AYUSH Startup Portal

Synopsis report of Major Project

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE ENGINEERING

Submitted by

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Odd Semester, Session 2023-24

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Abstract

The "Startup Ayush Portal" represents a pivotal solution to longstanding challenges in the Indian healthcare system, focusing on Ayurveda, Yoga, Unani, Siddha, and Homeopathy (AYUSH). This project, persistently featured in the Smart India Hackathon for three years, addresses critical issues in accessibility, information dissemination, and integration with mainstream healthcare. The research underscores the portal's potential impact on reducing healthcare disparities by employing innovative technologies, digital platforms, and a holistic approach. The urgency of its implementation is evident, marking it as a pressing need of the hour for the betterment of healthcare in India.

The research investigates the current challenges faced by AYUSH practitioners, such as limited reach, lack of standardized information, and insufficient integration with mainstream healthcare systems. By harnessing the power of digital tools, the Startup Ayush Portal aims to bridge these gaps and provide a cohesive ecosystem that fosters collaboration between traditional and modern healthcare systems.

Introduction

The AYUSH system is deeply rooted in ancient Indian wisdom and practices, offering holistic healthcare solutions that address not just physical ailments but also mental and emotional well-being. Ayurveda, Yoga, Naturopathy, Unani, Siddha, and Homeopathy collectively provide a comprehensive approach to health and wellness. These systems, with their time-tested remedies and therapies, have garnered a global following due to their efficacy and minimal side effects.

The Startup AYUSH Portal is a groundbreaking initiative designed to revolutionize the AYUSH (Ayurveda, Yoga & Naturopathy, Unani, Siddha, and Homeopathy) sector by fostering a dynamic and collaborative environment for startups, investors, incubators, accelerators, government agencies, and the public.

In an era where health and wellness are paramount The Startup AYUSH Portal emerges as a timely and promising platform that aims to propel the AYUSH ecosystem into the future by promoting innovation, networking, and resource-sharing.

Motivation

The motivation behind creating the Startup Ayush Portal stems from a recognition of various challenges and opportunities within the sector of Ayurveda, Yoga, Unani, Siddha, and Homeopathy (AYUSH). Stakeholders in this domain have identified key motivations for developing the portal, driven by a shared vision to enhance the overall efficacy, accessibility, and integration of AYUSH practices into the larger healthcare landscape. The primary motivations for stakeholders include:

1. Enhanced Accessibility:

- Facilitating wider access to AYUSH therapies for individuals across diverse geographical locations and socio-economic backgrounds.
- Breaking down barriers that restrict the reach of traditional healthcare practices.

   2. Information Standardization:

- Creating a centralized platform that standardizes information related to AYUSH practices, ensuring accurate and reliable data for practitioners and patients alike.
- Addressing the current challenge of inconsistent information dissemination within the AYUSH sector.

3. Integration with Modern Healthcare:

- Fostering collaboration and integration of AYUSH practices with mainstream healthcare systems.
- Encouraging a comprehensive and complementary approach to healthcare that combines traditional wisdom with modern medical advancements.

4. Technological Advancements:

- Harnessing the power of technology, such as telemedicine and artificial intelligence, to enhance the delivery of AYUSH services.
- Leveraging digital platforms to bridge the gap between practitioners and patients, facilitating efficient communication and consultation.

5. Community Empowerment:

- Empowering individuals to make informed decisions about their health by providing access to reliable information on AYUSH practices.

- Enabling self-care and preventive healthcare measures through educational resources available on the portal.

6. Entrepreneurial Opportunities:

- Creating a platform that supports and promotes entrepreneurship within the AYUSH sector.
- Fostering the growth of startups and innovations that contribute to the development of AYUSH practices and services.

7. Healthcare Disparity Reduction:

- Contributing to the reduction of healthcare disparities by democratizing access to AYUSH therapies and information.
- Ensuring that individuals from all walks of life can benefit from the holistic approach offered by AYUSH practices.

Background

Over the years, there has been a growing interest in these alternative systems of medicine, both nationally and internationally.

Several developments may have taken place in the AYUSH sector, contributing to the creation of a startup portal. Some potential background elements include:

1. Government Initiatives:

   - The Government of India has been actively promoting AYUSH through schemes, research funding, and the establishment of AYUSH research centres and institutions.

2. Digital Integration:

   - Digital platforms and mobile applications have emerged to provide information about AYUSH practices, wellness tips, and consultation services.

3. Education and Training:

   - Institutes offering education and training in AYUSH disciplines have proliferated, contributing to a better-trained workforce in these traditional healthcare systems.

4. Research and Development:

   - Ongoing research in the AYUSH sector to validate traditional practices, explore new formulations, and integrate evidence-based approaches into healthcare.

5. International Recognition:

   - Growing international interest and recognition of AYUSH practices, leading to collaborations and partnerships with other countries for the promotion of traditional medicine.

Planning of Work

Technologies to Be Used

1. Cross-Platform Development Technologies: The portal will be built using modern cross platform development technologies, primarily FLUTTER ensuring a responsive and user-friendly interface.

2. Cloud Computing: Leveraging cloud services will ensure scalability and reliability for the portal. Cloud platforms like Amazon Web Services (AWS) or Microsoft Azure will be considered to host the portal's infrastructure.

3. Community Building and Social Integration: The portal will incorporate social networking features, allowing users to connect, share experiences, and collaborate. Technologies like social media integration and community forums will facilitate this.

4. Chatbot Integration: Integrating a chatbot into the Startup AYUSH Portal can enhance user experience, provide valuable assistance, and streamline interactions.

GANTT CHART (TENTATIVE)

1. Learn Flutter Basics and Setup Development Environment:

- Duration: 1 week

2. Learn Firebase Basics and Set Up Firebase Project:

- Duration: 1 week

3. Design Database Schema for Ayush Portal:

- Duration: 1 week

4. Implement User Authentication using Firebase:

- Duration: 2 weeks

5. Develop Home Page and Navigation Structure:

- Duration: 2 weeks

6. Integrate Firebase Cloud Firestore for Data Storage:

- Duration: 2 weeks

7. Implement AYUSH Information Pages (Ayurveda, Yoga, Unani, Siddha, Homeo):
- Duration: 3 weeks

8. Integrate Search Functionality for AYUSH Information:
- Duration: 2 weeks

9. Implement User Profile Management and Settings:
- Duration: 2 weeks

10. Integrate Telemedicine Features (Optional):
   - Duration: 4 weeks

11. Testing and Debugging:
   - Duration: 3 weeks

12. User Acceptance Testing (UAT):
   - Duration: 2 weeks

13. Documentation and User Guides:
   - Duration: 2 weeks

14. Final Review and Deployment:
   - Duration: 1 week

(These estimates are based on general assumptions and the complexity of the tasks. Real-world development may encounter unforeseen challenges, and adjustments to the timeline may be necessary.)

The Startup AYUSH Portal aspires to be more than just a website; it will be a transformative force in the AYUSH ecosystem. By harnessing the power of technology and collaboration, it will empower startups, facilitate investments, enhance research, and raise awareness about the holistic benefits of AYUSH systems.

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