

DAFTAR PUSTAKA

- [1] OECD/WHO (2024), *Health at a Glance: Asia/Pacific 2024*. in Health at a Glance: Asia/Pacific. OECD, 2024. doi: 10.1787/51fed7e9-en.
- [2] Geneva: World Health Organization, *Global Tuberculosis Report 2023*. World Health Organization, 2023.
- [3] Kementerian Kesehatan Republik Indonesia, “Jejaring Layanan Tuberkulosis.”
- [4] D. B. Lolong *et al.*, “Nonadherence to anti-tuberculosis treatment, reasons and associated factors among pulmonary tuberculosis patients in the communities in Indonesia,” *PLoS One*, vol. 18, no. 8 August, Aug. 2023, doi: 10.1371/journal.pone.0287628.
- [5] World Health Organization, *Global tuberculosis report 2021: supplementary material*. 2022. [Online]. Available: <http://apps.who.int/bookorders>.
- [6] WHO, “Recommended regimens for treatment of drug susceptible pulmonary TB in children.” Accessed: Jun. 12, 2025. [Online]. Available: <https://tbksp.who.int/en/node/2125>
- [7] A. A. Husain, A. Kupz, and R. S. Kashyap, “Controlling the drug-resistant tuberculosis epidemic in India: challenges and implications,” *Epidemiol Health*, vol. 43, p. e2021022, Apr. 2021, doi: 10.4178/epih.e2021022.
- [8] R. Subbaraman *et al.*, “Understanding Nonadherence to Tuberculosis Medications in India Using Urine Drug Metabolite Testing: A Cohort Study,” *Open Forum Infect Dis*, vol. 8, no. 6, Jun. 2021, doi: 10.1093/ofid/ofab190.
- [9] Geneva: World Health Organization, *Handbook For the Use of Digital Technologies TO Support Tuberculosis Medication Adherence*. 2017. [Online]. Available: <http://apps.who.int/bookorders>.

- [10] M. S. Mohamed *et al.*, “The Impact of Digital Adherence Technologies on Health Outcomes in Tuberculosis: A Systematic Review and Meta-Analysis,” Feb. 03, 2024. doi: 10.1101/2024.01.31.24302115.
- [11] X. Liu *et al.*, “Effectiveness of Electronic Reminders to Improve Medication Adherence in Tuberculosis Patients: A Cluster-Randomised Trial,” *PLoS Med*, vol. 12, no. 9, Sep. 2015, doi: 10.1371/journal.pmed.1001876.
- [12] T. Manyazewal, Y. Woldeamanuel, D. P. Holland, A. Fekadu, and V. C. Marconi, “Effectiveness of a digital medication event reminder and monitor device for patients with tuberculosis (SELFTB): a multicenter randomized controlled trial,” *BMC Med*, vol. 20, no. 1, p. 310, Sep. 2022, doi: 10.1186/s12916-022-02521-y.
- [13] G. Latif, A. Shankar, J. M. Alghazo, V. Kalyanasundaram, C. S. Boopathi, and M. Arfan Jaffar, “I-CARES: advancing health diagnosis and medication through IoT,” *Wireless Networks*, vol. 26, no. 4, pp. 2375–2389, May 2020, doi: 10.1007/s11276-019-02165-6.
- [14] Guerrero-Ulloa Gleiston, Hornos Miguel J., Rodríguez-Domínguez Carlos, and Fernández-Coello Ma. Mercedes, “IoT-Based Smart Medicine Dispenser to Control and Supervise Medication Intake,” 2020. doi: 10.3233/AISE200021.
- [15] Kemenkes RI, *Pedoman Nasional Pelayanan Kedokteran Tata Laksana Tuberculosis*. Kementerian Kesehatan RI, 2020.
- [16] Annas Reza, “Pro TB 4.” Accessed: Jun. 18, 2025. [Online]. Available: https://www.klikdokter.com/obat/vitamin-dan-suplemen-dewasa/pro-tb-4?srsItd=AfmBOop1zXs9W521EIWvA-joseteJp2R4nmoZTPu8o0dGXtdk_yrN5zx
- [17] S. Patel, C. Salazar, K. K. Patel, S. M. Patel, and P. G. Scholar, “Internet of Things-IOT: Definition, Characteristics, Architecture, Enabling

