

- [1] Asosiasi Penyelenggara Jasa Internet Indonesia, “Survei Penetrasi & Perilaku Internet 2024,” Jakarta, 2024.
- [2] R. Rosandya, “Langkah Menuju ‘100 Smart City,’” *komdigi.go.id*, 2020. <https://www.komdigi.go.id/berita/sorotan-media/detail/langkah-menuju-100-smart-city> (accessed Dec. 22, 2023).
- [3] R. Rachmawati, “Toward better city management through smart city implementation,” *Hum. Geogr.*, vol. 13, no. 2, pp. 209–218, 2019, doi: 10.5719/hgeo.2019.132.6.
- [4] B. Kurniawan, S. Supangkat, F. Lumban Gaol, and B. Ranti, “Framework for Developing Smart City Models in Indonesian Cities (Based On Garuda Smart City Framework),” *9th Int. Conf. ICT Smart Soc. Recover Together, Recover Stronger Smarter Smartization, Gov. Collab. ICISS 2022 - Proceeding*, pp. 1–5, 2022, doi: 10.1109/ICISS55894.2022.9915073.
- [5] Citiasia Inc., “SMART NATION: Mastering Nation’s Advancement from SMART READINESS to SMART CITY,” *Citiasia*, pp. 1–16, 2016, [Online]. Available: www.citiasiainc.id
- [6] I. D. C. Arifah, A. Safitri, H. Fazlurrahman, G. K. Chen, A. N. Masrom, and F. Kharisma, “Smart Economy Implementation in Supporting SMEs Growth: Case Study in Indonesia and Malaysia Smart Cities,” *2022 5th Int. Semin. Res. Inf. Technol. Intell. Syst. ISRITI 2022*, pp. 787–792, 2022, doi: 10.1109/ISRITI56927.2022.10053000.
- [7] H. Limanseto, “Pemerintah Dorong UMKM Naik Kelas, Tingkatkan Kontribusi terhadap Ekspor Indonesia,” *ekon.go.id*, 2025. <https://www.ekon.go.id/publikasi/detail/6152/pemerintah-dorong-umkm-naik-kelas-tingkatkan-kontribusi-terhadap-ekspor-indonesia> (accessed Apr. 30, 2025).
- [8] Y. Erlanitasari, A. Rahmanto, and M. Wijaya, “Digital economic literacy micro, small and medium enterprises (SMES) go online,” *Informasi*, vol. 49, no. 2, pp. 145–156, Jan. 2019, doi: 10.21831/informasi.v49i2.27827.
- [9] I. Gusmiarti, “27 Juta UMKM Telah Go Digital Hingga 2023,” *Goodstats*, 2024. <https://data.goodstats.id/statistic/27-juta-umkm-telah-go-digital-hingga-2023-gXpaM> (accessed Sep. 26, 2024).
- [10] J. Jones, “Komdigi Kejar Digitalisasi UMKM Tahun Depan,” *metronews.com*, 2024. <https://www.metrotvnews.com/read/b3JCraM2-komdigi-kejar-digitalisasi-umkm-tahun-depan> (accessed Apr. 30, 2025).
- [11] Mediana, “Biaya Admin Berjualan di Lokapasar Kembali Naik, UMKM Akan Terbebani,” *kompas.id*, Jakarta, Apr. 19, 2024. [Online]. Available: <https://www.kompas.id/baca/ekonomi/2024/04/19/biaya-admin-berjualan-di-lokapasar-kembali-naik-umkm-akan-terbebani>
- [12] Badan Pusat Statistik Kabupaten Pringsewu, “Jumlah Usaha Mikro Kecil dan Menengah (UMKM) menurut Kabupaten/Kota di Provinsi Lampung,” *Badan Pusat Statistik Kabupaten Pringsewu*, 2024. <https://pringsewukab.bps.go.id/id/statistics-table/2/MzQ1IzI%3D/jumlah-usaha-mikro-kecil-dan-menengah--umkm--menurut-kabupaten-kota-di-provinsi-lampung.html> (accessed Sep. 27, 2024).

- [13] H. T. Maulana and U. Rosyidah, "User Experience Model using Concise User-Centered Design in Small and Medium Enterprise E-Commerce," in *2022 International Seminar on Application for Technology of Information and Communication (iSemantic)*, IEEE, Sep. 2022, pp. 377–382. doi: 10.1109/iSemantic55962.2022.9920381.
