

DAFTAR PUSTAKA

- [1] K. Wati and R. Wa Ode, “Transformasi Digital Dalam Manajemen Bisnis Tantangan Dan Peluang Di Era Industri 4.0,” *JURNAL EKONOMI DAN BISNIS STIE Bisnis Internasional Indonesia (BII) Bekasi*, vol. V, no. 1, pp. 206–213, Jan. 2025, [Online]. Available: <https://ejurnal.stiebii.ac.id/index.php/ekonomibisnis>
- [2] Nur Afiah Nabila and Muhammad Irwan Padli Nasution, “Pengaruh Sistem Informasi Terintegrasi Terhadap Komunikasi Perusahaan,” *JURNAL RUMPUN MANAJEMEN DAN EKONOMI*, vol. 2, no. 1, pp. 60–67, Dec. 2024, doi: 10.61722/jrme.v2i1.3262.
- [3] J. Devgan Oktawijaya and S. Agustin, “Optimalisasi Sistem Digitalisasi Penerimaan Dan Pengeluaran Barang Dengan Laravel 11 Pada PT Swadaya Graha Gresik,” *Jurnal Restikom : Riset Teknik Informatika dan Komputer*, vol. 6, no. 3, pp. 489–500, 2024, [Online]. Available: <https://restikom.nusaputra.ac.id>
- [4] Kementerian Keuangan Republik Indonesia, “Peraturan Menteri Keuangan Nomor 34/PMK.04/2021 tentang Pemasukan dan Pengeluaran Barang Ke dan Dari Kawasan Yang Telah Ditetapkan Sebagai Kawasan Perdagangan Bebas dan Pelabuhan Bebas,” Kementerian Keuangan Republik Indonesia. Accessed: Jan. 10, 2026. [Online]. Available: <https://peraturan.bpk.go.id/Details/167381/pmk-no-34pmk042021>
- [5] C. G. Bradley and L. Corsini, “A literature review and analytical framework of the sustainability of reusable packaging,” *Sustain. Prod. Consum.*, vol. 37, pp. 126–141, May 2023, doi: 10.1016/j.spc.2023.02.009.
- [6] N. Thallapally, “Best Practices for Enhancing Front-End Performance in Modern Web Development,” *Journal of Computer Science and Technology Studies*, 2023, doi: 10.32996/jcsts.
- [7] Yasodhara Srinivas Aluri, “Frontend Performance Optimization of Large-Scale E-commerce Landing Pages: A Comprehensive Analysis,” *International Journal of Computational and Experimental Science and Engineering*, vol. 11, no. 4, Nov. 2025, doi: 10.22399/ijcesen.4372.
- [8] K. Taqiyassar, A. Putra Kharisma, and M. T. Ananta, “Analisis Perbandingan Performa Framework Website Next.js Dan React Router,” *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, vol. 10, no. 1, pp. 2548–964, 2026, [Online]. Available: <http://j-ptiik.ub.ac.id>
- [9] M. Juliardi, S. Wicaksana, and M. N. Fauzan, “Meningkatkan User Experience Aplikasi GIS Melalui Penerapan Quality Assurance,” *COMPETITIVE*, vol. 18, no. 2, 2023, [Online]. Available: <http://ejurnal.ulbi.ac.id/index.php/competitive|67>

