AYUSH Startup Registration Portal to streamline the registration process for startups

ABSTRACT

AYUSH which includes Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy is an emerging aspect of traditional healthcare solutions incorporated with technology. However, the registration of such startups in this sector is characterized by inefficiency, lack of transparency, and decentralized mechanisms. Thus, it becomes a barrier for the entrepreneurs. The present research focuses on the problem concerning the absence of efficient, transparent and accessible registration process for AYUSH Start-ups , to propose a holistic solution.

The portal proposed facilitates secure user authentication, seamless application submission, tracking of application status with respect to time, effective document management as well as data security provisions. Moreover, the system eases access to relevant materials and FAQs and helps during the various phases of registering a company. The system is integrated to meet regulatory requirements laid down by the AYUSH system thereby enabling and encouraging the incorporation of AYUSH solutions to the general health care system and its provision services. The research also assesses the functionality, scalability and UI aspects of the portal for the purposes of ensuring optimum user experience. Considering the existing challenges, this is an evolving product and will increasingly sharpen and activate the AYUSH startups thereby enhancing the trajectory of the changing health system.

Introduction
1) introduction

The past few years have seen a remarkable rise in the AYUSH sector because of the universal climb in the need for all-encompassing and traditional medicinal approaches. AYUSH has many elements such as Ayurveda, Yoga and Naturopathy, Unani, Siddha, and Homoeopathy. In India, AYUSH is not however confined in the delivery of healthcare services but is considered as an economic advantage due to its gross proliferation of the growth of startup cultures in the country. Startups are empowered by ancient knowledge placed alongside new modern tech to address the common health care problems. However, the process of setting up of a startup in the AYUSH sector entails numerous challenges especially when it comes to the registration stage.

A lot of factors have contributed to the registration bottleneck plaguing AYUSH startups and these factors include but not limited to overreliance on an archaic fragmented regulatory regime with long processes, vague procedures or no procedures and very little e-governance. These choke points also contribute toward the stifling of startup advancement by the deterring of creative solutions and the dragging of their application into the existing health care systems. This calls for the need to fight these problems if there is to be a thriving AYUSH startup ecosystem development that will serve its purpose to both health and economic levels.

The paper illustrates the above idea in the context of an AYUSH Startup Registration Portal that

is meant to aid the swift turnaround of the registration process. This portal was built using a user-centric design, thus allowing easy and secured access to all the stakeholders, easy to fill application forms and allowing the applicants to track their application in real-time. Additionally, the system which is also being proposed includes emphasis on information protection, regulatory compliance and expandability for the future influx of startups in the industry. With the effective implementation of these strategies, the portal seeks to support AYUSH startups by improving efficiency and reducing bureaucracy, thus allowing them to devote their energies and resources toward working solutions for the healthcare sector.
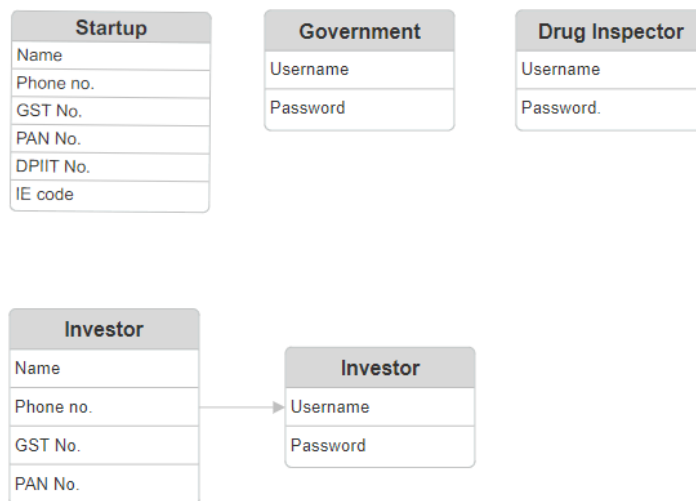
2) Problem Statement

The ongoing registration process for various AYUSH related activities intended for practice sectors like Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homoeopathy is broadly dispersed, ineffective and opaque. This leads to difficulties for the businessmen and businesswomen who have to deal with the system created by the dispersive machineries, many layers of transactions and challenging to get clear guidance or any help. Such problems also make it difficult for the regulation to be adhered to and even more so for the internalization of the AYUSH startups which limits their growth and incorporation in the existing health care system. Therefore, it is necessary to construct a unified web based registration system that would have security features, work effectively, be user friendly, contain a tracker for applications and provide nano hub support during the registration stage. This is very much necessary for embarking on the environmental transformation and development of the enterprises in this sector.

3)Implemented System

Technical approach
The project adopts a robust and scalable technology stack to ensure seamless performance and user experience. The **frontend** is built using **React.js** for a dynamic and interactive user interface, complemented by **HTML/CSS** for structure and styling. State management is handled using **Redux** or **MobX**, enabling efficient data flow and application state control. The **backend** leverages **Node.js** with **Express.js** to manage server-side logic and API routing. For data storage, the choice between **MongoDB** (NoSQL) and **PostgreSQL** (SQL) will be made based on the specific needs of the project, ensuring flexible and efficient data handling. To enhance operational efficiency and deployment, **Docker** is employed for containerization, enabling consistent environments across development and production. **REST APIs** are utilized to facilitate communication between various system components. Additionally, **cloud services** such as **AWS**, **Google Cloud Platform (GCP)**, or **Microsoft Azure** are integrated for scalable and reliable deployment. The platform also features an **AI-powered chatbot** to handle FAQs, improving user support and engagement.

Startup
- Name
- Phone no.
- GST No.
- PAN No.
- DPIIT No.
- IE code

Government
- Username
- Password

Drug Inspector
- Username
- Password.

Investor
- Name
- Phone no.
- GST No.
- PAN No.

→ **Investor**
- Username
- Password

4)References

Literature

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