- [14] Sujito, M. I. Akbar, Abdurrohman, B. A. Putra, A. I. Syah, and A. Baskoro, "Developing Marketplace as a Promotion Media in the middle of Covid-19 Pandemic for Lawang and Singosari sub-district SMEs Product," *7th Int. Conf. Electr. Electron. Inf. Eng. Technol. Breakthr. Gt. New Life, ICEEIE 2021*, pp. 1–5, 2021, doi: 10.1109/ICEEIE52663.2021.9616866.
- [15] Meyliana, E. Fernando, H. A. E. Widjaja, S. W. Santoso, Surjandy, and A. Raharto Condrobimo, "Development of Marketplace User Interface Design with Virtual Booth Based on Mobile for Ornamental Fish SMEs," *Proc. 2021 7th Int. HCI UX Conf. Indones. CHIuXiD 2021*, vol. 1, no. November, pp. 22–26, 2021, doi: 10.1109/CHIuXiD54398.2021.9650673.
- [16] A. Subiyakto, D. P. Utami, E. Nurmiati, D. Yuniarto, A. Sopandi, and F. M. Kaffah, "Adopting Five Planes Framework for Developing User Interface based on User Experience Aspects," *2023 11th Int. Conf. Cyber IT Serv. Manag. CITSM 2023*, pp. 1–6, 2023, doi: 10.1109/CITSM60085.2023.10455146.
- [17] R. F. Mulia, A. Agussalim, and R. Hadiwiyanti, "Desain UI/UX e-Marketplace UMKM Pastry & Bakery (Bakehouse) dengan Metode Lean UX," *JTIM J. Teknol. Inf. dan Multimed.*, vol. 7, no. 1, pp. 34–52, 2025.
- [18] D. Imameza, D. Junaedi, and M. Adrian, "User Experience Analysis and Design for MSME Websites in Madiun Regency with the Design Thinking Method," *2022 1st Int. Conf. Softw. Eng. Inf. Technol. ICoSEIT 2022*, pp. 168–173, 2022, doi: 10.1109/ICoSEIT55604.2022.10030017.
- [19] E. Z. Dewi, M. Fransisca, R. I. Handayani, and F. L. D. Cahyanti, "Analysis and Design of UI/UX Mobile Applications for Marketing of UMKM Products Using Design Thinking Method," *Sinkron*, vol. 7, no. 4, pp. 2329–2339, Oct. 2022, doi: 10.33395/sinkron.v7i4.11505.
- [20] F. Sukma, U. Ambri, D. Meidelfi, and Defni, "Design Thinking Method Application in UI/UX Design on the Sabiekah E-Commerce Website," *Int. J. Adv. Technol. Soc. Sci.*, vol. 2, no. 3, pp. 345–356, Mar. 2024, doi: 10.59890/ijatss.v2i3.1532.
- [21] A. Y. Husodo, N. A. B. F. Bimantoro, and B. Irmawati, "UI/UX Analysis of Integrated E-Commerce System with Smart Village Concept to Promote MSMEs (UMKM) and West Nusa Tenggara Tourism with Design Thinking Method," *Proc. First Mandalika Int. Multi-Conference Sci. Eng. 2022, MIMSE 2022 (Informatics Comput. Sci.)*, vol. 1, pp. 311–325, 2022, doi: 10.2991/978-94-6463-084-8.
- [22] D. T. Kurniawan, W. Nur Hidayat, A. Prasasti, and A. A. Nur Rakhmad, "Designing Smart Village Application for Ecotourism Marketplace with a Human Centered Approach," *4th Int. Conf. Vocat. Educ. Training, ICOVET 2020*, pp. 298–303, 2020, doi: 10.1109/ICOVET50258.2020.9230005.
- [23] G. L. Intal and T. Palaoag, "Redesigning the Swine Industry Supply Chain: A B2B e-Marketplace Platform," in *2023 International Conference on Software and System Engineering (ICoSSE)*, IEEE, Apr. 2023, pp. 57–62. doi: 10.1109/ICoSSE58936.2023.00018.

- [24] E. Poerbaningtyas, A. A. Kusumasari, A. Utami, and N. Rahman, “The Interface Design Of Web-Based Interactive Catalog In Bandungrejosari Ward Malang City,” *3rdInternational Conf. Inf. Technol. Secur.*, pp. 106–126, 2022.
