

## DAFTAR PUSTAKA

- [1] A. Martiny, "One-click login with blockchain: A metamask tutorial," *Toptal Engineering Blog*, 02-Apr-2018. [Online]. Available: <https://www.toptal.com/ethereum/one-click-login-flows-a-metamask-tutorial>. [Accessed: 06-Nov-2022].
- [2] A. Saputra, "Dear detik's advocate, APA Sanksi Pidana Untuk Pemalsu Ijazah?," *Dear detik's Advocate, Apa Sanksi Pidana untuk Pemalsu Ijazah?*, 10-Aug-2021. [Online]. Available: <https://news.detik.com/berita/d-5676541/dear-detiks-advocate-apa-sanksi-pidana-untuk-pemalsu-ijazah/2>. [Accessed: 06-Nov-2022].
- [3] B. Meyer, *Storing documents on the blockchain*, 07-Sep-2022. [Online]. Available: <https://www.textcontrol.com/blog/2022/01/21/storing-documents-on-the-blockchain/>. [Accessed: 06-Nov-2022].
- [4] "Blockchain - Hyperledger vs Ethereum," *GeeksforGeeks*, 05-Jul-2022. [Online]. Available: <https://www.geeksforgeeks.org/blockchain-hyperledger-vs-ethereum/>. [Accessed: 13-Nov-2022].
- [5] *Bunyi Pasal 263 KUHP Tentang Pemalsuan Dokumen*, 26-Feb-2022. [Online]. Available: <https://kumparan.com/berita-terkini/bunyi-pasal-263-kuhp-tentang-pemalsuan-dokumen-1xZzHuFoacH>. [Accessed: 06-Nov-2022].
- [7] D. Huang, X. Ma, and S. Zhang, "Performance analysis of the raft consensus algorithm for private blockchains," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 50, no. 1, pp. 172–181, 2020.
- [8] D. Ongaro, J. K. Ousterhout, Mazières David, and M. Rosenblum, "Consensus: Bridging theory and practice," dissertation, Stanford University, Stanford, California, 2014.
- [9] D. Ongaro, "Raftscope," *raftscope/raft.js*, 02-Jul-2015. [Online]. Available: <https://github.com/ongardie/raftscope/blob/master/raft.js>. [Accessed: 24-Mar-2023].
- [10] DetikSultra, "Tersandung Kasus Pemalsuan Ijazah, Kades Katela Mubar Segera Dinonaktifkan," *DetikSultra.com*, 07-Jul-2022. [Online]. Available: <https://detiksultra.com/berita-daerah-sulawesi-tenggara/muna-barat/tersandung-kasus-pemalsuan-ijazah-kades-katela-mubar-segera-dinonaktifkan>. [Accessed: 06-Nov-2022].
- [11] E. Jacob, "What is a QR code? A guide to the Barcode's basics, why you're seeing it everywhere, and how to Scan One," *Business Insider*, 03-May-2021. [Online]. Available: <https://www.businessinsider.com/guides/tech/what-is-a-qr-code>. [Accessed: 18-Dec-2022].

