

## DAFTAR PUSTAKA

- [1] “Asosiasi Penyelenggara Jasa Internet Indonesia.” Accessed: Sep. 07, 2025. [Online]. Available: [https://apjii.or.id/berita/d/apjii-jumlah-pengguna-internet-indonesia-tembus-221-juta-orang?utm\\_source=chatgpt.com](https://apjii.or.id/berita/d/apjii-jumlah-pengguna-internet-indonesia-tembus-221-juta-orang?utm_source=chatgpt.com)
- [2] R. F. T. Hidayat and M. Ikaningtyas, “Increasing the Existence of PT Telkom Indonesia in the Digital Transformation of Vocational Education in the Digitalization Era,” *Ijembis*, vol. 3, no. 3, pp. 552–557, 2023, doi: 10.59889/ijembis.v3i3.170.
- [3] N. Aisah and I. G. Suwartane, “Integrasi Chatbot Dalam Pengembangan Aplikasi Sistem Pembelajaran Bahasa Indonesia Berbasis Web Untuk Meningkatkan Motivasi Belajar Siswa (Studi Kasus Pada Siswa Kelas VII SMPN 280 Jakarta),” *Tekinfor*, vol. 24, no. 2, pp. 92–102, 2023.
- [4] N. Nurhayati, M. Suliyem, I. Hanafi, and T. T. D. Susanto, “Integrasi AI dalam collaborative learning untuk meningkatkan efektivitas pembelajaran,” *Acad. Educ. J.*, vol. 15, no. 1, pp. 1063–1071, 2024, doi: 10.47200/aoej.v15i1.2372.
- [5] I. D. Hidayati and A. Aslam, “Efektivitas Media Pembelajaran Aplikasi Quizizz Secara Daring Terhadap Perkembangan Kognitif Siswa,” *J. Pedagog. dan Pembelajaran*, vol. 4, no. 2, p. 251, 2021, doi: 10.23887/jp2.v4i2.37038.
- [6] T. Hartatik, D. Hidajat, and A. P. Exacta, “Analisis Keefektifan Google Classroom Dalam Pembelajaran Daring,” *Absis Math. Educ. J.*, vol. 3, no. 1, pp. 40–47, 2021, doi: 10.32585/absis.v3i1.1376.
- [7] R. T. J. Maruddani and S. Sugito, “Kolaborasi Guru dan Orang Tua dalam Pembelajaran Full Day School pada Masa Pandemi Covid-19,” *J. Obs. J. Pendidik. Anak Usia Dini*, vol. 6, no. 4, pp. 3771–3781, 2022, doi: 10.31004/obsesi.v6i4.1731.
- [8] H. I. Syarof and I. Rasal, “Aplikasi Chatbot sebagai Layanan Informasi

- Virtual pada Website Infinite Learning,” *Edumatic J. Pendidik. Inform.*, vol. 8, no. 1, pp. 56–64, 2024, doi: 10.29408/edumatic.v8i1.25215.
- [9] F. X. R. Baskara, “Chatbots and Flipped Learning : Enhancing Student Engagement and Learning Outcomes through Personalised Support and Collaboration,” vol. 4, no. 2, pp. 223–238, 2023.
- [10] K. A. Bakon, N. Beleid, and Z. Zakaria, “Parent-Teacher Interaction System : Development of Parent- Teacher Communication and Collaboration System,” vol. 7, no. 4, pp. 963–972, 2024.
- [11] “The Design and Implementation of an Educational Chatbot with Personalized Adaptive Learning Features for Project,” 2024.
- [12] G. Sedrakyan, S. Borsci, M. Machado, and P. Rogetzer, “Design Implications for Integrating AI Chatbot Technology with Learning Management Systems : A Study-based Analysis on Perceived Benefits and Challenges in Higher Education,” no. Llm, pp. 1–8, 2023, doi: 10.1145/3702386.3702405.
- [13] Z. Zhang, Y. Wang, B. Yao, T. Wu, and T. J. Li, “StoryBuddy : A Human-AI Collaborative Chatbot for Parent-Child Interactive Storytelling with Flexible Parental Involvement,” 2022, doi: 10.1145/3491102.3517479.
- [14] N. S. Fitriyani, M. R. Apriansyah, and R. N. Antika, “Pembelajaran Kolaboratif Berbasis Online,” *Inspir. J. Teknol. Inf. Dan Komun.*, vol. 10, no. 1, 2020, doi: 10.35585/inspir.v10i1.2564.
- [15] A. Faisal, A. P. Dewi, I. Syafitri, M. Z. Bahri, R. Priyotomo, and S. S. Nurfadlia, “Collaborative Learning Upaya Pencegahan Global Warming Di Paud Cahaya Kasih Ibu Kota Tangerang Selatan,” *Penta*, vol. 2, no. 1, p. 83, 2024, doi: 10.24853/penta.2.1.83-90.
- [16] Y. L. Pattinama, F. Ferdiansyah, I. Susanti, and P. Painem, “Implementasi Rest API Web Service Dengan Otentifikasi JSON Web Token Untuk Aplikasi Properti,” *Inform. J. Ilmu Komput.*, vol. 19, no. 1, pp. 81–89,