- [10] M. Savenko and K. Babii, “Performance Optimization Strategies for Large-Scale Web Applications Using Next.js,” *IEEE Access*, vol. 13, pp. 217376–217386, 2025, doi: 10.1109/ACCESS.2025.3647563.
- [11] G. A. Prakoso, A. Putra Kharisma, and M. A. Rahman, “Perbandingan Efektifitas Teknik Code Splitting Dan Lazy Loading Dalam Meningkatkan Efisiensi Website Reactjs (Studi Kasus: Website Pemesanan Perkemahan Bedengan),” 2025. [Online]. Available: <http://j-ptiik.ub.ac.id>
- [12] A. A. Setiawan and E. Fauzi, “Analisis Komparatif Performa Implementasi Lazy Loading Dan Code Splitting Pada Framework React, Vue, Dan Angular Berdasarkan Skor Lighthouse,” *Journal of Information Technology and Computer Science (INTECOMS)*, vol. 8, no. 3, p. 2025, [Online]. Available: <https://2024.stateofjs.com/en-US/libraries/front-end->
- [13] R. P. A. Nugroho and A. Sugandi, “Meningkatkan Performa Frontend dengan Menggunakan Framework Next.js dalam Pengembangan Website,” *Journal of Cyber Health and Computer*, vol. 2, no. 2, pp. 14–19, Feb. 2025, doi: 10.64163/jochac.v2i2.31.
- [14] A. Rachman Hakim and A. Prihanto, “Analisis Performa Website Profil Sekolah Menggunakan Elementor Page Builder Dan LiteSpeed,” *Journal of Informatics and Computer Science*, vol. 05, 2023.
- [15] V. Jain, “Optimizing Web Performance With Lazy Loading And Code Splitting,” *International Journal of Core Engineering & Management*, no. 7, 2022.
- [16] Aditya Kappagantula, “Optimizing JavaScript application Performance: A comprehensive guide,” *International Journal of Science and Research Archive*, vol. 14, no. 1, pp. 1279–1303, Jan. 2025, doi: 10.30574/ijrsra.2025.14.1.0234.
- [17] G. K. Siawang, M. Sofyan, S. Thayf, and A. Muawwal, “Analisis Dan Peningkatan Performa Website Comfylearn Menggunakan Stress Tools,” [Online]. Available: <https://comfylearn.my.id/>.
- [18] A. Setiawan and Y. Yamasari, “Evaluasi Performa Website Sistem Informasi Kesejahteraan Sosial (SIKS-NG) Di Kelurahan Lembayan Kulon Kabupaten Magetan Dengan Google Lighthouse,” *Journal of Informatics and Computer Science*, vol. 07, 2025, [Online]. Available: <https://siks.kemensos.go.id>
- [19] A. Prambayun, M. Agus Triawan, and F. Humam, “Analisis Performa Website Karya Usaha Menggunakan Google Lighthouse Dan Gtmetrix,” *Jurnal Ilmu Komputer*, vol. 10, no. 1, pp. 2527–9653, 2025, doi: 10.47007/komp.v7i01.xxxxx.

- [20] I. M. Raible, C. Holweg, G. Reiner, and C. Teller, "Returnable packaging systems and store operations: Processes, costs, and benefits," *J. Ind. Ecol.*, vol. 28, no. 3, pp. 439–454, Jun. 2024, doi: 10.1111/jiec.13477.
- [21] F. Tornese, M. G. Gnani, B. K. Thorn, A. L. Carrano, and J. A. Pazour, "Management and logistics of returnable transport items: A review analysis on the pallet supply chain," Nov. 01, 2021, *MDPI*. doi: 10.3390/su132212747.
- [22] A. Nurpalah, D. D. Rhamdhan, H. Maulana, and A. A. Rafdhi, "Effect of UI/UX Designer on Front End," 2021.
- [23] "Web Performance | web.dev," <https://web.dev/Performance>.
- [24] ISO/IEC, "Systems and software engineering-Systems and software Quality Requirements and Evaluation (SQuaRE)-Product quality model - ISO/IEC 25010:2023," 2023.
- [25] S. Rafi, M. A. Akbar, and A. A. Khan, "Assessing Software Product Quality in DevOps: An ISO 25010:2023 Perspective," in *Proceedings of the 29th International Conference on Evaluation and Assessment in Software Engineering , EASE, 2025 edition, EASE Companion 2025*, Association for Computing Machinery, Inc, Dec. 2025, pp. 10–16. doi: 10.1145/3727967.3756847.
- [26] "DevExtreme jQuery Components," https://js.devexpress.com/jQuery/Documentation/Guide/jQuery_Components/DevExtreme_jQuery_Components/.
- [27] "jQuery," jquery.com. Accessed: May 10, 2026. [Online]. Available: <https://jquery.com/>
- [28] M. Varsha and P. Desai, "Jquery-An Interactive Web Designing Tool in Web Domain," 2016. [Online]. Available: <https://jquery.com/plugins>
- [29] T. Nicolini, A. Hora, and E. Figueiredo, "On the Usage of New JavaScript Features Through Transpilers: The Babel Case," *IEEE Softw.*, vol. 41, no. 1, pp. 105–112, Jan. 2024, doi: 10.1109/MS.2023.3243858.
- [30] Google Chrome Developers, "Introduction to Lighthouse." Accessed: Apr. 26, 2026. [Online]. Available: <https://developer.chrome.com/docs/lighthouse/overview>
- [31] Chrome Developers, "Lighthouse Performance scoring | Chrome for Developers," Google Chrome Developers. Accessed: Jun. 09, 2026. [Online]. Available: <https://developer.chrome.com/docs/lighthouse/Performance/Performance-scoring>