- [25] W. N. Hidayat, R. R. Mariana, Y. A. L. Hermanto, and M. Yusuf, “UX Design of Digital Marketing Management System for Micro, Small, and Medium Enterprises to Increase Culinary Potential of Malang City,” *ICEEIE 2023 - Int. Conf. Electr. Electron. Inf. Eng.*, pp. 1–6, 2023, doi: 10.1109/ICEEIE59078.2023.10334829.
- [26] D. Amanda Putri, F. Annas, and E. Yunita, “Perancangan Platform E-Commerce untuk Peningkatan Penjualan Produk Kerajinan Tangan Menggunakan OpenCart pada UMKM Kec. Lubuk Tarok,” *JOVISHE J. Vision. Sharia Econ.*, vol. 3, no. 1, pp. 202–219, Jun. 2024, doi: 10.57255/jovishe.v3i1.506.
- [27] E. Setiawan, A. M. Indra, and Y. Efendy, “Transformasi Digital UMKM Kuliner Lokal Melalui Perancangan UI/UX Pempek Gending Sebagai Strategi Keunggulan Bersaing Global Berbasis Metode Design Thinking,” *Teknomatika*, vol. 14, no. 02 SE-Articles, Sep. 2024, doi: 10.61423/teknomatika.v14i02.691.
- [28] A. Apriadi Aldani, I. Maruf Nugroho, and I. Jaelani, “Perancangan User Interface dan User Experience E-Commerce Berbasis Mobile UMKM Di Zecko dengan Metode Human Centered Design,” *JATI (Jurnal Mhs. Tek. Inform.)*, vol. 8, no. 5, pp. 9992–9998, Sep. 2024, doi: 10.36040/jati.v8i5.10819.
- [29] S. Tan and A. Taeiagh, “Smart City Governance in Developing Countries: A Systematic Literature Review,” *Sustainability*, vol. 12, no. 3, p. 899, Jan. 2020, doi: 10.3390/su12030899.
- [30] Z. R. M. A. Kaiser, “Smart governance for smart cities and nations,” *J. Econ. Technol.*, vol. 2, no. July, pp. 216–234, 2024, doi: 10.1016/j.ject.2024.07.003.
- [31] Aan Jaelani, Layaman, Retno Ariyanti, Muhammad Lutfhi HS, and Dila Wasi’atul Barkah, “Smart City: The Implementation Through Smart and Innovative Economy Programs by Empowering MSMEs in Cirebon City,” *Proceeding Int. Conf. Islam. Econ. Islam. Banking, Zakah Waqf*, vol. 1, no. 2017, pp. 551–566, Sep. 2023, doi: 10.24090/ieibzawa.v1i.780.
- [32] Y. Popova and S. Popovs, “Impact of Smart Economy on Smart Areas and Mediation Effect of National Economy,” *Sustainability*, vol. 14, no. 5, p. 2789, Feb. 2022, doi: 10.3390/su14052789.
- [33] A. A. Zainuddin *et al.*, “Design of Mobile Application for SME Business Sustainability during Post Covid-19,” *IVIT 2022 - Proc. 1st Int. Vis. Informatics Technol. Conf.*, pp. 202–207, 2022, doi: 10.1109/IVIT55443.2022.10033365.
- [34] W. Ooms, M. C. J. Caniëls, N. Roijackers, and D. Cobben, “Ecosystems for smart cities: tracing the evolution of governance structures in a dutch smart city initiative,” *Int. Entrep. Manag. J.*, vol. 16, no. 4, pp. 1225–1258, Dec. 2020, doi: 10.1007/s11365-020-00640-7.
- [35] B. Parappallil Mathew and D. Bangwal, “People centric governance model for smart cities development: A systematic review, thematic analysis, and findings,” *Res. Glob.*, vol. 9, no. March, p. 100237, Dec. 2024, doi: 10.1016/j.resglo.2024.100237.
- [36] D. Landsbergen, A. Girth, and A. Westover-Muñoz, “Governance rules for managing smart city information,” *Urban Gov.*, vol. 2, no. 1, pp. 221–231, Jun. 2022, doi: 10.1016/j.ugj.2022.05.003.

- [37] I. Lima, C. Marques, R. Moraes, V. Sarmentó, and Z. Carvalho, “The Public Policy Strategies Fostering Smart Cities,” in *2017 IEEE First Summer School on Smart Cities (S3C)*, 2017, pp. 165–167. doi: 10.1109/S3C.2017.8501409.
