DAFTAR PUSTAKA

Åvik Persson, H., Castor, C., Andersson, N., & Hylén, M. (2025). Swedish version of the System Usability Scale: Translation, adaption, and psychometric evaluation. JMIR Human Factors, 12(1). https://humanfactors.jmir.org/

Bai, A. (2022). *Million.js: A fast compiler-augmented virtual DOM for the web.* Cornell University. https://doi.org/10.48550/arxiv.2202.08409

Ben Sassi, R. (2024). From bytes to insights: The essence of diffing algorithms in change detection. https://levelup.gitconnected.com/diffing-algorithm-change-detection-d8b2468565c2?gi= 55194274aa4a

Bhat, S., Ramesh, K., & Khan, M. (2023). ReactJS: A comprehensive analysis of its features, performance, and suitability for modern web development. International Journal of Scientific Research in Engineering and Management, 7(9). https://doi.org/10.55041/ijsrem25667

Dermawan, K. T., Maysanjaya, I. Md. D., & Putrama, I. M. (2020). Encrypted real-time communication web (WEBRTC) using the principle of virtual DOM rendering cycles. Journal of Physics Conference Series, 1516(1), 012004. https://doi.org/10.1088/1742-6596/1516/1/012004

Hallie, L., et al. (2024). React selective hydration. Patterns.dev. https://www.patterns.dev/react/react-selective-hydration/

Hariyono, & Putra, A. E. P. (2025). Revolusi digital dalam pertanian: Transformasi ekonomi mikro agribisnis di era yang akan datang. Penerbit Widina Media Utama. https://repository.penerbitwidina.com/media/publications/618894-revolusi-digital-dalam-pertanian-transfo-dec2196d.pdf

Hasani, R. A. (2022). Uji prototype metode design thinking pada penyebaran. International Journal of Creative and Innovation.

Hayoung, L., et al. (2022). How Rakuten 24's investment in Core Web Vitals increased revenue per visitor by 53.37% and conversion rate by 33.13%. https://web.dev/case-studies/rakuten

Karras, A., et al. (2023). Adaptive Indexing of Objects with Spatial Extent. Proceedings of the VLDB Endowment, 16(9), 2248–2260.

Keploy. (2024). Understanding the Virtual DOM: Revolutionizing Web Development. https://dev.to/keploy/understanding-the-virtual-dom-revolutionizing-web-development-a

Kleinssman, M., & ten Bhömer, M. (2020). The (new) roles of prototypes during the co-development of digital product service systems. International Journal of Design, 14(1), 65-

Kondaveeti, H. K. (2021). A systematic literature review on prototyping with Arduino: Applications, challenges, advantages, and limitations. Computer Science.https://www.sciencedirect.com/science/article/pii/S1574013721000046

Kothandapani, S., Recharla, P. K., Pasupula, P. A., Gunupuru, S., & Syed, S. A. (2023). An improved self-learning management system using modern Next.js. AIP Conference Proceedings, 2889(1), 020053. https://doi.org/10.1063/5.0261437

Kyeremeh, K. (2021). Overview of system development life cycle models.

Liu, C., et al. (2022). Comprehensive Graph Gradual Pruning for Sparse Training in Graph Neural Networks. arXiv preprint arXiv:2207.08629.

Lonka, T. (2023). Improving the initial rendering performance of React applications through contemporary rendering approaches. Perustieteiden korkeakoulu.

Mulyani, S. R. (2021). Metodologi Penelitian. Widina Bhakti Persada Bandung.

Ollila, R., Mäkitalo, N., & Mikkonen, T. (2022). Modern Web Frameworks: A Comparison of Rendering Performance. Journal of Web Engineering, 21(3), 789-813. https://doi.org/10.13052/jwe1540-9589.21311

Pasnitsenko, M. (2024). Analyzing Virtual DOM Performance in Front-End Frameworks. Наука і техніка сьогодні. https://doi.org/10.52058/2786-6025-2024-8(36)-840-858

Patil, P. (2025). *Optimizing low latency public cloud systems: Strategies for network, compute and storage efficiency.* World Journal of Advanced Research and Reviews, 26(1), 4003–4021. https://doi.org/10.30574/wjarr.2025.26.1.1538

Rafeli, A. I. (2022). *Pengujian celah keamanan menggunakan metode OWASP Web Security Testing Guide (WSTG) pada website XYZ.* UPN Veteran Jakarta. http://repository.upnvj.ac.id/id/eprint/19831

Refine. (2024). *React virtual DOM.* https://refine.dev/blog/react-virtual-dom/#introduction Schork, S. (2018). The holistic prototype and process development.

Rosario, V. J. (2024, December 2). Say Goodbye to Slow Renders: Optimizing React Apps with react-scan. DEV Community.

Schrepp, M., Kollmorgen, J., & Thomaschewski, J. (2023). A comparison of SUS, UMUX-LITE, and UEQ-S. The Journal of User Experience, 18(2), 86–104.

Sheed, I. (2025). Performance benchmarking techniques for React applications. ResearchGate. https://www.researchgate.net/publication/388743073_Performance_Benchmarking_Tech niques_for_React_Applications

Shevchuk, I., Filippova, L., & Krasnova, A. (2023). Virtual Pedagogy: Scenarios for Future Learning with VR and AR Technologies.

Shopify. (2024). Website load time statistics. https://www.shopify.com/id/blog/website-load-time-statistics

Sidorov, D. (2024). Analyzing virtual DOM performance in front-end frameworks. Наука і техніка сьогодні. https://doi.org/10.52058/2786-6025-2024-8(36)-840-858

Sihombing, D. J. C. (2024). Exploring prototype methodology in land information system. InfoSains Journal.

Sitompul, P. S., Sari, M. M., Lumban Gaol, C. M. B., & Harahap, L. M. (2025). Transformasi digital UMKM Indonesia: Tantangan dan strategi adaptasi di era ekonomi digital. Jurnal Manajemen Bisnis Digital Terkini, 2(2).

Sukardjoh, K. H. W., & Zahra, A. (2023). Website optimization and analysis on XYZ website using Web Core Vital rules. Indonesian Journal of Computer Science, 12(5).

Tuff Growth. (2024). Derek's author profile. https://tuffgrowth.com/author/derek/

Vepsäläinen, J., Hellas, A., & Vuorimaa, P. (2024). Overview of Web Application Performance Optimization Techniques.

Walton, P. (2020). *Web vitals.* web.dev. https://web.dev/articles/vitals

Wulandari, D. (2021). *Prototyping model in information system development.* Jurnal Pilar. Zebila, L., & Megnani, S. (2025). *Search Engine Marketing Approaches in University Libraries.*

Zapała, T. (2025). 8 proven methods for excellent React performance. Tymek Zapała Blog..

Zaicevas, T. (2021). Automating the Creation of React Component Tests [Bachelor's thesis, Vilnius University.