

**DAFTAR PUSTAKA**

- [1] M. D. Ruiz Morilla, M. Sans, A. Casasa, and N. Giménez, "Implementing technology in healthcare: insights from physicians," *BMC Medical Informatics and Decision Making*, vol. 17, no. 1, p. 92, Dec. 2017. [Online]. Available: <http://bmcmedinformdecismak.biomedcentral.com/articles/10.1186/s12911-017-0489-2>
- [2] E. Stolterman and A. C. Fors, "Information Technology and the Good Life," in *Information Systems Research*, B. Kaplan, D. P. Truex, D. Wastell, A. T. Wood-Harper, and J. I. DeGross, Eds. Boston, MA: Springer US, 2004, vol. 143, pp. 687–692, series Title: IFIP International Federation for Information Processing. [Online]. Available: [http://link.springer.com/10.1007/1-4020-8095-6\\_45](http://link.springer.com/10.1007/1-4020-8095-6_45)
- [3] M. Rowe, "Information And Communication Technology In Health: A Review Of The Literature," *Journal of Community and Health Sciences*, vol. 3, no. 1, pp. 68 – 77, Jan. 2008.
- [4] A. Babar, K. Carine, and P. Jokela, "Monitoring of Vital Signs Parameters with ICTs - A Participatory Design Approach," Dissertation, Linnaeus University, 2020.
- [5] D. C. A. Nugraha and I. Aknuranda, "An Overview of e-Health in Indonesia: Past and Present Applications," *International Journal of Electrical and Computer Engineering (IJECE)*, vol. 7, no. 5, p. 2441, Oct. 2017. [Online]. Available: <http://ijece.iaescore.com/index.php/IJECE/article/view/8196>
- [6] D. G. Kristiani, T. Triwiyanto, P. C. Nugraha, B. G. Irianto, Syaifudin, and D. Titisari, "The Measuring of Vital Signs Using Internet Of Things Technology (Heart Rate And Respiration)," in *2019 International Seminar on Application for Technology of Information and Communication (iSemantic)*. Semarang, Indonesia: IEEE, Sep. 2019, pp. 417–422. [Online]. Available: <https://ieeexplore.ieee.org/document/8884312/>
- [7] N. Ibrahim, R. Tomari, W. N. Wan Zakaria, and N. Othman, "Non-contact Heart Rate Monitoring Analysis from Various Distances with different Face Regions," *International Journal of Electrical and Computer Engineering (IJECE)*, vol. 7, no. 6, p. 3030, Dec. 2017. [Online]. Available: <http://ijece.iaescore.com/index.php/IJECE/article/view/8671>
- [8] Y. Fan, P. Xu, H. Jin, J. Ma, and L. Qin, "Vital Sign Measurement in Telemedicine Rehabilitation Based on Intelligent Wearable Medical Devices," *IEEE Access*, vol. 7, pp. 54 819–54 823, 2019. [Online]. Available: <https://ieeexplore.ieee.org/document/8698754/>
- [9] World Health Organization, *Global diffusion of eHealth: making universal health coverage achievable: report of the third global survey on eHealth*. Geneva: World Health Organization, 2016. [Online]. Available: <https://apps.who.int/iris/handle/10665/252529>
- [10] R. R. Adiputra, S. Hadiyoso, and Y. S. Hariyani, "Internet of Things: Low Cost and Wearable SpO2 Device for Health Monitoring," *International Journal of Electrical*