- 2023, doi: 10.52958/iftk.v19i1.5724.
- [17] “Android UI Architecture Migration to MVVM | Dashlane.” Accessed: Sep. 26, 2025. [Online]. Available: <https://www.dashlane.com/blog/android-ui-architecture-mvvm>
- [18] M. Husain and A. H. Muslim, “Kompetensi Profesionalisme Guru Dalam Penerapan Pembelajaran Tematik Secara Online Di Sekolah Dasar Negeri Badakarya,” *J. Ris. Dan Inov. Pembelajaran*, vol. 1, no. 2, pp. 174–182, 2021, doi: 10.51574/jrip.v1i2.76.
- [19] S. Siswidiyanto, A. Munif, D. Wijayanti, and E. Haryadi, “Sistem Informasi Penyewaan Rumah Kontrakan Berbasis Web Dengan Menggunakan Metode Prototype,” *J. Interkom J. Publ. Ilm. Bid. Teknol. Inf. dan Komun.*, vol. 15, no. 1, pp. 18–25, 2021, doi: 10.35969/interkom.v15i1.84.
- [20] A. Kurniawan, M. Chabibi, and R. S. Dewi, “Pengembangan Sistem Informasi Pelayanan Desa Berbasis Web Dengan Metode Prototyping Pada Desa Leran,” *JURIKOM (Jurnal Ris. Komputer)*, vol. 7, no. 1, p. 114, 2020, doi: 10.30865/jurikom.v7i1.1863.
- [21] E. W. Fridayanthie, H. Haryanto, and T. Tsabitah, “Penerapan Metode Prototype Pada Perancangan Sistem Informasi Penggajian Karyawan (Persis Gawan) Berbasis Web,” *Paradig. - J. Komput. dan Inform.*, vol. 23, no. 2, pp. 151–157, 2021, doi: 10.31294/p.v23i2.10998.
- [22] F. K. Putra, “Penerapan Metode Prototyping Dalam Rancangan Sistem Informasi Absensi Berbasis Website,” *J. Inf. Syst. Res.*, vol. 3, no. 4, pp. 431–436, 2022, doi: 10.47065/josh.v3i4.1835.
- [23] “METODE PROTOTYPE : Kelebihan, Kekurangan & Tahapan Model | Salamadian.” Accessed: Sep. 24, 2025. [Online]. Available: <https://salamadian.com/metode-prototype-prototipe-adalah/>
- [24] D. Ardiyansah, O. Pahlevi, and T. Santoso, “Implementasi Metode

- Prototyping Pada Sistem Informasi Pengadaan Barang Cetakan Berbasis Web,” *Hexag. J. Tek. dan Sains*, vol. 2, no. 2, pp. 17–22, 2021, doi: 10.36761/hexagon.v2i2.1083.
- [25] “Go Backend Clean Architecture.” Accessed: Sep. 24, 2025. [Online]. Available: <https://outcomeschool.com/blog/go-backend-clean-architecture>
- [26] “RESTful API: Pengertian, Manfaat, Cara Kerja dan Contohnya.” Accessed: Sep. 24, 2025. [Online]. Available: <https://course-net.com/blog/restful-api-adalah/>
- [27] N. R. Pertiwi, H. N. Sabila, and A. Sintawati, “Implementasi Model Pembelajaran Problem Based Learning Terhadap Keterampilan Kolaboratif Dan Komunikasi Sains Pada Materi Sistem Ekskresi Di Kelas VIII B SMP Negeri 1 Ciamis,” *Bioed J. Pendidik. Biol.*, vol. 11, no. 1, p. 47, 2023, doi: 10.25157/jpb.v11i1.10168.
- [28] K. Kadarsih and S. Andrianto, “JTIM : Jurnal Teknik Informatika Mahakarya,” *JTIM J. Tek. Inform. Mahakarya*, vol. 03, no. 2, pp. 37–44, 2022.
- [29] U. Dirgantara and M. Suryadarma, “Perancangan Sistem Informasi Penyewaan Alat Kesehatan Pt Xyz Berbasis Web,” *J. Sist. Inf. Univ. Suryadarma*, vol. 10, no. 2, pp. 79–89, 2014, doi: 10.35968/jsi.v10i2.1078.
- [30] Rasiban, A. Septiansyah, S. Hasanah, veren nita Permatasari, and A. Yulawati, “Sistem Informasi Otomatisasi Pelaporan Data Penjualan Toko Buku Nazwa Yang Masuk Dan Yang Keluar,” *Informatika*, vol. 8, no. 1, pp. 283–284, 2024.
- [31] S. M. Pulungan, R. Febrianti, T. Lestari, N. Gurning, and N. Fitriana, “Analisis Teknik Entity-Relationship Diagram Dalam Perancangan Database,” *J. Ekon. Manaj. dan Bisnis*, vol. 1, no. 2, pp. 98–102, 2023, doi: 10.47233/jemb.v1i2.533.
- [32] “Why you should learn Kotlin in 2025,” Dev.to.