- [38] H. S. Umam and A. Y. Mafruhat, “Strategi Optimalisasi Smart Economy Dalam Peningkatan Daya Saing UMKM Di Kota Bandung,” *Nuansa Akad. J. Pembang. Masy.*, vol. 7, no. 2, pp. 355–368, Oct. 2022, doi: 10.47200/jnajpm.v7i2.1317.
- [39] D. D. Kurniawati, A. Kulsum, and A. S. Meilandri, “Peran City Branding dalam Meningkatkan Pendapatan Daerah sebagai Transformasi Ekonomi yang Inklusif dan Berkelanjutan,” *Simp. Nas. Akunt. Vokasi XII*, vol. 12, no. 1 SE-Articles, pp. 536–546, Jun. 2024, [Online]. Available: <https://ocs.polije.ac.id/index.php/psnav/article/view/50>
- [40] M. Jamil, S. Alam, M. Asdaq, and M. Taufik, “Transformasi Digital Smart City dalam Meningkatkan Pendapatan Asli Daerah Kota Makassar (Studi Kasus Kontribusi UMKM),” pp. 2043–2049, 2021.
- [41] Sarah Dien Hawa, Angga Ari Prasetya, and Haza Lana Wigati, “The Role of Digital Transformation on Marketing Performance of Bird Cages in Ajibarang with Digital Marketing as a Mediation Variable,” *Proceeding Int. Conf. Islam. Econ. Islam. Banking, Zakah Waqf*, pp. 1–14, Sep. 2023, doi: 10.24090/ieibzawa.v1i1.739.
- [42] R. Meilariza, Z. Mirah Delima, and . Z., “Digitalization of Micro, Small, and Medium Enterprises (MSMEs) in Indonesia,” *KnE Soc. Sci.*, vol. 2024, pp. 245–257, Jun. 2024, doi: 10.18502/kss.v9i17.16334.
- [43] C. Jatiningrum, A. Marantika, W. Wulandari, and ..., “Pemanfaatan Aplikasi E-Commerce Pada Pemasaran Produk UMKM Kerajinan Batok Kelapa di Kabupaten Pringsewu,” *NEAR J. ...*, vol. 1, no. 2, 2022, [Online]. Available: <https://jurnal.kdi.or.id/index.php/nr/article/view/471>
- [44] Sadrakh Zefanya Putra, Shasabila Titanie Harianto, and Yabes Christian Matondang, “Analisis Pengaruh E-Commerce: Studi Literatur Terhadap Pertumbuhan Ekonomi UMKM,” *J. Ilm. Sist. Inf. dan Ilmu Komput.*, vol. 3, no. 2, pp. 119–131, Jun. 2023, doi: 10.55606/juisik.v3i2.494.
- [45] M. Nazar and Tertia Salsabila, “Pemanfaatan Potensi E-Commerce pada Peningkatan Keragaman Bisnis Lokal di Sulawesi Selatan; Perspektif Transformasi Digital,” *GIAT Teknol. untuk Masy.*, vol. 3, no. 1, pp. 25–37, May 2024, doi: 10.24002/giat.v3i1.9152.
- [46] I. Akbhari and A. Prathama, “Inovasi Aplikasi E-Peken: Optimalisasi Potensi UMKM Kota Surabaya,” *NeoRespublica J. Ilmu Pemerintah.*, vol. 4, no. 2, pp. 396–409, 2023, doi: 10.52423/neores.v4i2.90.
- [47] P. Rahmayanti, Y. Nurhadryani, and I. Hermadi, “Analysis and Design of Agricultural Marketplace Using User Experience,” in *2020 International Conference on Informatics, Multimedia, Cyber and Information System (ICIMCIS)*, IEEE, Nov. 2020, pp. 207–212. doi: 10.1109/ICIMCIS51567.2020.9354292.
- [48] I. Indriani, M. H. Dar, and I. Irmayanti, “Development of E-Commerce for Selling Honey Bees in the COVID-19 Era,” *Sinkron*, vol. 7, no. 1, pp. 165–175, Jan. 2022, doi: 10.33395/sinkron.v7i1.11263.
- [49] M. C. S. Islami, “PERANCANGAN UI/UX APLIKASI MARKETPLACE BARBERSHOP CUTSPLACE MENGGUNAKAN METODE DESIGN

- THINKING (Studi Kasus : Pangkas Rambut Cutboss),” vol. 11, no. July, pp. 128–144, 2024.
