

## DAFTAR PUSTAKA

- [1] Widiatmoko, Rahmawati, and S. Arianti, *Statistik Air Bersih Daerah Istimewa Yogyakarta*. Badan Pusat Statistik Daerah Istiwewa Yogyakarta, 2021.
- [2] Directorate of Assets and Smart System Research Group UGM. (2024) Smartwater management system. [Online]. Available: <https://smartcampus.ugm.ac.id/>
- [3] M. R. Huzein and Y. Yusniawati, “Pembuatan sistem monitoring ketinggian air kota surabaya berbasis web,” *Institut Teknologi Sepuluh Nopember*, 2020.
- [4] A. Tenggono, Y. Wijaya, E. Kusuma, and Welly, “Sistem monitoring dan peringatan ketinggian air berbasis web dan sms gateway,” *STMIK PalComTech*, vol. 5, no. 2, 2015.
- [5] A. Maribondang, H. Wowor, and S. Karaouw, “Perancangan sistem informasi pemetaan dan pemantauan daerah aliran sungai (das) tondano di kota manado berbasis sms gateway,” *E-journal Teknik Informatika*, vol. 5, no. 1, 2015.
- [6] A. W. Saragih, A. Farhanah, and Cahyana, “Aplikasi pemantauan banjir berbasis android menggunakan komunikasi lora,” *e-Proceeding of Applied Science*, vol. 6, no. 2, 2020.
- [7] D. Fatah, D. A. F. Barri, A. P. Zhou, Irwan, and L. Fujiyanti, “Sistem monitoring ketinggian air tangki tanaman hidroponik berbasis website,” *Jurnal Inovasi Teknologi Terapan*, vol. 1, no. 1, 2023.
- [8] H. Bouwer, *Groundwater Hydrology*. McGraw-Hill Book, New York, 1978.
- [9] C. W. Fetter, *Applied Hydrogeology*. Macmillan College Publishing Company, New York, 1994.
- [10] Soemarto, *Geolistrik Teknik Geofisika Untuk Penyelidikan Bawah Permukaan*. Gajah Mada University Press, Yogyakarta, 1989.
- [11] C. Asdak, *Hidrologi Dan Pengelolaan Daerah Aliran Sungai*. Gajah Mada University Press, Yogyakarta, 2002.
- [12] A. W. Nurrohman, M. Widyastuti, and S. Suprayogi, “Penilaian kerentanan air permukaan terhadap pencemaran menggunakan data penginderaan jauh dan teknik gis,” *Majalah Ilmiah Globë*, vol. 23, no. 2, 2021.
- [13] H. Effendi, *Telaah Kualitas Air Bagi Pengelolaan Sumber Daya dan Lingkungan Perairan*. Kanisius, 2003.
- [14] Battle Creek Area. (2024) Surface water vs. groundwater. [Online]. Available: <https://www.bcwater.org/surface-water-vs-groundwater/>
- [15] National Geographic Society. (2023) Water table. [Online]. Available: <https://education.nationalgeographic.org/resource/water-table/>

- [16] A. A. Marjuanto, T. Triadi, and D. N. Sugianto, “Pemetaan indeks kerentanan air tanah bebas terhadap pencemaran di dataran aluvial kota semarang dengan metode susceptibility index,” *Diponegoro University*, 2020.
- [17] RPS Solar Pumps. (2024) Anatomy of a well. [Online]. Available: <https://www.rpsolarpumps.com/learn/anatomy-of-a-well-terms/>
- [18] Pemerintah Daerah Istimewa Yogyakarta, *Peraturan Daerah Daerah Istimewa Yogyakarta Nomor 5 Tahun 2012 Tentang Pengelolaan Air Tanah*, 2012.
- [19] A. Zulsafar, A. Pratondo, and S. K. Sari, “Aplikasi pemantauan sumur pantau sumber air tanah berbasis web,” *e-Proceeding of Applied Science*, vol. 6, no. 1, 2020.
- [20] I. Sommerville, *Software Engineering*, 9th ed. Addison Wesley, Incorporated, 2010.
- [21] Y. Bassil, “A simulation model for the waterfall software development life cycle,” *International Journal of Engineering Technology (iJET)*, vol. 2, no. 5, 2012.
- [22] T. Soni. (2018) What is sdlc? (software development life cycle). [Online]. Available: <https://amplewebsol.com/what-is-sdlc-software-development-life-cycle/>
- [23] P. Rajasekhar and D. Yadav, “Critical issues in software testing during agile development,” *www.ijcst.com*, vol. 4, 2013.
- [24] B. Rajput, “Software quality assurance using agile software methodology in education assessment industry,” *Culminating Projects in Mechanical and Manufacturing Engineering*, 2016.
- [25] W. Cunningham. (2001) Manifesto for agile software development. [Online]. Available: <https://agilemanifesto.org/>
- [26] J. L. Amoros. (2024) The agile development process for mobile apps. [Online]. Available: <https://www.krasamo.com/agile-development-process>
- [27] J. Rumbaugh, I. Jacobson, and B. Grady, *The Unified Modeling Language Reference Manual*. Addison Wesley, Incorporated, 1998.
- [28] N. Medvidovic, D. S. Rosenblum, D. F. Redmiles, and J. E. Robbins, “Modeling software architectures in the unified modeling language,” *ACM Trans. Softw. Eng. Methodol.*, vol. 11, no. 1, p. 2–57, jan 2002.
- [29] A. Al-alshuhai and F. Siewe, “An extension of the use case diagram to model context-aware applications,” in *2015 SAI Intelligent Systems Conference (IntelliSys)*, 2015, pp. 884–888.
- [30] K. Fakhroutdinov. (2024) Uml use case diagrams. [Online]. Available: <https://www.uml-diagrams.org/use-case-diagrams.html>
- [31] M. Jamal and N. A. Zafar, “Transformation of activity diagram into coloured petri nets using weighted directed graph,” in *2016 International Conference on Frontiers of Information Technology (FIT)*, 2016, pp. 181–186.

