

INTERNATIONALJOURNALFORENGINEERINGAPPLICATIONSAND TECHNOLOGY TITLE: MEDICAL ENHANCED SYSTEM PROVIDING MEDICAL FACILITY AT EVERY CORNER OF THE CITY AND REMOTE AREA

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Abstract

The concept of the Medical Enhancement System as a solution Introducing the revolutionary Medical Enhancement System an innovative solution designed to provide accessible medical facilities at every corner of both urban and remote areas. This system aims to bridge the healthcare gap by bringing essential medical services closer to communities, ensuring prompt care and improved well-being for all.

Through strategically placed facilities and advanced telemedicine technologies, our goal is to make quality healthcare a reality for everyone, regardless of their location.

medical enhanced system that leverages advanced technological solutions within medical facilities to improve patient care and streamline healthcare operations.

The system integrates cutting-edge technologies such as artificial intelligence, data analytic to optimize diagnosis, treatment, and administrative processes. By seamlessly connecting medical devices, patient records, and healthcare professionals, the system enhances clinical decision-making, reduces human errors, and enhances overall efficiency.

This paper outlines the architecture, components, and benefits of the proposed system, highlighting its potential to revolutionize healthcare delivery and patient outcomes.

Index Terms: Medical based enhance system providing medical facilities at the every corner of city and remote area.

1. INTRODUCTION

A medical enhanced system is a technology-driven solution that aims to improve healthcare services and patient outcomes in medical facilities.

It is advanced technologies such as artificial intelligence, data analytic and automation to enhance medical processes, diagnosis, treatment, and overall patient care.

By implementing this system, medical facilities can streamline operations, improve efficiency, and deliver better healthcare services to patients.

1.1 Purpose

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A medical-based enhanced system typically refers to advanced technologies and systems used in the field of healthcare to improve patient care, streamline processes, and enhance medical research. The primary purposes include:

1. Patient Care: These systems can improve the diagnosis and treatment of medical conditions, leading to better patient outcomes and quality of care.

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2. Efficiency: They can streamline administrative tasks, electronic health records management, and appointment scheduling, reducing administrative burdens on healthcare providers.

3. Research: Medical-based enhanced systems can facilitate data collection and analysis for medical research, leading to the development of new treatments and interventions.

4. Telemedicine: They enable remote consultations and monitoring, increasing access to healthcare services, especially in undeserved areas.

2. LITERATURE SURVEY

Kobayashi I, Iwazaki A, Sasaki K: FACT-V: Universal access and quality of interaction for Automatic Teller Machine (ATM). Interactive poster, Japan: 6th ERCIM Workshop 2006 "User Interfaces for All"; Japan 2006.

"Guidelines for the early management of patients with myocardial infarction", BMJ, vol. 308, pp. 767-771, 1994.

G. Heriot, "Delay in presentation after myocardial infarction", J-R-Soc-Med, vol. 86, pp. 642-644, 1993.

"Ministry of Health of Ukraine State Institution "UISD of the Ministry of Health of Ukraine" in , Kyiv:IEC "Medinform", pp. 458, 2018.

Wireless telemedicine services over integrated IEEE 802.11/WLAN and IEEE 802.16/WiMAX network



Fig: Working of Software

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Table: System Requirements for Medical Enhancement System

	Minimum	Maximum
OS	Windows 7	Windows 11
Software	HTML ,CSS ,	JavaScript ,Python
	MySQL	,PHP
Hardware	Computer, Android device	

3. Registration Using Web Application

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Fig-1: MES-Admin Control



Fig-2: Dashboard of MES Admin





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Fig-4: User Profile 4. Problem Identification

While a medical enhanced system brings numerous benefits to medical facilities, it also poses some challenges that need to be addressed. As medical enhanced systems handle sensitive patient information, ensuring data privacy and security becomes paramount. Implementing a medical enhanced system requires healthcare professionals to adapt to new technologies and workflow.

5. MES Applications:

Creating a medical-based enhancement project with facilities in both urban and remote areas is a commendable initiative. The application can include features like:

1. Telemedicine Services: Provide remote consultations with healthcare professionals via video calls, enabling people in remote areas to access medical advice. 2. Appointment Scheduling: Allow users to schedule appointments with nearby medical facilities through the app, reducing waiting times and improving efficiency.

3. Health Records Management: Implement a secure system for storing and managing patients' health records, ensuring easy access for both patients and healthcare providers.

4. Emergency Services: Include a feature for emergency medical services, enabling users to quickly request assistance and providing first aid guidelines while help is on the way.

5. Medication Reminders: Send timely reminders for medication doses, helping patients adhere to their prescribed treatments.

6. Health Education: Provide reliable health information and tips to users, promoting preventive care and healthy lifestyles.

7. Community Engagement: Foster a sense of community by allowing users to share health-related experiences, tips, and support within the app.

8. Medical Supply Chain Management: Implement a system for tracking and managing medical supplies, ensuring that remote areas have access to necessary medications and equipment.

9. Health Camps and Outreach: Facilitate organizing health camps and medical outreach programs in remote areas, connecting healthcare professionals with communities in need.

10. Feedback and Improvement: Gather feedback from users to continuously improve the services and address any issues faced by the community.

By incorporating these features, the application can serve as a comprehensive platform for medical assistance, bridging the gap between urban medical facilities and remote areas, ultimately improving healthcare accessibility and outcomes for people in all regions..

6.DESIGN METHODOLOGY

The aim of a medical enhancement system providing medical facilities at every corner of city and remote areas is to leverage the power of artificial intelligence to

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improve various aspects of healthcare, medical research, and patient outcomes aim of the enhanced medical system is to create an innovative and patient-centric healthcare ecosystem that optimizes the utilization of medical facilities, leveraging advanced technologies and streamlined processes. By achieving this aim, the enhanced system seeks to provide high-quality, accessible, and efficient healthcare services, ultimately improving patient outcomes, enhancing resource allocation, and advancing the overall healthcare experience.

7. CONCLUSION

This case study highlights that EMR implementation is not a pure IT project but an IT-based complex social adaptive project requiring a specific set of leadership competencies that are central to its success. It contributes to the literature indicating that the change management models might be useful for large-scale EMR implementation Expanding medical enhanced systems to remote areas could involve deploying mobile health units, leveraging telemedicine for remote consultations, and implementing advanced diagnostics in portable formats. Additionally, integrating AI for quick and accurate medical assessments, and establishing training programs for local healthcare providers to enhance medical services in these areas would be beneficial.

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