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## Patent Search

Invention Title	ECO AQUA – AN INTERNET OF THINGS (IoT) ENABLED REAL-TIME WATER QUALITY MONITORING AND MANAGEMENT SYSTEM WITH MU STAKEHOLDER ALERT MECHANISM
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### Abstract:

ABSTRACT: The AYUSH Virtual Herbal Garden represents an innovative digital platform that transforms traditional medicinal plant knowledge into an immersive learn experience. Through advanced 3D visualization technology, Virtual Reality, and Augmented Reality interfaces, the system enables users to explore and study medicinal plants in unprecedented detail. The platform incorporates an AI-powered chatbot for information retrieval and a comprehensive knowledge-sharing system that connects expert learners. The system's unique three-tier architecture – comprising government/administrator, professor, and student levels – ensures proper knowledge flow and validation. The virtual garden particularly emphasizes rare and endangered medicinal plants, making this valuable information accessible while promoting conservation awareness. Combining cutting-edge technology with traditional knowledge, the AYUSH Virtual Herbal Garden serves as a crucial tool for education, research, and preservation of medicinal plant heritage. This innovation bridges the gap between ancient wisdom and modern technology, creating an accessible, interactive, and educational platform that serves students, researchers, practitioners, and enthusiasts of traditional medicine. The system's focus on collaborative learning and knowledge sharing ensures the continuation and propagation of valuable medicinal plant knowledge for future generations.

**Complete Specification**

Description: PREAMBLE TO THE DESCRIPTION:

The following specification particularly describes the invention and how it is to be performed:

Principal Elements:

- 3D visualization system for medicinal plants
- AI-powered interactive chatbot
- Knowledge sharing platform
- Virtual Reality (VR) and Augmented Reality (AR) interfaces
- Central database of medicinal plant information
- User access management system

Priorities for Design:

- Immersive user experience
- Educational value
- Knowledge preservation
- Accessibility

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