to drinking water while reducing waste and environmental impact.