- [32] Chrome Developers, “Lighthouse Scoring Calculator,” Google Chrome Developers. Accessed: May 06, 2026. [Online]. Available: <https://googlechrome.github.io/lighthouse/scorecalc/>
- [33] Y. Kravchenko, O. Leshchenko, O. Trush, N. Dakhno, and P. Krasnopyorov, “Optimizing and Improvement a Web Application Using Open Source Tools,” in *Information Technology and Implementation (IT&I-2023)*, Nov. 2023, pp. 368–379.
- [34] T. Heričko, B. Šumak, and S. Brdnik, “Towards Representative Web Performance Measurements with Google Lighthouse,” in *Proceedings of the 2021 7th Student Computer Science Research Conference (StuCoSReC)*, University of Maribor, Sep. 2021, pp. 39–42. doi: 10.18690/978-961-286-516-0.9.
- [35] Chrome Developers, “*Performance Insights* | Chrome for Developers,” Google Chrome Developers. Accessed: Jun. 11, 2026. [Online]. Available: <https://developer.chrome.com/docs/Performance/Insights>
- [36] Chrome Developers, “First Contentful Paint | Lighthouse | Chrome for Developers,” Google Chrome Developers. Accessed: May 24, 2026. [Online]. Available: <https://developer.chrome.com/docs/lighthouse/Performance/first-contentful-paint>
- [37] Chrome Developers, “Largest Contentful Paint | Lighthouse | Chrome for Developers,” Google Chrome Developers. Accessed: May 02, 2026. [Online]. Available: <https://developer.chrome.com/docs/lighthouse/Performance/lighthouse-largest-contentful-paint>
- [38] Chrome Developers, “Total Blocking Time | Lighthouse | Chrome for Developers,” Google Chrome Developers. Accessed: May 09, 2026. [Online]. Available: <https://developer.chrome.com/docs/lighthouse/Performance/lighthouse-total-blocking-time>
- [39] “Total Blocking Time | Lighthouse | Chrome for Developers,” <https://developer.chrome.com/docs/lighthouse/Performance/lighthouse-total-blocking-time>.
- [40] Google Chrome Developers, “Lighthouse *Performance* scoring | Chrome for Developers.” Accessed: Apr. 25, 2026. [Online]. Available: <https://developer.chrome.com/docs/lighthouse/Performance/Performance-scoring>
- [41] “Cumulative Layout Shift (CLS) | web.dev,” https://web.dev/articles/cls?utm_source.

- [42] “DevExtreme jQuery/JS - Create a Custom Bundle,” https://js.devexpress.com/jQuery/Documentation/Guide/Common/Modularity/Create_a_Custom_Bundle/.
- [43] M. Ayyarrappan, “Performance Optimization Techniques for JavaScript-heavy Applications,” *Journal of Artificial Intelligence, Machine Learning and Data Science*, vol. 1, no. 1, pp. 2523–2525, Aug. 2022, doi: 10.51219/jaimld/mariappan-ayyarrappan/540.
- [44] Chrome Developers, “Minify CSS | Lighthouse | Chrome for Developers,” Google Chrome Developers. Accessed: May 10, 2026. [Online]. Available: <https://developer.chrome.com/docs/lighthouse/Performance/unminified-css>
- [45] M. Hague, A. W. Lin, and C. D. Hong, “CSS minification via constraint solving,” *ACM Transactions on Programming Languages and Systems*, vol. 41, no. 2, Jun. 2019, doi: 10.1145/3310337.
- [46] Chrome Developers, “Minify JavaScript | Lighthouse | Chrome for Developers,” Google Chrome Developers. Accessed: May 12, 2026. [Online]. Available: <https://developer.chrome.com/docs/lighthouse/Performance/unminified-javascript>
- [47] Microsoft, “Response Compression in ASP.NET Core.” Accessed: May 08, 2026. [Online]. Available: <https://learn.microsoft.com/en-us/aspnet/core/Performance/response-compression?view=aspnetcore-8.0>
- [48] J. Vepsäläinen, A. Hellas, and P. Vuorimaa, “Overview of Web Application Performance Optimization Techniques,” Dec. 2024, [Online]. Available: <http://arxiv.org/abs/2412.07892>
- [49] J. Alakuijala and Z. Szabadka, “Brotli Compressed Data Format,” Jul. 2016. doi: 10.17487/RFC7932.
- [50] J. Alakuijala, A. Farruggia, P. Ferragina, E. Kliuchnikov, and R. Obryk, “Brotli: A general-purpose data compressor,” 2017, [Online]. Available: <http://caniuse.com/#search=brotli>
- [51] P. Deutsch, “GZIP File format specification version 4.3,” May 1996. doi: 10.17487/rfc1952.
- [52] P. Deutsch, “DEFLATE Compressed Data Format Specification version 1.3,” May 1996. doi: 10.17487/rfc1951.
- [53] Chrome Developers, “Use efficient cache lifetimes | Performance Insights | Chrome for Developers,” Google Chrome Developers. Accessed: May 20, 2026. [Online]. Available: <https://developer.chrome.com/docs/Performance/Insights/cache>