- Technologies, Application & Future Challenges,” *International Journal of Engineering Science and Computing*, 2016, doi: 10.4010/2016.1482.
- [18] O. Uviase and G. Kotonya, “IoT architectural framework: Connection and integration framework for IoT systems,” in *Electronic Proceedings in Theoretical Computer Science, EPTCS*, Open Publishing Association, Feb. 2018, pp. 1–17. doi: 10.4204/EPTCS.264.1.
- [19] N. Naik, “Choice of Effective Messaging Protocols for IoT Systems: MQTT, CoAP, AMQP and HTTP.”
- [20] E. Margerrison, M. Argentieri, and S. Lucas, “Medical Device Material Performance Study Polyethylene Terephthalate (PET) Safety Profile Prepared for Submitted to Date of Submission,” 2020. [Online]. Available: www.ecri.org
- [21] L. Sinusaite *et al.*, “Fe and Zn co-substituted beta-tricalcium phosphate (β -TCP): Synthesis, structural, magnetic, mechanical and biological properties,” *Materials Science and Engineering: C*, vol. 112, p. 110918, Jul. 2020, doi: 10.1016/j.msec.2020.110918.
- [22] P. W. Rusimamto, E. Endryansyah, L. Anifah, R. Harimurti, and Y. Anistyasari, “Implementation of arduino pro mini and ESP32 cam for temperature monitoring on automatic thermogun IoT-based,” *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 23, no. 3, p. 1366, Sep. 2021, doi: 10.11591/ijeecs.v23.i3.pp1366-1375.
- [23] Z. Wu, K. Qiu, and J. Zhang, “A Smart Microcontroller Architecture for the Internet of Things,” *Sensors*, vol. 20, no. 7, p. 1821, Mar. 2020, doi: 10.3390/s20071821.
- [24] Espressif, “ESP32 Series Datasheet Version 4.9 2.4 GHz Wi-Fi + Bluetooth® + Bluetooth LE SoC Including.” [Online]. Available: www.espressif.com

- [25] “ESP32 Type-C USB WiFi Bluetooth-Compatible ESP-WROOM-32 Development Board.” Accessed: Jun. 09, 2025. [Online]. Available: <https://www.icstation.com/mobile/esp32-type-wifi-bluetooth-compatible-wroom-development-board-p-16231.html>
- [26] A. S. Algamili *et al.*, “A Review of Actuation and Sensing Mechanisms in MEMS-Based Sensor Devices,” *Nanoscale Res Lett*, vol. 16, no. 1, p. 16, Jan. 2021, doi: 10.1186/s11671-021-03481-7.
- [27] Lady Ada, “DHT11, DHT22 and AM2302 Sensors,” Jan. 2025. [Online]. Available: <http://adafru.it/>
- [28] F. Saputra, D. Ryana Suchendra, and M. Ikhsan Sani, “Implementation of DHT22 SENSOR System to Stabilize Temperature and Humidity Based on Microcontroller NODEMCU ESP8266 in Space,” *Proceeding of Applied Science*, vol. 6, no. 2, p. 1977, 2020.
- [29] Ikhuohon-Eboreime Rhoda, “A Seminar Report on Humanoid Robotics,” Apr. 2021. [Online]. Available: <https://www.researchgate.net/publication/359815806>
- [30] M. Rawashdeh and I. Circuitsarduino, “BYJ48 Stepper Motor Introduction: BYJ48 Stepper Motor.” [Online]. Available: <https://www.instructables.com/BYJ48-Stepper-Motor/>
- [31] Indoniaga Technology Corpora, “Motor Stepper 28BYJ-48.” Accessed: Jun. 18, 2025. [Online]. Available: <https://www.edukasielektronika.com/2020/12/motor-stepper-28byj-48.html>
- [32] Isaac, “ULN2003: driver untuk motor listrik.” Accessed: Jun. 18, 2025. [Online]. Available: <https://id.hwlibre.com/motor-stepper-28byj-48-semua-yang-perlu-Anda-ketahui/>
- [33] M. Ahmed and R. Ibrahim, “A comparative study of web application testing and mobile application testing,” in *Lecture Notes in Electrical*

