

Government File Tracking System Using Block Chain

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ABSTRACT

By utilizing blockchain technology, this initiative presents a new method for tracking government files. Users can safely monitor the status of their government applications from submission to approval via a decentralized ledger. The unchangeable character of Blockchain builds system confidence by guaranteeing transparency and thwarting meddling. The technology speeds up the decision-making process and improves user experience by offering real-time information and notifications. This creative approach has the potential to completely transform government services and promote increased efficiency and accountability in public administration

Keywords:
technology, Transparency, Real-time information, Government files tracking

Blockchain

1. INTRODUCTION

In the current digital era, modernizing government services has become increasingly crucial, necessitating the deployment of innovative solutions to enhance user experience and speed up bureaucratic processes. This project provides a fresh approach to tracking official documents by harnessing the transformative power of blockchain technology. Traditional techniques for monitoring the evolution of government applications are sometimes plagued by issues

with opacity, inefficiency, and vulnerability to manipulation. However, the proposed solution uses the decentralized ledger of blockchain technology to give

people a transparent and safe way to track the status of their government applications. Users may be completely sure that their data is accurate and legitimate because blockchain technology is unchangeable. Furthermore, incorporating real-time notifications and updates enhances the user experience by providing users with instant access to information on the status of their apps and simplifying expedited decision-making processes. By spearheading the transformation of government services with blockchain technology, this innovative method has the potential to foster greater accountability, efficacy, and trust in public administration. It is prepared to usher in an era of transparency and responsiveness, paving the way for a government that is more technologically advanced and centered on the demands of its constituents.

2. LITERATURE SURVEY

1. 2019 saw Smith and associates write "Blockchain Technology in Government: Benefits and Challenges." An outline of the possible advantages and difficulties of integrating blockchain technology into government processes is given in this article. It talks about the function of blockchain in improving the effectiveness, security, and openness of public administration while tackling issues like interoperability, scalability, and regulatory compliance.
2. "Blockchain for Government: A Systematic Literature Review" by Jones et al. (2020). This thorough review of the literature looks at the present corpus of work on blockchain applications in government services. The many blockchain application scenarios are categorized by it in areas such as identity

management, voting systems, supply chain management, and file tracking.

3. In the year 2021, Chen and colleagues released "Enhancing Government Services through Blockchain Technology: A Case Study Approach." This case study highlights specific use cases and real-world examples of how blockchain technology is being applied in government services.

worldwide applications. It examines the benefits and challenges of integrating blockchain technology into procedures including document validation, property registry management, and public procurement. The paper clarifies the lessons learned and practical uses of blockchain technology.

4. In the year 2022, Chen and colleagues released "Enhancing Government Services through Blockchain Technology: A Case Study Approach." This instance

"Blockchain-Based Solutions for Government: A Comprehensive Review" by Kumar et al., 2021. This comprehensive assessment provides a detailed analysis of blockchain-based solutions for various government uses. It covers topics such as digital

electronic voting systems, identity management, smart contracts, and supply chain tracking. The analysis evaluates the extent to which blockchain can improve government services and identifies possible research topics and challenges.

5. Li and colleagues' article "Transforming Government Services with Blockchain Technology: Opportunities and Challenges" (2023). This essay discusses the potential and challenges of using blockchain technology to transform government services. It looks into how blockchain could enhance citizen participation, accountability, and transparency in public administration. The research also discusses the technological, organizational, and legal challenges of implementing blockchain technology in government contexts.

3. METHODOLOGY

1. User Module:

- The purpose of the User Module is to support individuals or groups that use the government file tracking system. Users can register, apply, track the progress of their applications, and receive notifications

when decisions or changes are made. This module provides a user-friendly interface for efficient file management and access.

2. Admin Module:

- The Admin Module focuses on government administrators or officials who oversee the administration of the entire file tracking system. Administrators have access to extensive dashboards and tools to monitor system activity, manage user accounts, allocate personnel, assess applications, and generate reports. This module ensures that the system is controlled and functions properly.

3. Government Employee Module:

- Employees in government organizations who manage application processing and decision-making are served by the Government Employee Module. Employees have the ability to access assigned tasks, review application data, and change file statuses, contact applicants when necessary, and escalate issues as necessary. This module streamlines workflow and improves application processing efficiency for government employees.

4. Blockchain Module:

- Government employees who manage application processing and decision-making are supported by the Government Employee Module. Employees are able to view assigned tasks, examine application data, and edit track the status of files, contact applicants when necessary, and escalate issues as necessary. This module improves application processing efficiency and simplifies workflow for government employees.

5. Government Scheme Module:

The Government Scheme Module integrates information on various government services, programs, or schemes that are available to businesses or individuals. It provides details on the prerequisites for eligibility, the application procedure, and the accompanying documentation.

requirements and relevant deadlines. By learning about different programs and properly launching applications, consumers can improve accessibility and comprehension of government services.

3.1 OBJECTIVES

1. Develop a Secure Tracking System:

Use blockchain technology to safely and openly monitor government applications from submission to approval.

2. Provide Real-Time Updates:

Provide users with the most up-to-date information and alerts regarding the status of their apps in order to increase user happiness and engagement.

3. Implement User-Centric Features:

3.2 NEED AND SCOPE OF THE STUDY

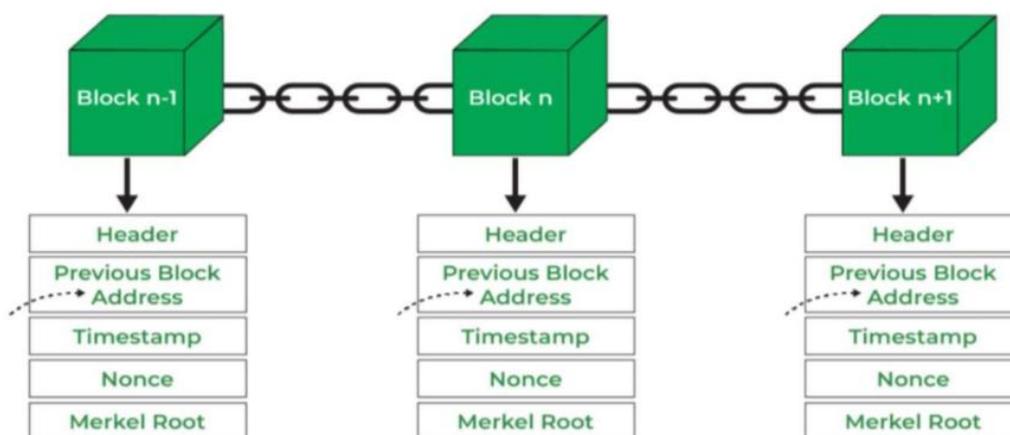
Establishing a blockchain-based system for monitoring government files requires a number of important steps. The initial stages entail selecting an appropriate

blockchain platform and developing smart contracts to manage the file tracking process. User interfaces for different components are developed.

Modules are also integrated with the blockchain network, which has been put up. Security measures like user authentication and data encryption are implemented to safeguard sensitive information. Real-time notifications, application submission, and progress tracking tools are all geared to ensure an ideal user experience. Administrative tools are also supplied to help with efficient application processing and evaluation. Following thorough testing, the system is placed into use in a production setting, where any issues are regularly tracked and fixed to incorporate user feedback. The platform intends to improve the efficiency, security, and transparency of government file tracking by implementing these changes and revolutionizing public administration practices. It Provide an easy-to-use platform that protects data while facilitating communication with government agencies

3.4 BLOCK CHAIN ARCHITECTURE

Blockchain Architecture



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