

Avoiding Illegal Land Registry using Blockchain

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Abstract: *The Land Registry system is an essential department for any government system, who maintains the crucial information about the land like ownership, transaction history and many more. There are various escape clauses in existing framework that raise the possibilities of misdirection and questions. To resolve this issue, we have accompanied an answer of carrying out blockchain in the land vault framework. A safe stage for land library framework utilizing Blockchain has been anticipated. Blockchain here is utilized as partner electronic record of computerized records and exchanges that are scrambled utilizing cryptography[1]. This framework targets concocting a model for secure and consistent land enlistment framework upheld blockchain innovation, which can make simple to dispose of the provisos in the ongoing area vault framework. Our framework gives one-of-a-kind character to each land, enlisted and checked for the land proprietor which can't be altered or repeated in this way, this gives secure exchanging of land. The land proprietor will be furnished with the ID when the land is enrolled in our framework and will be moved to the next client once he sells his territory. So, nobody can imitate as other client and there will no opportunities for deceitful or trick.*

Keywords: Land Registry system

REFERENCES

- [1]. Siddhant Chatterjee, Ayesha Shaikh, Anjali Singh, Pravin Jangid, Land Registry System using Blockchain (2022), volume 09
- [2]. Anthony Williams Deep Center, India's Land Registry using blockchain (2018),[1][4].
- [3]. Mohammed Shuaib, Salwani Mohd Daud, Shadab Alam, Wazir Zada Khan, Blockchain based Framework for secure and reliable land registry system (Oct 2020), volume 18[2][5]
- [4]. Hannah Natasha Hariharan, Abarnah Kirupananda, Chain of ownership-A solution to reduce land forgery through a transparent land ownership portal (2021)
- [5]. C. Roopa, R.C. Suganthe and N. Shanthi, "Blockchain Based Certificate Verification Using Ethereum And Smart Contract", Journal of Critical Reviews, vol. 7, no. 9, pp. 330-336, 2020.[3][6]
- [6]. N. Shanthi, R. Suvitha and R.C. Suganthe, "Blockchain Based E-Voting Approach in P2p Network", Journal of Critical Reviews, vol. 7, no. 9, pp. 337-342, 2020.
- [7]. A. Sahai and R. Pandey, "Smart Contract Definition for Land Registry in Blockchain", 2020 IEEE 9th International Conference on Communication Systems and Network Technologies (CSNT), pp. 230-235, 2020.[7][9]
- [8]. Kaczorowska and Maria, "Blockchain-based Land Registration: Possibilities and Challenges", Masaryk University Journal of Law and Technology, 2019.
- [9]. Pournader, M., Javadi, B., & Alhadidi, Blockchain Applications in Land Transactions: A Decentralized Approach." 21st ACM/IEEE International Conference on Model Driven Engineering Languages and Systems, 2018[10][11]
- [10]. Muneeb, S., Azam, M. A., & Qamar, "Blockchain-Based Land Registry: An Architecture and a Prototype." International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), 2018[8][13]
- [11]. Elmasri, M., & Eskandari, Land Registry: A Decentralized Land Ownership Recording System." International Conference on Distributed Computing Systems, 2019
- [12]. Wang, J., Yu, J., & Moon, Towards Blockchain-Based Land and Property Transaction: A Survey." IEEE International Conference on Web Services (ICWS), 2018

- [13]. Petrov, N., & Taslaman, "Blockchain in Land Registration, Cadastre and Real Property Transactions", In International Conference on Theory and Practice of Electronic Governance, 2017.
- [14]. Paul, S., & Sinha, "Blockchain for Land Registry and Land Transaction in India: Prospects and Challenges." International Conference on Automation, Computational and Technology Management, 2019.
- [15]. Makori, A., & Johnston, K. "Blockchain for Land Administration: Opportunities and the Need for a Coordinated Approach.", Land Use Policy, 76, 705-712, 2018 [12][14]
- [16]. Meier, A., Klein, L. A., & Riedl, C. "The Use of Blockchain in Land-Administration: A Research Framework." Hawaii International Conference on System Sciences, 2019. [15]
- [17]. Klinc, D., & Gams, M. "Blockchain-Based Land Registry: Panacea or Myth?" In European Conference on e-Learning (Vol. 1, p. 439), 2019