- [33] “Kotlin programming features 2025,” SRFDeveloper.
- [34] Techzine, “Kotlin in 2025 is flexible, more secure, and suitable for on-prem AI,” *Techzine*, 2025.
- [35] digitalskola, “Golang Adalah: Definisi, Keunggulan, dan Contoh Terlengkap,” Digital Skola.
- [36] PostgreSQLTutorial.com, “What is PostgreSQL,” PostgreSQLTutorial.com.
- [37] S. Raschka, J. Patterson, and C. Nolet, “Machine learning in python: Main developments and technology trends in data science, machine learning, and artificial intelligence,” *Inf.*, vol. 11, no. 4, 2020, doi: 10.3390/info11040193.
- [38] T. B. Brown, B. Mann, N. Ryder, M. Subbiah, and J. Kaplan, “Language models are few-shot learners,” *Proc. NeurIPS 2020*, 2020, [Online]. Available: <https://arxiv.org/abs/2005.14165>
- [39] A. Vaswani *et al.*, “Attention is all you need,” *Adv. Neural Inf. Process. Syst. (NeurIPS 2017)*, 2017, [Online]. Available: <https://arxiv.org/abs/1706.03762>
- [40] M. N. M. Al-Faruq, S. Nur’aini, and M. H. Aufan, “Perancangan Ui/Ux Semarang Virtual Tourism Dengan Figma,” *Walisono J. Inf. Technol.*, vol. 4, no. 1, pp. 43–52, 2022, doi: 10.21580/wjit.2022.4.1.12079.
- [41] M. F. Anas and M. S. Hidajat, “Perancangan Sistem Informasi Pencarian dan Pemesanan Kamar Kos Berbasis Web di Wilayah Depok,” *Jatekom (Jurnal Apl. Teknol. dan Komputasi)*, vol. 1, no. 1, pp. 22–32, 2025.
- [42] A.-N. J. A. M. Al-Prasad, W. H. N. Putra, and D. W. Brata, “Perbandingan Pengujian Performance Framework Laravel Dan Lumen Pada Arsitektur Berbasis Service Sobot-Ps Menggunakan Jmeter Dan Postman (Studi Kasus: Kups Kalimantan Utara),” *J. Sist. Informasi, Teknol. Informasi, dan*

*Edukasi Sist. Inf.*, vol. 5, no. 2, pp. 120–138, 2024, doi:  
10.25126/justsi.v5i2.430.

- [43] H. Alnuhait, W. Alzyadat, A. Althunibat, H. Kahtan, B. Zaqaibeh, and H. A. Al-Khawaja, “Web application performance assessment: A study of responsiveness, throughput, and scalability,” *Int. J. Adv. Appl. Sci.*, vol. 11, no. 9, pp. 214–226, 2025, [Online]. Available: [https://www.researchgate.net/publication/385240164\\_Web\\_application\\_performance\\_assessment\\_A\\_study\\_of\\_responsiveness\\_throughput\\_and\\_scalability](https://www.researchgate.net/publication/385240164_Web_application_performance_assessment_A_study_of_responsiveness_throughput_and_scalability)
- [44] M. H. Moghadam *et al.*, “Performance testing using a smart reinforcement learning-driven test agent,” *arXiv Prepr. arXiv2104.12893*, 2021, [Online]. Available: <https://arxiv.org/abs/2104.12893>
- [45] “Prototyping Model - Software Engineering - GeeksforGeeks.” Accessed: Aug. 07, 2025. [Online]. Available: <https://www.geeksforgeeks.org/software-engineering/software-engineering-prototyping-model/>
- [46] Gartner, “Load Testing: Best Practices,” *Gart. Res.*, 2019, [Online]. Available: <https://www.gartner.com/en/documents/3983889-load-testing-best-practices>
- [47] KeyCDN, “Why Response Time Matters: The Impact of Latency on User Experience,” 2020. [Online]. Available: <https://www.keycdn.com/blog/why-response-time-matters>
- [48] A. Systems, “The Load Testing Handbook,” 2018. [Online]. Available: <https://www.apicasystem.com/blog/load-testing-handbook/>