- [12] F. F. Rochman, I. K. Raharjana, and T. Taufik, "Implementation of QR code and digital signature to determine the validity of KRS and KHS documents," *Scientific Journal of Informatics*, vol. 4, no. 1, pp. 8–19, 2017.
- [13] G. Maulani, G. Gunawan, L. Leli, E. Ayu Nabila, and W. Yestina Sari, "Digital Certificate Authority with Blockchain Cybersecurity in education," *International Journal of Cyber and IT Service Management*, vol. 1, no. 1, pp. 136–150, 2021.
- [14] G. Yang, K. Lee, K. Lee, Y. Yoo, H. Lee, and C. Yoo, "Resource analysis of blockchain consensus algorithms in Hyperledger Fabric," *IEEE Access*, vol. 10, pp. 74902–74920, 2022.
- [15] H. Clifton, M. Chapman, and S. Cox, "'staggering' trade in fake degrees revealed," *BBC News*, 16-Jan-2018. [Online]. Available: <https://www.bbc.com/news/uk-42579634>. [Accessed: 17-Oct-2022].
- [16] Hyperledger Bevel, "Configuration file specification: Hyperledger-fabric¶," *Configuration file specification: Hyperledger-Fabric - Hyperledger Bevel 0.10.0 documentation*, 2021. [Online]. Available: [https://blockchain-automation-framework.readthedocs.io/en/latest/operations/fabric\\_networkyaml.html](https://blockchain-automation-framework.readthedocs.io/en/latest/operations/fabric_networkyaml.html). [Accessed: 18-Dec-2022].
- [17] Hyperledger Foundation, "Hyperledger architecture, volume 1," *Hyperledger Arch\_WG\_Paper\_1\_Consensus*, Aug-2017. [Online]. Available: [https://www.hyperledger.org/wp-content/uploads/2017/08/Hyperledger\\_Arch\\_WG\\_Paper\\_1\\_Consensus.pdf](https://www.hyperledger.org/wp-content/uploads/2017/08/Hyperledger_Arch_WG_Paper_1_Consensus.pdf). [Accessed: 11-Dec-2022].
- [18] Hyperledger Foundation, "Hyperledger Architecture, Volume 1." [Online]. Available: [https://www.hyperledger.org/wp-content/uploads/2017/08/Hyperledger\\_Arch\\_WG\\_Paper\\_1\\_Consensus.pdf](https://www.hyperledger.org/wp-content/uploads/2017/08/Hyperledger_Arch_WG_Paper_1_Consensus.pdf). [Accessed: 11-Dec-2022].
- [19] Hyperledger Team, "Hyperledger Fabric model," *hyperledger*. [Online]. Available: [https://hyperledger-fabric.readthedocs.io/en/latest/fabric\\_model.html](https://hyperledger-fabric.readthedocs.io/en/latest/fabric_model.html). [Accessed: 06-Nov-2022].
- [20] Hyperledger, "The ordering service," *hyperledger-fabricdocs*, 01-Jun-2021. [Online]. Available: [https://hyperledger-fabric.readthedocs.io/en/release-2.5/orderer/ordering\\_service.html](https://hyperledger-fabric.readthedocs.io/en/release-2.5/orderer/ordering_service.html). [Accessed: 25-Mar-2023].
- [21] Hyperledger, "Using configtx.yaml to build a channel configuration," *hyperledger-fabricdocs*, 19-Aug-2021. [Online]. Available: [48](https://hyperledger-</a></p></div><div data-bbox=)

fabric.readthedocs.io/en/release-2.5/create\_channel/create\_channel\_config.html.

[Accessed: 24-Mar-2023].