- [50] G. L. D. Intal, G. A. B. Leria, D. J. O. Lizano, V. D. Raquedan, and M. C. B. Uy, “A Study on the Design of PlantKita Mobile App: An E-Marketplace for Plant Enthusiasts using the Design Thinking Approach,” in *2023 International Conference on Software and System Engineering (ICoSSE)*, IEEE, Apr. 2023, pp. 12–20. doi: 10.1109/ICoSSE58936.2023.00011.
- [51] N. P. C. Sitorus, I. Jaelani, and Y. Muhyidin, “PERANCANGAN USER INTERFACE DAN USER EXPERIENCE APLIKASI PENJUALAN FURNITURE INTERIOR & BUILD PADA TOKO STEPLINE MENGGUNAKAN METODE GOAL DIRECTED DESIGN (GDD),” *JATI (Jurnal Mhs. Tek. Inform.)*, vol. 7, no. 4, pp. 2578–2584, 2023.
- [52] A. Hasibuan and O. K. Sulaiman, “Smart City, Konsep Kota Cerdas Sebagai Alternatif Penyelesaian Masalah Perkotaan Kabupaten/Kota, di Kota-Kota Besar Provinsi Sumatera Utara,” *Bul. Utama Tek.*, vol. 14, no. 2, pp. 127–135, 2019, [Online]. Available: <https://jurnal.uisu.ac.id/index.php/but/article/view/1097>
- [53] A. Maulana and K. Haerah, “Smart City Development Innovation Strategy and Challenges for the Government of Jember Regency,” *IOP Conf. Ser. Earth Environ. Sci.*, vol. 717, no. 1, 2021, doi: 10.1088/1755-1315/717/1/012008.
- [54] Evita Devega, “Langkah Menuju 100 Smart City,” *kominfo.go.id*, 2017. https://www.kominfo.go.id/content/detail/11656/langkah-menuju-100-smart-city/0/sorotan_media
- [55] W. Istiana, P. R. Adinda, and M. R. Rojat, “Menciptakan Kota Responsif Melalui Smart City,” *Portaldata.Org*, vol. 2, no. 8, pp. 1–10, 2023, [Online]. Available: <http://portaldata.org/index.php/portaldata/article/view/237>
- [56] Pemerintah Kabupaten Bantul, *Masterplan Smart City Kabupaten Bantul*. DI Yogyakarta: Pemerintah Kabupaten Bantul, 2023. [Online]. Available: <https://smartcity.bantulkab.go.id/dokumen.html>
- [57] Jagoan Indonesia, “Karakteristik Smart City,” <https://jagoanindonesia.id/>, 2022. <https://jagoanindonesia.id/karakteristik-smart-city/> (accessed Oct. 30, 2023).
- [58] Pemerintah Kabupaten Bantul, “Dimensi Smart Economy,” *Bantul Smart City*, 2023. <https://smartcity.bantulkab.go.id/dimensi/index/982.html> (accessed Dec. 06, 2023).
- [59] K. A. Achmad, L. E. Nugroho, A. Djunaedi, and Widyawan, “Smart City Model: a Literature Review,” in *2018 10th International Conference on Information Technology and Electrical Engineering (ICITEE)*, IEEE, Jul. 2018, pp. 488–493. doi: 10.1109/ICITEED.2018.8534865.
- [60] Undang-Undang Republik Indonesia Nomor 20 Tahun, “Undang-Undang Republik Indonesia Nomor 20 Tahun 2008,” no. 1, 2008.
- [61] Cindy Mutia Annur, “Inilah Kriteria UMKM Berdasarkan Hasil Penjualannya Menurut PP 7 Nomor 2021,” *databoks.katadata.co.id*, 2023. <https://databoks.katadata.co.id/datapublish/2023/05/19/inilah-kriteria-umkm-berdasarkan-hasil-penjualannya-menurut-pp-7-nomor-2021>
- [62] H. Hartatik *et al.*, *TREN TECHNOPRENEURSHIP: Strategi & Inovasi Pengembangan Bisnis Kekinian dengan Teknologi Digital*. PT. Sonpedia Publishing

- [63] E. Erwin *et al.*, *Bisnis Digital: Strategi dan Teknik Pemasaran Terkini*. PT. Green Pustaka Indonesia, 2023.
- [64] M. Kenney and J. Zysman, “The rise of the platform economy,” *Issues Sci. Technol.*, vol. 32, no. 3, p. 61, 2016.
