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DAFTAR PUSTAKA

[1] E. D. Edison, N. E. Putri, A. Juwita Z, and M. Ega. Darmawan, "Development of a Web-Based Point of Sales System as a Financial Digitalization Solution for MSMEs," *AJARCDE Asian J. Appl. Res. Community Dev. Empower.*, vol. 10, no. 1, pp. 78–83, Jan. 2026, doi: 10.29165/ajarcde.v10i1.890.

[2] R. P. Rahmat, D. A. D. Tamara, and E. H. Juniwati, "Aplikasi Pencatatan Transaksi Keuangan dan Penyajian Laporan Keuangan Berbasis Web (Studi Kasus Pada CV Soetisna Putra)," *Indones. J. Econ. Manag.*, vol. 1, no. 2, pp. 430–443, Mar. 2021, doi: 10.35313/ijem.v1i2.2510.

[3] I. Ramadhani, R. Nindyasari, and A. Catur Murti, "Design and Development of a Web-Based Point of Sale System for Small-Scale Retail Management," *Bit-Tech*, vol. 8, no. 1, pp. 181–189, Aug. 2025, doi: 10.32877/bt.v8i1.2487.

[4] Jeffersson Divina, Adrian Olan, Nathaniel Christopher Perez, Dr. Marygin Sarmiento, and Roberto Acepcion, "Data-Driven Point-of-Sale and Inventory System or Pastil Sa Tabi: Integrating Sales Forecasting Algorithms and Predictive Analytics," *Int. J. Res. Innov. Appl. Sci.*, doi: 10.51584/IJRIAS.2025.1010000066.

[5] G. Wilson, O. Johnson, and W. Brown, "Exploring the Impact of Digital Transformation on Marketing Strategies in the Retail Sector," Jul. 30, 2024, *Business, Economics and Management*. doi: 10.20944/preprints202407.2371.v1.

[6] S. Ojuri, T. A. Han, R. Chiong, and A. Di Stefano, "Optimizing text-to-SQL conversion techniques through the integration of intelligent agents and large language models," *Inf. Process. Manag.*, vol. 62, no. 5, p. 104136, Sep. 2025, doi: 10.1016/j.ipm.2025.104136.

[7] X. Zhu, Q. Li, L. Cui, and Y. Liu, "Large Language Model Enhanced Text-to-SQL Generation: A Survey," Oct. 08, 2024, *arXiv*: arXiv:2410.06011. doi: 10.48550/arXiv.2410.06011.

[8] L. Magdalena, "Implementation Chatbot for SMEs Using Artificial Intelligence Markup Language to Improve Customer Integration and Business Performance," *Appl. Inf. Syst. Manag. AISM*, vol. 6, no. 2, pp. 69–76, Sep. 2023, doi: 10.15408/aism.v6i2.31847.

[9] C. Dash, K. K. Bhatti, U. Das, S. P. Santhoshkumar, A. Balavivekanandhan, and B. K. Bala, "Developing a Chatbot System Utilizing Natural Language Processing for Improved Customer Service and Marketing Automation," in *2024 4th International Conference on Innovative Sustainable Computational Technologies (CISCT)*, Dehradun, India: IEEE, Dec. 2024, pp. 1–6. doi: 10.1109/CISCT62494.2024.11134178.

[10] R. Gelar Guntara, "Aplikasi Chatbot Konsultan Bisnis untuk UMKM Berbasis Dialogflow pada Platform Android," *Indones. J. Digit. Bus.*, vol. 2, no. 1, pp. 9–16, Jul. 2022, doi: 10.17509/ijdb.v2i1.49405.

[11] Deepali Narwade, Aditya Kanhere, Sahil Mulla, Atish Sanap, and Abhay Patil, "LLM for Retail Business (Optimizing Clothing Sales with AI)," *Int. J. Sci. Res. Sci. Eng. Technol.*, vol. 11, no. 5, pp. 176–179, Oct. 2024, doi: 10.32628/IJSRSET24115108.

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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

[12] L. Shi, Z. Tang, N. Zhang, X. Zhang, and Z. Yang, "A Survey on Employing Large Language Models for Text-to-SQL Tasks," *ACM Comput. Surv.*, vol. 58, no. 2, pp. 1–37, Jan. 2026, doi: 10.1145/3737873.

[13] A. Mohammadjafari, A. S. Maida, and R. Gottumukkala, "From Natural Language to SQL: Review of LLM-based Text-to-SQL Systems," Feb. 04, 2025, *arXiv*: arXiv:2410.01066. doi: 10.48550/arXiv.2410.01066.