- [22] IBM Blockchain Education, “What are smart contracts on Blockchain?,” *What are smart contracts on blockchain?* [Online]. Available: <https://www.ibm.com/topics/smart-contracts>. [Accessed: 18-Dec-2022].
- [23] IBM Cloud Education, *What is Docker?*, 16-Jun-2022. [Online]. Available: <https://www.ibm.com/cloud/learn/docker>. [Accessed: 18-Dec-2022].
- [24] IBM, “IBM/raft-fabric-sample: Build and run a hyperledger fabric network using the RAFT Consensus Protocol. deploy a five-node ordering service, submit transactions via the Fabcar UI, and test the network by stopping some of the ordering nodes.,” *GitHub*, 2021. [Online]. Available: <https://github.com/IBM/raft-fabric-sample>. [Accessed: 13-Mar-2023].
- [25] J. H. Chang, “An introduction to using QR codes in scholarly journals,” *Science Editing*, vol. 1, no. 2, pp. 113–117, 2014.
- [26] J. G. Dongre, S. M. Tikam, K. T. Patil, and V. B. Gharat, “Education degree fraud detection and student certificate verification using blockchain,” *Education Degree Fraud Detection and Student Certificate Verification using Blockchain*, vol. V9, no. 07, Jul. 2020. doi:10.17577/ijertv9is070156
- [27] J. Hu and K. Liu, “Raft consensus mechanism and the applications,” *Journal of Physics: Conference Series*, vol. 1544, no. 1, May 2020.
- [28] Legal smart channel, “Konsultasi Hukum,” *Legal smart channel*. [Online]. Available: <https://lsc.bphn.go.id/konsultasiView?id=391>. [Accessed: 06-Nov-2022].
- [29] M. A. Ali and W. S. Bhaya, “Higher education’s certificates model based on Blockchain technology,” *Journal of Physics: Conference Series*, vol. 1879, no. 2, p. 022091, 2021.
- [30] M. A. Kusuma, P. Sukarno, and A. A. Wardana, “Security System for digital land certificate based on Blockchain and QR code validation in Indonesia,” *EasyChair Home Page*, <https://easychair.org/publications/preprint/GRgs> (accessed Jul. 2023).
- [31] N. Jhingan, “Stop fake degree scams with Document Security QR code,” *Times of India Blog*, 15-Jan-2019. [Online]. Available: <https://timesofindia.indiatimes.com/blogs/reimagining-document-security-with-qr-codes/stop-fake-degree-scams-with-document-security-qr-code>. [Accessed: 06-Nov-2022].
- [32] Nasution and L. Iswari, *Penerapan React JS Pada Pengembangan FrontEnd Aplikasi StartupUbaform*, vol. 2, Aug. 2021.

- [33] P. Walton, "Web vitals," web.dev, [Online]. Available: <https://web.dev/vitals> [accessed Jul. 2023].
- [34] QR code team, "Types of QR Code," *Types of QR Code / QRcode.com / DENSO WAVE*. [Online]. Available: <https://www.qrcode.com/en/codes/>. [Accessed: 18-Dec-2022].
- [35] R. F. Ghani, A. A. Salman, A. B. Khudhair, and L. Aljobouri, "Blockchain-based student certificate management and system sharing using hyperledger fabric platform," *Periodicals of Engineering and Natural Sciences (PEN)*, vol. 10, no. 2, p. 207, 2022. doi:10.21533/pen.v10i2.2839
- [36] R. Hall, "UK degree fraud: 85 Fake University websites taken down in five years," *The Guardian*, 18-Feb-2021. [Online]. Available: <https://www.theguardian.com/education/2021/feb/18/uk-degree-85-fake-university-websites-taken-down-in-five-years>. [Accessed: 17-Oct-2022].
- [37] S. Nakamoto, "A peer-to-peer electronic cash system," Bitcoin, <https://bitcoin.org/en/bitcoin-paper> (accessed Jul. 2023).
- [38] SaaSHub, "Metamask.io vs Hyperledger Fabric - compare differences & reviews?," *MetaMask.io VS Hyperledger Fabric - compare differences & reviews?* [Online]. Available: <https://www.saashub.com/compare-metamask-io-vs-hyperledger-fabric>. [Accessed: 13-Nov-2022].
- [39] Supercode, "Dynamic vs. Static QR codes: What's the difference?," *Create QR Codes in Seconds*, 26-Apr-2021. [Online]. Available: <https://supercode.com/blog/dynamic-vs-static-qr-codes>. [Accessed: 18-Dec-2022].
- [40] The Secret Lives of Data, *Raft*. [Online]. Available: <http://thesecretlivesofdata.com/raft/>. [Accessed: 13-Mar-2023].
- [41] T. J. A. Pramesti, "Unsur Pidana Dan Bentuk Pemalsuan Dokumen - Klinik Hukumonline," *hukumonline.com*, 09-Oct-2014. [Online]. Available: <https://www.hukumonline.com/klinik/a/unsur-pidana-dan-bentuk-pemalsuan-dokumen-lt54340fa96fb6c>. [Accessed: 06-Nov-2022].
- [42] Z. Wang et al., "Blockchain-based certificate transparency and revocation transparency," *IEEE Transactions on Dependable and Secure Computing*, vol. 19, no. 1, pp. 681–697, 2022. doi:10.1109/tdsc.2020.2983022