Engineering, Springer Verlag, 2015, pp. 491–500. doi: 10.1007/978-3-319-07674-4_48.

- [34] Visual Studio Code, “Visual Studio Code documentation.” Accessed: Jun. 09, 2025. [Online]. Available: <https://code.visualstudio.com/docs>
- [35] XAMPP, “XAMPP Apache + MariaDB + PHP + Perl.” Accessed: Jun. 09, 2025. [Online]. Available: <https://www.apachefriends.org/>
- [36] Figma, “What is Figma.” Accessed: Jun. 12, 2025. [Online]. Available: <https://help.figma.com/hc/en-us/articles/14563969806359-What-is-Figma>
- [37] Postman, “What Is Postman.” Accessed: Jun. 12, 2025. [Online]. Available: <https://www.postman.com/product/what-is-postman/>
- [38] AWS Amazon, “Apa Perbedaan Antara Frontend dan Backend dalam Pengembangan Aplikasi?” Accessed: Jun. 18, 2025. [Online]. Available: <https://aws.amazon.com/id/compare/the-difference-between-frontend-and-backend/>
- [39] I. Journal of Science, “Introduction to HTML (Hyper Text Markup Language) - A Review Paper.” [Online]. Available: <https://www.researchgate.net/publication/327861224>
- [40] O. : Taryana and S. M. Kom, “Cascading Style Sheet,” 2021. Accessed: Jun. 18, 2025. [Online]. Available: <https://repository.unikom.ac.id/68890/1/Bab%208%20Pengenal%20CSS.pdf>
- [41] Bootstrap, “Introduction.” Accessed: Jun. 09, 2025. [Online]. Available: <https://getbootstrap.com/docs/4.1/getting-started/introduction/>
- [42] Oracle Indonesia, “What Is a Database?” Accessed: Jun. 18, 2025. [Online]. Available: <https://www.oracle.com/id/database/what-is-database/>
- [43] F. Diapoldo, S. S. Kom, and M. Kom, “MySQL (Structured Query Language) Manajemen Database.”

- [44] IBM, “What Is API?” Accessed: Jun. 12, 2025. [Online]. Available: <https://aws.amazon.com/what-is/api/>
- [45] D. Lincopinis, C. W. Paul Apiag, E. S. Bryan Cadiz, and D. R. Lincopinis, “A Review on PHP Programming Language.” [Online]. Available: <https://orcid.org/0000-0001-9503-8965>,
- [46] Earl Bill, “Calibrating Sensors Created by Bill Earl.” [Online]. Available: <https://learn.adafruit.com/calibrating-sensors>
- [47] World Health Organization, “Model guidance for the storage and transport of time-and temperature-sensitive pharmaceutical products,” 2011.
- [48] Postman, “API testing.” Accessed: Jun. 15, 2025. [Online]. Available: <https://www.postman.com/api-platform/api-testing/>
- [49] S. Wicaksono, “Blackbox Testing Teori dan Studi Kasus,” Jan. 2020, doi: 10.5281/zenodo.7659674.
- [50] T. Manyazewal *et al.*, “Patient-reported usability and satisfaction with electronic medication event reminder and monitor device for tuberculosis: a multicentre, randomised controlled trial,” *EClinicalMedicine*, vol. 56, p. 101820, Feb. 2023, doi: 10.1016/j.eclinm.2022.101820.
- [51] WHO, “Estimating the capacity of storage facilities,” Mar. 2015.