- [32] Amazon Web Services. (2023) The difference between frontend and backend in application development. [Online]. Available: <https://aws.amazon.com/id/compare/the-difference-between-frontend-and-backend/>
- [33] S. M. Prasetyo, M. I. P. Nugroho, R. L. Putri, and O. Fauzi, "Pembahasan mengenai front-end web developer dalam ruang lingkup web development," *BULLET : Jurnal Multidisiplin Ilmu*, vol. 1, no. 6, 2022.
- [34] Finaps. (2023) Creating scalable and maintainable front-end architecture. [Online]. Available: <https://aws.amazon.com/id/compare/the-difference-between-frontend-and-backend/>
- [35] V. Siahaan and R. H. Sianipar, *JavaScript dari A sampai Z*. Sparta Publisher, 2018.
- [36] R. H. Sianipar, *Pemrograman Javascript: Teori dan Implementasi*. Penerbit Informatika, 2015.
- [37] C. Gackenhaimer, *Introduction to React*. Apress, 2015.
- [38] O. Hutsulyak. (2024) 10 key reasons why you should use react for web development. [Online]. Available: <https://www.techmagic.co/blog/why-we-use-react-js-in-the-development/>
- [39] AlmaBetter. (2023) Understanding the dom tree structure. [Online]. Available: <https://www.almabetter.com/bytes/tutorials/javascript/dom-tree-structure>
- [40] D. F. Oliveira, J. Gomes, R. Pereira, M. A. Brito, and R. Machado, "Development of a self-diagnostic system integrated into a cyber-physical system," *Computers*, vol. 11, no. 131, 2022.
- [41] S. Chandrakar. (2023) Understanding virtual dom and actual dom in react. [Online]. Available: <https://bootcamp.uxdesignn.cc/understanding-virtual-dom-and-actual-dom-in-react-1c18f0af0a2e>
- [42] Jaimin. (2024) Understanding virtual dom and actual dom in react. [Online]. Available: [HowtomakeReusableReactComponents?](#)
- [43] Meta Open Source. (2023) Writing markup with jsx. [Online]. Available: <https://www.ysi.com/parameters/level>
- [44] Meta Platforms, Inc. (2024) Introduction to jsx. [Online]. Available: <https://id.legacy.reactjs.org/docs/introducing-jsx.html>
- [45] F. Artemij, *React.js Essentials*. Packt Publishing Ltd, 2015.
- [46] Evan You Vite Contributors. (2024) Vite next generation frontend tooling. [Online]. Available: <https://vitejs.dev/>
- [47] Dumbways.id. (2022) Vite js - next generation frontend tool. [Online]. Available: <https://dumbways.id/blog/vite-js-next-generation-frontend-tool>
- [48] Rollup contributors. (2024) rollup.js the javascript module bundler. [Online]. Available: <https://rollupjs.org/>

