

DAFTAR PUSTAKA

- [1] Badan Pusat Statistik, “Jumlah Penduduk Pertengahan Tahun (Ribuan Jiwa), 2022-2024.” [Online]. Available: <https://www.bps.go.id/id/statistics-table/2/MTk3NSMy/jumlah-penduduk-pertengahan-tahun-ribuan-jiwa-.html>. [Accessed October, 21 2024]
- [2] K. Kesehatan, “Indonesia Siapkan Lansia Aktif dan Produktif.” [Online]. Available: <https://kemkes.go.id/id/indonesia-siapkan-lansia-aktif-dan-produktif>. [Accessed October, 21 2024]
- [3] Kemenkes RS Soeradji Tirtonegoro, “Mengenal Apa itu Penyakit Degeneratif.” [Online]. Available: <https://rsupsoeradji.id/mengenal-apa-itu-penyakit-degeneratif/>. [Accessed October, 21 2024]
- [4] O. Andrieieva *et al.*, “Effects of physical activity on aging processes in elderly persons,” *J. Phys. Educ. Sport*, vol. 19, no. 4, pp. 1308–1314, 2019, doi: 10.7752/jpes.2019.s4190. [Accessed October, 21 2024]
- [5] M. K. Agus Sulistyowati, S.Kep., *Pemeriksaan Tanda-Tanda Vital*. Sidoarjo, 2018. [Accessed October, 21 2024]
- [6] M. W. Raihan, W. R. Hardiningtias, and T. Dio, “CAPSTONE DESIGN WEARABLE DEVICE UNTUK DETEKSI SISTEM VITAL,” Universitas Telkom, S1 Teknik Telekomunikasi, Bandung, 2024.
- [7] Ascas, “HealthBand: a Remotely Monitored Health Status Bracelet,” Autodesk Instructables. [Online]. Available: <https://www.instructables.com/HealthBand/>. [Accessed May, 17 2025]
- [8] M. A. Adrian, M. R. Widiarto, and R. S. Kusumadiarti, “Health Monitoring System dengan Indikator Suhu Tubuh, Detak Jantung dan Saturasi Oksigen Berbasis Internet of Things (IoT),” *J. Petik*, vol. 7, no. 2, pp. 108–118, 2021, doi: 10.31980/jpetik.v7i2.1230.
- [9] IEEE-SA Standards Board, *IEEE Guide for Developing System Requirements Specifications Software Engineering Standards Committee of the IEEE Computer Society IEEE-SA Standards Board*. 1998.

- [10] A. Selay *et al.*, “Karimah Tauhid, Volume 1 Nomor 6 (2022), e-ISSN 2963-590X,” *Karimah Tauhid*, vol. 1, no. 2963–590X, pp. 861–862, 2022, [Online]. Available: <https://ojs.unida.ac.id/karimahtauhid/article/view/7633>. [Accessed May, 20 2025]
- [11] K. Karyatin, “Faktor-Faktor Yang Berhubungan Dengan Kejadian Penyakit Jantung Koroner,” *J. Ilm. Kesehat.*, vol. 11, no. 1, pp. 37–43, 2019, doi: 10.37012/jik.v11i1.66.
- [12] A. Gamara and A. Hendryani, “Rancang Bangun Alat Monitor Detak Jantung Dan Suhu Tubuh Berbasis Android,” *J. Sehat Mandiri*, vol. 14, no. 2, pp. 1–9, 2019, doi: 10.33761/jsm.v14i2.140.
- [13] P. K. Whelton *et al.*, “Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Pr,” *J. Am. Coll. Cardiol.*, vol. 71, no. 19, pp. e127–e248, 2018, doi: 10.1016/j.jacc.2017.11.006.
- [14] E. Systems, “ESP32-C3 Series Datasheet,” Espressif. [Online]. Available: https://www.espressif.com/sites/default/files/documentation/esp32-c3_datasheet_en.pdf. [Accessed June, 20 2025]
- [15] M. Integrated, “MAX30102 Datasheet,” Analog Devices. [Online]. Available: <https://www.analog.com/media/en/technical-documentation/data-sheets/max30102.pdf>. [Accessed June, 20 2025]
- [16] M. Integrated, “MAX30205 Datasheet Human Body Temperature Sensor,” Analog Devices. [Online]. Available: <https://www.analog.com/media/en/technical-documentation/data-sheets/MAX30205.pdf>. [Accessed June, 20 2025]
- [17] J. Allen, “Photoplethysmography and it application in clinical physiological measurement Photoplethysmography and its application in clinical,” no. September, 2014, doi: 10.1088/0967-3334/28/3/R01.
- [18] R. Yulian and B. Suprianto, “Rancang Bangun Photoplethysmography (PPG) Tipe Gelang Tangan untuk Menghitung Detak Jantung Berbasis Arduino,” *E-Journal Unesa*, vol. 6, 2017.
- [19] L. J. E. Dewi, “Media Pembelajaran Bahasa Pemrograman C++,” *J. Pendidik. Teknol. dan*

