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(57) Abstract :

ABSTRACT AN ARTIFICIAL INTELLIGENCE BASED UNIFIED PATIENT HEALTHCARE REPOSITORY SYSTEM AND METHOD FOR ACCESSING AND STREAMLINING HEALTH RECORDS The present invention relates to a unified patient healthcare repository system and method for accessing and streamlining health records using artificial intelligence (AI). The proposed system comprises a data synchronization module (1), to maintain consistent records across databases by synchronizing new entries in real-time, allowing healthcare providers to access the most current patient information without manual intervention. An intelligent health record assistant (2), characterized in that AI-based retrieval-augmented generation (RAG) and natural language processing. Once processed, the data becomes readily accessible to authorized users across the healthcare ecosystem, allowing for seamless data sharing (3) to provide healthcare providers with contextualized responses and summaries of patient history, enabling efficient decision-making. Secure multimedia storage (4) using central server handles lab reports and imaging files, offering secure, compliant storage and easy retrieval of these records. To be published with Figure 1

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