- [11] A. Alamsyah, M. Subito, M. Ikhlayel, and E. Setijadi, “Internet of things-based vital sign monitoring system,” *International Journal of Electrical and Computer Engineering (IJECE)*, vol. 10, no. 6, p. 5891, Dec. 2020. [Online]. Available: <http://ijece.iaescore.com/index.php/IJECE/article/view/21431>
- [12] D. Dias and J. Paulo Silva Cunha, “Wearable Health Devices—Vital Sign Monitoring, Systems and Technologies,” *Multidisciplinary Digital Publishing Institute (MDPI)*, vol. 18, no. 8, p. 2414, Jul. 2018. [Online]. Available: <http://www.mdpi.com/1424-8220/18/8/2414>
- [13] R. Prakash, S. V. Girish, and A. Balaji Ganesh, “Real-Time Remote Monitoring of Human Vital Signs Using Internet of Things (IoT) and GSM Connectivity,” in *Proceedings of the International Conference on Soft Computing Systems*, L. P. Suresh and B. K. Panigrahi, Eds. New Delhi: Springer India, 2016, vol. 398, pp. 47–56, series Title: Advances in Intelligent Systems and Computing. [Online]. Available: [http://link.springer.com/10.1007/978-81-322-2674-1\\_5](http://link.springer.com/10.1007/978-81-322-2674-1_5)
- [14] P. Macheso, T. D. Manda, S. Chisale, N. Dzupire, J. Mlatho, and D. Mukanyiligira, “Design of ESP8266 Smart Home Using MQTT and Node-RED,” in *2021 International Conference on Artificial Intelligence and Smart Systems (ICAIS)*. Coimbatore, India: IEEE, Mar. 2021, pp. 502–505. [Online]. Available: <https://ieeexplore.ieee.org/document/9396027/>
- [15] G. Preetham, “IoT Based Pulse Oximeter Using Esp8266.” [Online]. Available: [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3918115](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3918115)
- [16] K. Karsono, B. Irawan, and A. Sulistio, “Design Of Non-Contact Human Body Temperature Detection Based On Internet Of Things (Iot) To Open The Door Automatically,” *International Journal of Science, Technology & Management*, vol. 3, no. 4, pp. 1012–1017, Jul. 2022. [Online]. Available: <https://ijstm.inarah.co.id/index.php/ijstm/article/view/536>
- [17] S. Shankar J1, D. Palanivel, D. Venkateswarlu, and M. Sowmya, “MQTT in Internet of Things,” *International Research Journal of Engineering and Technology (IRJET)*, vol. 06, 2019.
- [18] W. R. S.M., *Konsep Dasar Keterampilan Kebidanan*. Malang: Wineka Media. Malang: Wineka Media, 2019.
- [19] A. Alimul and H. A, *Pengantar Konsep Dasar Keperawatan*. Jakarta: EGC, 2010.
- [20] Potter and Perry, *Fundamental Keperawatan Edisi 7*. Jakarta: Salemba Medika, 2010.
- [21] D. Kartika N, *Dasar-Dasar Keperawatan Gawat Darurat*. Jakarta: Salemba Medika. Jakarta: Salemba Medika, 2011.
- [22] E. S and T. D. Kasim, *Panduan Pemeriksaan Fisik bagi Mahasiswa Keperawatan*. Jakarta: Salemba Medika, 2012.



- [23] L. K. Ramasamy and S. Kadry, *Blockchain in the Industrial Internet of Things*. IOP Publishing, May 2021. [Online]. Available: <https://iopscience.iop.org/book/978-0-7503-3663-5>