- [65] M. Wulandari, F. Annas, and M. Rahmi, “Memberdayakan UMKM Lokal Wilayah Solok Melalui Sistem E-commerce Opencart untuk Meningkatkan Penjualan,” *JOVISHE J. Vision. Sharia Econ.*, vol. 3, no. 1, pp. 258–268, 2024.
- [66] M. I. A. Fathoni and S. Khoiriyah, “Pemanfaatan media digital dalam pengembangan usaha mikro, kecil dan menengah desa Prayungan dengan metode ABCD (Asset Based Community Development),” *J. Solma*, vol. 12, no. 3, pp. 1237–1246, 2023.
- [67] G. Parker, G. Petropoulos, and M. Van Alstyne, “Market Power in Digital Markets: Causes and implications”.
- [68] L. Setiyani and E. Tjandra, “UI / UX Design Model for Student Complaint Handling Application Using Design Thinking Method (Case Study: STMIK Rosma Karawang),” *Int. J. Sci. Technol. & Manag.*, vol. 3, no. 3 SE-Articles, pp. 690–702, May 2022, doi: 10.46729/ijstm.v3i3.505.
- [69] R. F. Dam, “The 5 Stages in the Design Thinking Process,” *Interaction Design Foundation - IxDF*, 2023. <https://www.interaction-design.org/literature/article/5-stages-in-the-design-thinking-process> (accessed Dec. 17, 2023).
- [70] L. Waidelich, A. Richter, B. Kölmel, and R. Bulander, “Design Thinking Process Model Review,” in *2018 IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC)*, 2018, pp. 1–9. doi: 10.1109/ICE.2018.8436281.
- [71] Y. Yudhanto, W. M. Pryhatyanto, and W. Sulandari, “Designing and Making UI/UX Designs on The Official Website with The Design Thinking Method,” *APICS 2022 - 2022 1st Int. Conf. Smart Technol. Appl. Informatics, Eng. Proc.*, pp. 165–170, 2022, doi: 10.1109/APICS56469.2022.9918684.
- [72] K. Kumar and M. Kurni, *Design Thinking: A Forefront Insight*. Boca Raton: CRC Press, 2022. doi: 10.1088/1751-8113/44/8/085201.
- [73] Interaction Design Foundation - IxDF, “What is Design Thinking (DT)?,” *Interaction Design Foundation - IxDF*, 2024. <https://www.interaction-design.org/literature/topics/design-thinking> (accessed Sep. 15, 2024).
- [74] A. T. L. Indrianto *et al.*, “Exploration of The Teaching and Learning Model Using the Design Thinking Method in Developing Community-Based Tourism,” *Rev. Gestão Soc. e Ambient.*, vol. 18, no. 1, p. e04740, Feb. 2024, doi: 10.24857/rgsa.v18n1-061.
- [75] R. Bender-Salazar, “Design thinking as an effective method for problem-setting and needfinding for entrepreneurial teams addressing wicked problems,” *J. Innov. Entrep.*, vol. 12, no. 1, p. 24, Apr. 2023, doi: 10.1186/s13731-023-00291-2.
- [76] A. Hidayatno, “Berpikir sistem: pola berpikir untuk pemahaman masalah yang lebih baik,” *Yogyakarta Leutika Prio*, 2013.
- [77] L. Almamalik, *Pendekatan Systems Thinking Untuk Mempelajari Kemacetan Lalu*

- [78] P. M. Senge, "The fifth discipline," *Meas. Bus. Excell.*, vol. 1, no. 3, pp. 46–51, 1997.
- [79] P. Wächter, "Thinking in systems—a primer." Taylor & Francis, 2011.
- [80] P. B. Checkland, *Systems Thinking, Systems Practice*. Chichester: Wiley, 1991.
- [81] J. Sterman, "System Dynamics: systems thinking and modeling for a complex world," 2002.
- [82] A. Ryan, "A Framework for Systemic Design," *FormAkademisk*, vol. 7, no. 4 SE-Artikler, Dec. 2014, doi: 10.7577/formakademisk.787.
- [83] Design Council, "Systemic Design Framework." <https://www.designcouncil.org.uk/our-resources/systemic-design-framework/> (accessed May 07, 2025).
- [84] S. Çamiçi, "What is systemic design?," *Sherpa*, 2022. <https://sherpa.digital/en/thoughts/what-is-systemic-design/> (accessed May 07, 2025).