Kejuru., vol. 7, no. 1, 2010.

- [20] JetBrains. (n.d.), “Kotlin and Android. Kotlin Documentation.”, [Online]. Available: <https://kotlinlang.org/docs/android-overview.html>. [Accessed June, 26 2025]
- [21] M. Plainer, “Practical Study of Visual Studio Code Practical Course—Contributing to an Open-Source Project,” pp. 1–20, 2021.
- [22] A. M. Hassan, “JAVA and DART programming languages: Conceptual comparison,” *Indones. J. Electr. Eng. Comput. Sci.*, vol. 17, no. 2, pp. 845–849, 2019, doi: 10.11591/ijeecs.v17.i2.pp845-849.
- [23] E. Jiang *et al.*, “Non-Invasive Blood Pressure Estimation Using Multi-Domain Pulse Wave Features and Random Forest Regression,” 2025.
- [24] D. Chicco, M. J. Warrens, and G. Jurman, “The coefficient of determination R-squared is more informative than SMAPE, MAE, MAPE, MSE and RMSE in regression analysis evaluation,” pp. 1–24, 2021, doi: 10.7717/peerj-cs.623.
- [25] S. K. Wardhana, B. A. Wardjiono, and S. Komputer, “Analisis Pengiriman Data Sensor dengan Jaringan Wireless Menggunakan Metode Quality of Service (QoS),” vol. 5, no. 2, pp. 371–383, 2022.
- [26] I. B. A. E. M. Putra, M. S. I. D. Adnyana, and L. Jasa, “Analisis Quality of Service Pada Jaringan Komputer,” *Maj. Ilm. Teknol. Elektro*, vol. 20, no. 1, p. 95, 2021, doi: 10.24843/mite.2021.v20i01.p11.
- [27] A. Khafidin and T. Andrasto, “Implementation flow control to improve quality of service on computer networks,” *Indones. J. Electr. Eng. Comput. Sci.*, vol. 16, no. 3, pp. 1474–1481, 2019, doi: 10.11591/ijeecs.v16.i3.pp1474-1481.
- [28] A. Az, R. Septian, M. A. Saktiawan, and R. A. Saputra, “PREDIKSI PENYAKIT HIPERTENSI MENGGUNAKAN MACHINE LEARNING DENGAN ALGORITMA REGRESI LOGISTIK,” vol. 8, no. 6, pp. 12062–12068, 2024.
- [29] DatasetEngineer, “Human Vital Sign Dataset,” Kaggle. [Online]. Available: <https://www.kaggle.com/datasets/nasirayub2/human-vital-sign-dataset>. [Accessed May, 20

2025]

- [30] C. Khawas and P. Shah, “Application of Firebase in Android App Development-A Study,” *Int. J. Comput. Appl.*, vol. 179, no. 46, pp. 49–53, 2018, doi: 10.5120/ijca2018917200.
- [31] M. R. Maulana and D. Nurdiana, “Pengukuran Kebergunaan dan Pengalaman Pengguna Website Sistem Informasi Akademik Universitas Terbuka (SIA UT) Menggunakan Metode System Usability Scale (SUS) dan User Experience Questionnaire (UEQ),” *J. Informatics Commun. Technol.*, vol. 6, no. 1, pp. 1–17, 2024, doi: 10.52661/j_ict.v6i1.325.