- [24] M. Domb, “Wearable Devices and their Implementation in Various Domains,” in *Wearable Devices - the Big Wave of Innovation*, N. Nasiri, Ed. IntechOpen, Dec. 2019. [Online]. Available: <https://www.intechopen.com/books/wearable-devices-the-big-wave-of-innovation/wearable-devices-and-their-implementation-in-various-domains>
- [25] L. Marlinah, “Peran E-Health Sebagai Reformasi Pelayanan Kesehatan Dalam Upaya Meningkatkan Kualitas Kesehatan Masyarakat Indonesia,” *Seminar Nasional Teknologi 2018*, 2018. [Online]. Available: <https://repository.bsi.ac.id/repo/files/255165/download/April-2018---Prosiding-Nasional-Peran-E-Health-Sebagai-Reformasi-Pelayanan-Kesehatan-Dalam.pdf>
- [26] C. Pramana, *Telemedicine*. Universitas Negeri Semarang, Oct. 2022.
- [27] A. J. Bokolo, “Application of telemedicine and eHealth technology for clinical services in response to COVID-19 pandemic,” *Health and Technology*, vol. 11, no. 2, pp. 359–366, Mar. 2021. [Online]. Available: <http://link.springer.com/10.1007/s12553-020-00516-4>
- [28] Fatmawati, *Peran Telemedicine Bagi Tenaga Kesehatan Di Era New Normal*, 1st ed. Insan Cendekia Mandiri, 2021.
- [29] S. Sood, V. Mbarika, S. Jugoo, R. Dookhy, C. R. Doarn, N. Prakash, and R. C. Merrell, “What Is Telemedicine? A Collection of 104 Peer-Reviewed Perspectives and Theoretical Underpinnings,” *Telemedicine and e-Health*, vol. 13, no. 5, pp. 573–590, Oct. 2007. [Online]. Available: <https://www.liebertpub.com/doi/10.1089/tmj.2006.0073>
- [30] W. K. Cheng, B. Dibble, and D. Assanis, “Guest Editorial,” *International Journal of Engine Research*, vol. 6, no. 4, pp. i–ii, Aug. 2005. [Online]. Available: <http://journals.sagepub.com/doi/10.1177/146808740500600401>
- [31] P. Hutahaean, “Kajian Pemanfaatan Teknologi Telemedicine Di Indonesia.” [Online]. Available: [http://repositori.lapan.go.id/216/1/Publikasi%20Ilmiah\\_Pardamean\\_KKPA\\_2006.pdf](http://repositori.lapan.go.id/216/1/Publikasi%20Ilmiah_Pardamean_KKPA_2006.pdf)
- [32] S. Lestari and D. Gozali, “Narrative Review: Telemedicine Dan Implementasinya Dalam Membantu Perawatan Pasien Corona Virus Disease 2019,” vol. 19.
- [33] J. Vidal-Alaball, R. Acosta-Roja, N. Pastor Hernández, U. Sanchez Luque, D. Morrison, S. Narejos Pérez, J. Perez-Llano, A. Salvador Vèrges, and F. López Seguí, “Telemedicine in the face of the COVID-19 pandemic,” *Atención Primaria*, vol. 52, no. 6, pp. 418–422, Jun. 2020. [Online]. Available: <https://linkinghub.elsevier.com/retrieve/pii/S0212656720301268>
- [34] C. for Disease Control and Prevention, “Using Telehealth to Expand Access to Essential Health Services during the COVID-19 Pandemic.” [Online]. Available: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/telehealth.html>



- [36] Y. S. Parihar, "Internet of Things and Nodemcu," *Journal of Emerging Technologies and Innovative Research*, vol. 6, no. 6, 2019.
- [37] C. by EWA Company, "Serial Peripheral Interface (SPI) Bus Tutorial."
- [38] B. A. Forouzan, *Data communications and networking*, 5th ed. New York, NY: McGraw-Hill, 2013.
- [39] E. IoT Team, "ESP8266 Datasheet Technical Reference," 2017.
- [40] N. Gray, *Analog-to-Digital Converter Basics*. National Semiconductor, 2006.
- [41] E. S. IOT Team, "ESP8266EX Datasheet Version 4.3," 2015.
- [42] B. N. Laili, B. Destyningtias, M. Eng, and S. Heranurwani, "Rancang Bangun Pulse Oximetry Dengan Sistem Monitoring Internet Of Thing (Iot)," Thesis, Universitas Malang, Mar. 2020.
- [43] S. Petrus, S. Brian, and R. Lim, "Sistem Data Logging Sederhana Berbasis Internet Of Things untuk Pemantauan Suhu Tubuh dan Detak Jantung," *Jurnal Teknik Elektro*, vol. 11, 2018. [Online]. Available: <https://jurnalelektronika.petra.ac.id/index.php/elk/article/view/21039>
- [44] M. R. G, S. E. R, C. T. P., and G. R. M., "Patient monitoring systems," in *Biomedical Informatics: Computer Applications in Health Care and Biomedicine: Fourth Edition*, 4th ed., 2014.
- [45] C. R. Nugroho, "Alat Pengukur Saturasi Oksigen dalam Darah Menggunakan Metode PPG Reflectance Pada Sensor MAX30100," Ph.D. dissertation, Jakarta, 2019.
- [46] M. Integrated, "MAX30100 Datasheet Pulse Oximeter and Heart-Rate Sensor IC for Wearable Health," 2014.
- [47] S. Y and G. R., "Perancangan Alat Pendekripsi Suhu dalam Ruang Penyimpanan Obat menggunakan Metode Wireless Sensor Network pada Apotek Kencana Jaya," *Prosiding Seminar Nasional Inovasi dan Adopsi Teknologi (INOTEK)*, vol. 1, 2021.
- [48] M. Microelectronic Integrated Systems, "MLX90614 family Single and Dual Zone Infra Red Thermometer in TO-39," 2006.
- [49] K. de, *Principles of Non-Contact Temperature Measurement*. Optris, 2021.
- [50] L. Hao, *Infrared thermometer design using STM32F103 chip*, 9th ed. World Electronics, 2013.
- [51] J. Zhang, "Development of a Non-contact Infrared Thermometer," in *Proceedings of the 2017 International Conference Advanced Engineering and Technology Research (AETR 2017)*. Shenyang, China: Atlantis Press, 2018. [Online]. Available: <http://www.atlantis-press.com/php/paper-details.php?id=25892853>