- [85] M. Curatella, "Systemic Design Toolkit by Kristel van Ael of Namahn," *Curatella*, 2020. <https://curatella.com/systemic-design-toolkit-virtual-design-thinking-barcamp/> (accessed May 07, 2025).
- [86] S. Sridevi, "User interface design," *Int. J. Comput. Sci. Inf. Technol. Res.*, vol. 2, no. 2, pp. 415–426, 2014.
- [87] R. Adinegoro, S. Suakanto, H. Fakhurroja, and M. Hardiyanti, "Comparison of UI/UX Development Using Design Thinking vs Lean UX : A Comparative Study," in *2023 3rd International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS)*, 2023, pp. 147–152. doi: 10.1109/ICE3IS59323.2023.10335225.
- [88] J. Brooke, "SUS: a " quick and dirty" usability scale in PW Jordan, B. Thomas, BA Weerdmeester, & AL McClelland. *Usability Evaluation in Industry*." London: Taylor and Francis, 1996.
- [89] A. Bangor, P. T. Kortum, and J. T. Miller, "An empirical evaluation of the system usability scale," *Intl. J. Human–Computer Interact.*, vol. 24, no. 6, pp. 574–594, 2008.
- [90] G. W. Sasmito, L. O. M. Zulfiqar, and M. Nishom, "Usability Testing based on System Usability Scale and Net Promoter Score," in *2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI)*, 2019, pp. 540–545. doi: 10.1109/ISRITI48646.2019.9034666.
- [91] J. H. Juntumaa, M. A. Laitinen, and S. Kirichenko, "The Net Promoter Score (NPS) as a tool for evaluation of the user experience at culture and library services," *Qual. Quant. Methods Libr.*, vol. 9, no. 2, pp. 127–142, 2020.
- [92] A. Bangor, P. Kortum, and J. Miller, "Determining what individual SUS scores mean: adding an adjective rating scale," *J. Usability Stud.*, vol. 4, no. 3, pp. 114–123, May 2009.
- [93] J. Sauro and J. R. Lewis, *Quantifying the user experience: Practical statistics for user research*. Morgan Kaufmann, 2016.

- [94] Pemerintah Kabupaten Pringsewu, *Rencana Pembangunan Daerah (RPD) Pemerintah Kabupaten Pringsewu Tahun 2023-2026*. 2022.
- [95] BPS Kabupaten Pringsewu, “Pertumbuhan Ekonomi Kabupaten Pringsewu Tahun 2023.,” no. 1, Pringsewu, pp. 1–12, 2024. [Online]. Available: <https://pringsewukab.bps.go.id/id/pressrelease/2024/04/25/1439/ekonomi-kabupaten-pringsewu-tahun-2023-tumbuh-sebesar-4-78-persen--menguat-dibanding-tahun-2022-yang-tumbuh-sebesar-4-37-persen-.html>
- [96] BPS Kabupaten Pringsewu, “Kabupaten Pringsewu dalam Angka 2024,” 2014. [Online]. Available: <https://pringsewukab.bps.go.id/id/publication/2024/02/28/62c7ee004bed88aa8bcdeb6/kabupaten-pringsewu-dalam-angka-2024.html>
- [97] R. I. S. Kanafi, “BI Lampung catat jumlah pengguna QRIS capai 1,77 juta,” *antaranewas*, 2024. <https://lampung.antaranews.com/berita/736775/bi-lampung-catat-jumlah-pengguna-qr-is-capai-177-juta>
- [98] Pemerintah Republik Indonesia, *Peraturan Pemerintah (PP) Nomor 80 Tahun 2019 tentang Perdagangan Melalui Sistem Elektronik*. Indonesia, 2019. [Online]. Available: <https://peraturan.bpk.go.id/Details/126143/pp-no-80-tahun-2019>
- [99] Pemerintah Republik Indonesia, *Peraturan Pemerintah (PP) Nomor 7 Tahun 2021 tentang Kemudahan, Pelindungan, dan Pemberdayaan Koperasi dan Usaha Mikro, Kecil, dan Menengah*. Indonesia, 2021. [Online]. Available: <https://peraturan.bpk.go.id/Details/161837/pp-no-7-tahun-2021>
- [100] Pemerintah Republik Indonesia, *Instruksi Presiden (Inpres) Nomor 2 Tahun 2022 tentang Percepatan Peningkatan Penggunaan Produk Dalam Negeri dan Produk Usaha Mikro, Usaha Kecil, dan Koperasi Dalam Rangka Menyukseskan Gerakan Nasional Bangga Buatan Indonesia pada Pelaksanaan Pengadaan Ba*. Indonesia, 2022. [Online]. Available: <https://peraturan.bpk.go.id/Details/204320/inpres-no-2-tahun-2022>
- [101] Kementerian Perdagangan, *Peraturan Menteri Perdagangan Nomor 31 Tahun 2023 tentang Perizinan Berusaha, Periklanan, Pembinaan, dan Pengawasan Pelaku Usaha dalam Perdagangan melalui Sistem Elektronik*. Indonesia, 2023. [Online]. Available: <https://peraturan.bpk.go.id/Details/265202/permendag-no-31-tahun-2023>
- [102] P. N. Johnson-Laird, “Mental models and cognitive change,” *J. Cogn. Psychol.*, vol. 25, no. 2, pp. 131–138, Mar. 2013, doi: 10.1080/20445911.2012.759935.