[14] H. Asrani, S. Vishwakarma, D. Asrani, and Dr. K. Asrani, "POINT OF SALE SYSTEMS," in *International Journal of Innovative Research in Computer Science and Technology (IJIRCST)*, Innovative Research Publication, Mar. 2024, pp. 358–363. doi: 10.55524/CSISTW.2024.12.1.63.

[15] D. E. T. Salim, D. David, G. Syarifuddin, S. Kosasi, and I. D. A. E. Yuliani, "Implementation Of Point Of Sales Using Laravel Framework on Matahari Motor," *CCIT J.*, vol. 16, no. 1, pp. 111–123, Jan. 2023, doi: 10.33050/ccit.v16i1.2557.

[16] D. Gao *et al.*, "Text-to-SQL Empowered by Large Language Models: A Benchmark Evaluation," Nov. 20, 2023, *arXiv*: arXiv:2308.15363. doi: 10.48550/arXiv.2308.15363.

[17] M. Pourreza and D. Rafiei, "DIN-SQL: Decomposed In-Context Learning of Text-to-SQL with Self-Correction," Nov. 02, 2023, *arXiv*: arXiv:2304.11015. doi: 10.48550/arXiv.2304.11015.

[18] L. Sheng, S.-S. Xu, and W. Xie, "BASE-SQL: A powerful open source Text-To-SQL baseline approach," Feb. 15, 2025, *arXiv*: arXiv:2502.10739. doi: 10.48550/arXiv.2502.10739.

[19] X. Dong *et al.*, "C3: Zero-shot Text-to-SQL with ChatGPT," Jul. 14, 2023, *arXiv*: arXiv:2307.07306. doi: 10.48550/arXiv.2307.07306.

[20] V. N. S. Gandha, "CONVERSATIONAL AI FOR NATURAL LANGUAGE DATA ANALYTICS," *Int. J. Res. Comput. Appl. Inf. Technol.*, vol. 8, no. 1, pp. 1538–1550, Feb. 2025, doi: 10.34218/IJRCAIT_08_01_113.

[21] Y. Durachman, Eva Khudzaeva, and N. Aulia, "Large Language Models for Intelligent Decision Support in Inventory and Supply Chain Operations: A Systematic Literature Review," *J. Inf. Syst. Inform.*, vol. 8, no. 2, pp. 1984–2016, Apr. 2026, doi: 10.63158/journalisi.v8i2.1540.

[22] F. A. M. Andy and S. Widiono, "Inovasi Teknologi dalam Manajemen Penjualan: Aplikasi Point of Sales Berbasis Web untuk UMKM," *Infomatek*, vol. 26, no. 2, pp. 161–174, Nov. 2024, doi: 10.23969/infomatek.v26i2.19007.

[23] B. Septiadi and I. Agus, "Transformasi Bisnis di Era Digital: Analisis Sistematis Terhadap E-Bisnis di Indonesia Pada Konteks UMKM," *J. Digit. Lit. Volunt.*, vol. 2, no. 1, pp. 38–43, Jan. 2024, doi: 10.57119/litdig.v2i1.80.

[24] S. R. Pratamansyah, "Transformasi Digital dan Pertumbuhan UMKM: Analisis Dampak Teknologi pada Kinerja Usaha Kecil dan Menengah di Indonesia," *J. Akunt. Manaj. Dan Perenc. Kebijak.*, vol. 2, no. 2, p. 17, Oct. 2024, doi: 10.47134/jampk.v2i2.475.

[25] S. U. Singh and A. S. Namin, "A survey on chatbots and large language models: Testing and evaluation techniques," *Nat. Lang. Process. J.*, vol. 10, p. 100128, Mar. 2025, doi: 10.1016/j.nlp.2025.100128.

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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

