Patent Search

Invention Title	AYUSH Virtual Herbal Garden for Immersive Medicinal Plant Learning
Publication Number	01/2026
Publication Date	02/01/2026
Publication Type	INA
Application Number	202541124386
Application Filing Date	10/12/2025
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q 50/20, G06F 17/30, G06Q 50/00, G06F 3/01, G06F 16/338

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Abstract:

The invention relates to a Virtual Herbal Garden System that digitally preserves and presents AYUSH medicinal plant knowledge through an immersive 3D environment. Th system comprises a 3D visualization engine for interactive plant exploration, a structured knowledge repository containing scientific and traditional medicinal information, AI module including a chatbot for query resolution and a plant identification model for species recognition. A collaborative learning interface enables expert–student inter through workshops, discussions, and assessments. The system is deployable across web, mobile, desktop, and VR/AR platforms, providing accessible, realistic, and interac education on medicinal plants. The invention improves knowledge preservation, enhances experiential learning, and supports research and conservation of traditional AY botanical heritage.

Complete Specification

Description:FIELD OF THE INVENTION

[001] The present invention relates to the fields of digital preservation of traditional medicinal knowledge, immersive educational technologies, and interactive visualizati systems. More particularly, the invention pertains to the creation of a virtual herbal garden platform that integrates 3D visualization, virtual reality (VR), augmented realit (AR), artificial intelligence (AI), and collaborative knowledge-sharing tools to enable immersive exploration, learning, and documentation of medicinal plants used in AYUS systems, including Ayurveda, Yoga & Naturopathy, Unani, Siddha, and Homeopathy. The invention further relates to AI-driven information retrieval, expert–student collaborative interfaces, and digitally structured repositories for the preservation, dissemination, and experiential learning of ethnobotanical and traditional healthcare knowledge within an accessible virtual environment.

BACKGROUND OF THE INVENTION

[002] Traditional medicinal knowledge under AYUSH systems—Ayurveda, Yoga & Naturopathy, Unani, Siddha, and Homeopathy—constitutes a vast repository of plant-based therapeutic practices accumulated over centuries. However, the preservation, accessibility, and transmission of this knowledge face increasing challenges in the modern era. Physical herbal gardens and natural habitats are limited by geography, climate, conservation pressures, and restricted access, making it difficult for students researchers, and practitioners to study medicinal plants in an authentic and comprehensive manner. Rare and endangered species remain largely inaccessible, while ma

View Application Status