- [103] J. Sweller, “Cognitive load during problem solving: Effects on learning,” *Cogn. Sci.*, vol. 12, no. 2, pp. 257–285, Jun. 1988, doi: 10.1016/0364-0213(88)90023-7.
- [104] J. Leppink, F. Paas, C. P. M. Van der Vleuten, T. Van Gog, and J. J. G. Van Merriënboer, “Development of an instrument for measuring different types of cognitive load,” *Behav. Res. Methods*, vol. 45, no. 4, pp. 1058–1072, Dec. 2013, doi: 10.3758/s13428-013-0334-1.
- [105] S. B. Park and J. E. Lee, “The influence of theory of planned behavior (tpb) on the perceived ease of use and perceived usefulness in accounting information users,” *Jeonsan Hoe’gye Yeon’gu*, vol. 20, no. 2, pp. 23–45, 2022.
- [106] M. Sheppard and C. Vibert, “Re-examining the relationship between ease of use and usefulness for the net generation,” *Educ. Inf. Technol.*, vol. 24, no. 5, pp. 3205–

- [107] M. Schrepp, A. Hinderks, and J. Thomaschewski, “Construction of a Benchmark for the User Experience Questionnaire (UEQ),” *Int. J. Interact. Multimed. Artif. Intell.*, vol. 4, no. 4, p. 40, 2017, doi: 10.9781/ijimai.2017.445.
- [108] D. Norman, “Emotion & Design: Attractive Things Work Better,” *Interactions*, vol. 9, no. 4, pp. 36–42, Jul. 2002, doi: 10.1145/543434.543435.
- [109] X. Neumeyer, S. C. Santos, and M. H. Morris, “Overcoming Barriers to Technology Adoption When Fostering Entrepreneurship Among the Poor: The Role of Technology and Digital Literacy,” *IEEE Trans. Eng. Manag.*, vol. 68, no. 6, pp. 1605–1618, Dec. 2021, doi: 10.1109/TEM.2020.2989740.
- [110] I. Masmira Dwijayanti and B. Prabowo, “Upaya Pengembangan Usaha Mikro Kecil Dan Menengah (Ukm) Di Keputran Kejambon Ii Melalui Web E-Peken Surabaya,” *J. Pengabd. Kpd. Masy.*, vol. 3, no. 3, pp. 287–294, 2023, [Online]. Available: https://jurnalfkip.samawa-university.ac.id/KARYA_JPM/article/view/598
- [111] F. Ullah, S. Qayyum, M. J. Thaheem, F. Al-Turjman, and S. M. E. Sepasgozar, “Risk management in sustainable smart cities governance: A TOE framework,” *Technol. Forecast. Soc. Change*, vol. 167, p. 120743, Jun. 2021, doi: 10.1016/j.techfore.2021.120743.
- [112] A. Kuzior, O. Pakhnenko, I. Tiutiunyk, and S. Lyeonov, “E-Governance in Smart Cities: Global Trends and Key Enablers,” *Smart Cities*, vol. 6, no. 4, pp. 1663–1689, Jun. 2023, doi: 10.3390/smartcities6040078.
- [113] Y. M. Agus, T. Murwadji, and E. Mulyati, “Analysis of SiBakul Jogja Regulations as a Strategy to Strengthen Micro and Small Enterprises,” *Damhil Law J.*, vol. 4, no. 1, p. 52, May 2024, doi: 10.56591/dlj.v4i1.2497.