- [53] T. Winarti, "Protokol X.25 Pada Jaringan Sistem Komunikasi Data Paket," *Jurnal Transformatika*, vol. 1, no. 2, p. 107, Jan. 2005. [Online]. Available: <https://journals.usm.ac.id/index.php/transformatika/article/view/4>
- [54] P. B. Muhammad, W. Yahya, and A. Basuki, "Analisis Perbandingan Kinerja Protokol Websocket dengan Protokol SSE pada Teknologi Push Notification," *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, vol. 2, no. 6, 2018.
- [55] Q. Liu and X. Sun, "Research of Web Real-Time Communication Based on Web Socket," *International Journal of Communications, Network and System Sciences*, vol. 05, no. 12, pp. 797–801, 2012. [Online]. Available: <http://www.scirp.org/journal/doi.aspx?DOI=10.4236/ijcns.2012.512083>
- [56] B. Soewito, Christian, F. E. Gunawan, Diana, and I. G. P. Kusuma, "Websocket to Support Real Time Smart Home Applications," *Procedia Computer Science*, vol. 157, pp. 560–566, 2019. [Online]. Available: <https://linkinghub.elsevier.com/retrieve/pii/S187705091931172X>
- [57] R. Diyeni and Kadek, "The Implementation of AJAX on Student Enrollment System," Ph.D. dissertation, Sanata Dharma Universoity, 2018. [Online]. Available: <http://repository.usd.ac.id/id/eprint/26285>
- [58] A. I. Nadaf, S. V. Kulkarni, D. P. P. Shah, and D. M. K. Bhanarkar, "Review Paper on AJAX Comet and Websocket Uses for Web HMI/SCADA," *International Journal of Engineering Research and General Science*, vol. 3, no. 5, 2015.
- [59] B. M. Susanto, E. S. J. Atmadji, and W. L. Brenkman, "Implementasi Mqtt Protocol Pada Smart Home Security Berbasis Web," *Jurnal Informatika Polinema*, vol. 4, no. 3, p. 201, May 2018. [Online]. Available: <http://jip.polinema.ac.id/ojs3/index.php/jip/article/view/207>
- [60] T. Jaffey, "MQTT and CoAP, IoT Protocols," *ECLIPSE Foundation*, 2014. [Online]. Available: [https://www.eclipse.org/community/eclipse\\_newsletter/2014/february/article2.php](https://www.eclipse.org/community/eclipse_newsletter/2014/february/article2.php)
- [61] L. Durkop, B. Czybik, and J. Jasperneite, "Performance evaluation of M2M protocols over cellular networks in a lab environment," in *2015 18th International Conference on Intelligence in Next Generation Networks*. Paris, France: IEEE, 2015, pp. 70–75. [Online]. Available: <https://ieeexplore.ieee.org/document/7073809/>
- [62] K. Grgic, I. Speh, and I. Hedi, "A web-based IoT solution for monitoring data using MQTT protocol," in *2016 International Conference on Smart Systems and Technologies (SST)*. Osijek, Croatia: IEEE, Oct. 2016, pp. 249–253. [Online]. Available: <http://ieeexplore.ieee.org/document/7765668/>
- [63] M. B. Yassein, M. Q. Shatnawi, S. Aljwarneh, and R. Al-Hatmi, "Internet of Things: Survey and open issues of MQTT protocol," in *2017 International Conference on Engineering & MIS (ICEMIS)*. Monastir: IEEE, May 2017, pp. 1–6. [Online]. Available: <http://ieeexplore.ieee.org/document/8273112/>