- [54] “Cache-control header.” Accessed: May 16, 2026. [Online]. Available: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Reference/Headers/Cache-Control>
- [55] “Optimize Cumulative *Layout* Shift | web.dev.” Accessed: May 10, 2026. [Online]. Available: <https://web.dev/articles/optimize-cls>
- [56] “Layout shift culprits | *Performance Insights* | Chrome for Developers,” <https://developer.chrome.com/docs/Performance/Insights/cls-culprit>.
- [57] Chrome Developers, “Font display | *Performance Insights* | Chrome for Developers,” Google Chrome Developers. Accessed: May 20, 2026. [Online]. Available: <https://developer.chrome.com/docs/Performance/Insights/font-display>
- [58] “Best practices for fonts | web.dev.” Accessed: Jun. 16, 2026. [Online]. Available: <https://web.dev/articles/font-best-practices>
- [59] Chrome Developers, “Improve image delivery | *Performance Insights* | Chrome for Developers.” Accessed: Jun. 13, 2026. [Online]. Available: <https://developer.chrome.com/docs/Performance/Insights/image-delivery>
- [60] B. Dornauer and M. Felderer, “Web Image Formats: Assessment of Their Real-World-Usage and *Performance* across Popular Web Browsers,” *ArXiv*, Oct. 2023, [Online]. Available: <http://arxiv.org/abs/2310.00788>
- [61] “Avoid non-composited *animations* | Lighthouse | Chrome for Developers,” <https://developer.chrome.com/docs/lighthouse/Performance/non-composited-animations>.
- [62] Z. M. Alshamaa and N. N. Saleem, “Black Box Software Testing Techniques: a Literature Review,” *Passer Journal of Basic and Applied Sciences*, vol. 7, no. 2, pp. 1001–1011, Dec. 2025, doi: 10.24271/psr.2025.508216.1963.
- [63] A. Maspupah, “Literature Review: Advantages And Disadvantages Of Black Box And White Box Testing Methods,” *Jurnal Techno Nusa Mandiri*, vol. 21, no. 2, pp. 151–162, Sep. 2024, doi: 10.33480/techno.v21i2.5776.
- [64] E. D. Singh, H. Jit, and S. Sidhu, “A Scrutiny Study Of Various Unified Modeling Language (UML) Diagrams, Software Metrics Tool And Program Slicing Technique,” *J. Emerg. Technol. Innov. Res.*, vol. 5, 2018, [Online]. Available: www.jetir.org
- [65] O. Nĭkiforova, K. Babris, and A. Guliyeva, “Definition of a Set of Use Case Patterns for Application Systems: A Prototype-Supported Development Approach,” *Applied Computer Systems*, vol. 29, no. 1, pp. 59–67, Jun. 2024, doi: 10.2478/acss-2024-0008.

- [66] “Render-blocking requests | *Performance Insights* | Chrome for Developers,”
<https://developer.chrome.com/docs/Performance/Insights/render-blocking>.
- [67] “Static *Files* in ASP.NET Core,” Microsoft AS.NET Core. Accessed: May 05, 2026. [Online]. Available: <https://learn.microsoft.com/en-us/aspnet/core/fundamentals/static-Files?view=aspnetcore-8.0>
- [68] “Serve static assets with an efficient cache policy | Lighthouse | Chrome for Developers,”
<https://developer.chrome.com/docs/lighthouse/Performance/uses-long-cache-ttl>.
- [69] DevExpress Inc., “DevExtreme jQuery Components.” Accessed: Jan. 22, 2026. [Online]. Available: DevExtreme jQuery Components
- [70] “Font display | *Performance Insights* | Chrome for Developers,”
<https://developer.chrome.com/docs/Performance/Insights/font-display>.