[26] C. Sengul, R. Neykova, and G. Destefanis, "Software engineering education in the era of conversational AI: current trends and future directions," *Front. Artif. Intell.*, vol. 7, p. 1436350, Aug. 2024, doi: 10.3389/frai.2024.1436350.
[27] X. Hou *et al.*, "Large Language Models for Software Engineering: A Systematic Literature Review," *ACM Trans. Softw. Eng. Methodol.*, vol. 33, no. 8, pp. 1–79, Nov. 2024, doi: 10.1145/3695988.
[28] A. Fan *et al.*, "Large Language Models for Software Engineering: Survey and Open Problems," in *2023 IEEE/ACM International Conference on Software Engineering: Future of Software Engineering (ICSE-FoSE)*, Melbourne, Australia: IEEE, May 2023, pp. 31–53. doi: 10.1109/ICSE-FoSE59343.2023.00008.
[29] A. Yang *et al.*, "Qwen3 Technical Report," May 14, 2025, *arXiv*: arXiv:2505.09388. doi: 10.48550/arXiv.2505.09388.
[30] B. Qin *et al.*, "A Survey on Text-to-SQL Parsing: Concepts, Methods, and Future Directions".
[31] S. Gulyamov *et al.*, "Prompt Injection Attacks in Large Language Models and AI Agent Systems: A Comprehensive Review of Vulnerabilities, Attack Vectors, and Defense Mechanisms," *Information*, vol. 17, no. 1, p. 54, Jan. 2026, doi: 10.3390/info17010054.
[32] R. Pedro, D. Castro, P. Carreira, and N. Santos, "From Prompt Injections to SQL Injection Attacks: How Protected is Your LLM-Integrated Web Application?," Jan. 27, 2025, *arXiv*: arXiv:2308.01990. doi: 10.48550/arXiv.2308.01990.
[33] S. Genne, "Optimizing Enterprise Web Performance Through Server-Side Rendering: A Next.Js Framework Implementation," *Eur. Mod. Stud. J.*, vol. 9, no. 3, pp. 255–264, Jul. 2025, doi: 10.59573/emsj.9(3).2025.21.
[34] S. D. Meglio, L. L. L. Starace, and S. D. Martino, "Starting a New REST API project? A Performance Benchmark of Frameworks and Execution Environments".
[35] E. F. Codd, "A relational model of data for large shared data banks," *Commun. ACM*, vol. 13, no. 6, pp. 377–387, Jun. 1970, doi: 10.1145/362384.362685.
[36] H. V. ReddyKavuluri, "PostgreSQL vs. Oracle: A Comparative Study of Performance, Scalability, and Enterprise Adoption," 2024.
[37] R. I. Putra *et al.*, "analisis dan Perancangan Sistem berorientasi objek".
[38] R. A. Nugraha and M. Hardiyanti, "Rancang Bangun Sistem Tryout UTBK SNBT Berbasis Web dengan Fitur Rekomendasi Jurusan (Studi Kasus: Integral Education)".
[39] M. Koo and S.-W. Yang, "Likert-Type Scale," *Encyclopedia*, vol. 5, no. 1, p. 18, Feb. 2025, doi: 10.3390/encyclopedia5010018.
[40] Suchetha Vijayakumar, Krishna Prasad K, and R. Holla M., "Assessing the Effectiveness of MoSCoW Prioritization in Software Development: A Holistic Analysis across Methodologies," *EAI Endorsed Trans. Internet Things*, vol. 10, Oct. 2024, doi: 10.4108/eetiot.6515.

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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

[41] T. D. Capote, "A COMPARATIVE STUDY OF BLACK BOX AND WHITE BOX TESTING TECHNIQUES IN MODERN SOFTWARE DEVELOPMENT".

[42] A. Maspupah, "LITERATURE REVIEW: ADVANTAGES AND DISADVANTAGES OF BLACK BOX AND WHITE BOX TESTING METHODS," *J. Techno Nusa Mandiri*, vol. 21, no. 2, pp. 151–162, Sep. 2024, doi: 10.33480/techno.v21i2.5776.

[43] H. K. N. Leung and P. W. L. Wong, "A Study of User Acceptance Tests," *Softw. Qual. J.*, vol. 6, pp. 137–149, 1997.

[44] T. Zhang, V. Kishore, F. Wu, K. Q. Weinberger, and Y. Artzi, "BERTSCORE: EVALUATING TEXT GENERATION WITH," 2020.

[45] J. Li *et al.*, "Can LLM Already Serve as A Database Interface? A BIg Bench for Large-Scale Database Grounded Text-to-SQLs," Nov. 15, 2023, *arXiv*: arXiv:2305.03111. doi: 10.48550/arXiv.2305.03111.

[46] T. Yu *et al.*, "Spider: A Large-Scale Human-Labeled Dataset for Complex and Cross-Domain Semantic Parsing and Text-to-SQL Task," in *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing*, Brussels, Belgium: Association for Computational Linguistics, 2018, pp. 3911–3921. doi: 10.18653/v1/D18-1425.

[47] W. Wulandari, N. Nofiyani, and H. Hasugian, "USER ACCEPTANCE TESTING (UAT) PADA ELECTRONIC DATA PREPROCESSING GUNA MENGETAHUI KUALITAS SISTEM," *J. Mhs. Ilmu Komput.*, vol. 4, no. 1, pp. 20–27, Mar. 2023, doi: 10.24127/ilmukomputer.v4i1.3383.

[48] P. Rita, C. Vong, and C. Correia, "How AI-driven chatbots shape customer satisfaction and loyalty to chatbot usage in digital service experience," *Comput. Hum. Behav. Rep.*, vol. 22, p. 101017, May 2026, doi: 10.1016/j.chbr.2026.101017.