- [49] M. Said. (2023) Vite vs. webpack: A head-to-head comparison. [Online]. Available: <https://kinsta.com/blog/vite-vs-webpack/>
- [50] Refine from San Francisco. (2024) What is vite? vite vs webpack. [Online]. Available: <https://refine.dev/blog/what-is-vite-vs-webpack/#introduction>
- [51] Remix Software, Inc. (2024) Uml use case diagrams. [Online]. Available: <https://reactrouter.com/en/main/route/route>
- [52] Recharts Group. (2024) Recharts a composable charting library built on react components. [Online]. Available: <https://recharts.org/>
- [53] Day.js. (2024) Day.js. [Online]. Available: <https://day.js.org/>
- [54] Leaflet. (2024) "leaflet an open-source javascript library for mobile-friendly interactive maps". [Online]. Available: "<https://leafletjs.com/>"
- [55] M. Meng, S. Steinhardt, and A. Schubert, "Application programming interface documentation: What do software developers want?" *Journal of Technical Writing and Communication*, vol. 48, no. 3, pp. 295–330, 2018.
- [56] P. Erlandsson and J. Remes, "Performance comparison : Between graphql, rest, and soap," pp. 49, xxxii, 2020.
- [57] A. Soni and V. Ranga, "Api features individualizing of web services: Rest and soap," *International Journal of Innovative Technology and Exploring Engineering*, vol. 8, no. 9, pp. 664–671, 2019.
- [58] M. Bryant, "Graphql for archival metadata: An overview of the ehri graphql api," in *2017 IEEE International Conference on Big Data (Big Data)*, 2017, pp. 2225–2230.
- [59] D. Gourley and B. Totty, *HTTP: The Definitive Guide*, ser. Definitive Guide Series. O'Reilly Media, Incorporated, 2002.
- [60] Z. Durumeric, Z. Ma, D. Springall, R. Barnes, N. Sullivan, E. Bursztein, M. D. Bailey, J. A. Halderman, and V. Paxson, "The security impact of https interception." in *NDSS*, 2017.
- [61] E. A. Prastyo. (2024) Explanation of the http protocol in the internet of things. [Online]. Available: <https://www.arduinoindonesia.id/>
- [62] T. A. Project. (2024) Axios. [Online]. Available: <https://axios-http.com/>
- [63] S. Guan, W. Hu, and H. Zhou, "Real-time data transmission method based on websocket protocol for networked control system laboratory," in *2019 Chinese Control Conference (CCC)*, 2019, pp. 5339–5344.
- [64] C. Yinka-Banjo and O. Esther, "Financial stock application using websocket in real time application," *International Journal of Informatics and Communication Technology (IJ-ICT)*, vol. 8, p. 139, 11 2019.
- [65] I. Fette and A. Melnikov, "The websocket protocol," Tech. Rep., 2011.

- [66] D. G. Puranik, D. C. Feiock, and J. H. Hill, “Real-time monitoring using ajax and websockets,” in *2013 20th IEEE International Conference and Workshops on Engineering of Computer Based Systems (ECBS)*, 2013, pp. 110–118.
- [67] [Pusher Ltd], “Pusher channels protocols,” 2024. [Online]. Available: [https://pusher.com/docs/channels/library\\_auth\\_reference/pusher-websockets-protocol/](https://pusher.com/docs/channels/library_auth_reference/pusher-websockets-protocol/)
- [68] I. Fette and A. Melnikov, “Rfc 6455: The websocket protocol,” Tech. Rep., 2011.
- [69] C. Musciano and B. Kennedy, *HTML & XHTML: The Definitive Guide*, ser. Definitive Guide. O’Reilly Media, 2002.
- [70] Refsnes Data. (2024) Easy learning with html. [Online]. Available: <https://www.w3schools.com/html/>
- [71] E. Meyer, *CSS: The Definitive Guide*, ser. Definitive Guide. O’Reilly Media, 2006.
- [72] Tailwind Labs Inc. (2024) Rapidly build modern websites without ever leaving your html. [Online]. Available: <https://tailwindcss.com/>
- [73] N. N. Supuwingsih and S. Hanief, “Forecasting agricultural land in west denpasar using the semi averages methods applied in gis,” in *2020 2nd International Conference on Cybernetics and Intelligent System (ICORIS)*, 2020, pp. 1–6.
- [74] Imperva. (2024) What is black box testing. [Online]. Available: <https://www.imperva.com/learn/application-security/black-box-testing/>
- [75] S. Nidhra and J. Dondeti, “Black box and white box testing techniques-a literature review,” *International Journal of Embedded Systems and Applications (IJESA)*, vol. 2, no. 2, pp. 29–50, 2012.
- [76] T. Heričko, B. Šumak, and S. Brdник, “Towards representative web performance measurements with google lighthouse,” in *Proceedings of the 2021 7th Student Computer Science Research Conference*, 2021, p. 39.
- [77] Chrome For Developers. (2024) Lighthouse. [Online]. Available: <https://developer.chrome.com/docs/lighthouse>
- [78] A. Dearle, “Software deployment, past, present and future,” in *Future of Software Engineering (FOSE '07)*, 2007, pp. 269–284.
- [79] Imperva. (2024) Vercel documentation. [Online]. Available: <https://vercel.com/docs>
- [80] World Wide Web Consortium, “W3c making the web work,” 2024. [Online]. Available: <https://www.w3.org/>