

## DAFTAR PUSTAKA

- [1] Saraswati, R., Fasya, Z. A., & Santoso, E. B. (2022). Balance Exercise Menurunkan Risiko Jatuh Pada Lansia. *Jurnal Ilmiah Kesehatan Keperawatan*, 18(1), 42-47.
- [2] World Health Organization. (2021, June). *Falls*. <https://www.who.int/en/news-room/fact-sheets/detail/falls>.
- [3] Salsabila, S. (2024). *Gambaran tingkat risiko jatuh pada lansia berdasarkan Berg Balance Scale di Puskesmas Muara Dua Kota Lhokseumawe 2023* (Doctoral dissertation, Universitas Malikussaleh).
- [4] Kamesyworo, K., Haryanti, E., Hartati, S., & Elviani, Y. (2024). Pelatihan Deteksi Dini Terserang Stroke Dengan Metode Fast Pada Lansia Di Kelurahan Sari Bunga Mas Kecamatan Lahat. *Jurnal Abdi Kesehatan dan Kedokteran*, 3(2), 133-139.
- [5] Fitriandini, L., Suhardi, S., & Sari, K. (2025). Fall Detector pada Lansia berbasis IoT Menggunakan Sensor MPU-6050 dan Sensor GPS Neo 6M. *Journal of Telecommunication Electronics and Control Engineering (JTECE)*, 7(1), 10-22.
- [6] Eriska, S., Arradea, M. R. M., Saputra, Z., & Khasanah, N. (2025). Alat Pendeteksi Jatuh pada Lansia dalam Keadaan Rawat Jalan Berbasis Internet of Things (IoT). *Jurnal Inovasi Teknologi Terapan*, 3(1), 199-206.
- [7] Hendi, A., Hermanto, H., & Rozaaq, A. (2022). Sistem Deteksi Jatuh dan Peringatan Dini Pada Manusia Berbasis Android. *Jurnal Sistem Komputer dan Informatika*, 3(3), 350.
- [8] Ganesan, S., Chen, R., & Lin, K. Y. (2024). Exploring factors affecting the acceptance of fall detection technology among older adults and their families. *BMC Geriatrics*, 24(1), 1–12. <https://doi.org/10.1186/s12877-024-05262-0>.
- [9] Agussamad, Z., Rosmega, Z., & Batubara, Z. (2020). Knowledge and attitudes of families regarding elderly fall prevention in Pahlawan Binjai Village. *Caring: Indonesian Journal of Nursing Science (IJNS)*, 2(2), 44–52.
- [10] M. R. Ahmad, V. Fatmawati, and A. Ariyanto, “Faktor-faktor yang mempengaruhi resiko jatuh pada lansia di PCA Pajangan, Yogyakarta,” in *Prosiding Seminar Nasional Penelitian dan Pengabdian Kepada Masyarakat LPPM Universitas 'Aisyiyah Yogyakarta*, vol. 2, pp. 408–416, Oct. 2024.
- [11] Centers for Disease Control and Prevention. (2024, May 10). *Important facts about falls*. <https://www.cdc.gov/falls/data-research/index.html>

- [12] Purnomo, C. F., & Adriansyah, A. (2022). Rancang bangun fall detector system untuk pasien stroke dengan metode WSN (Wireless Sensor Network). *Jurnal Teknologi Elektro*, 13(1), 29–34.
- [13] Anita, A. (2024). SISTEM PENDETEKSI PERUBAHAN POSISI DAN SUDUT PASIEN JATUH DENGAN BERBASIS SENSOR ACCELEROMETER MPU 6050 MENGGUNAKAN METODE FUZZY LOGIC.
- [14] DFRobot. (n.d.). *Beetle ESP32-C6 (SKU: DFR1117)*. Retrieved July 1, 2025, from [https://wiki.dfrobot.com/SKU\\_DFR1117\\_Beetle\\_ESP32-C6](https://wiki.dfrobot.com/SKU_DFR1117_Beetle_ESP32-C6)
- [15] Battery University. (n.d.). *Lithium polymer batteries*. [https://batteryuniversity.com/learn/article/charging\\_lithium\\_polymer\\_batteries](https://batteryuniversity.com/learn/article/charging_lithium_polymer_batteries)
- [16] Advanced PMU. (n.d.). *Differences between lithium-ion and lithium-polymer batteries*. <https://www.advancedpmu.com/differences-lithium-ion-and-lithium-polymer-batteries/>
- [17] Wikipedia. (2025, March 17). *Perfboard*. <https://en.wikipedia.org/wiki/Perfboard>
- [18] BINUS University. (2023, May 4). *Programming IoT dengan Arduino IDE*. <https://sis.binus.ac.id/2023/05/04/programming-iot-dengan-arduino-ide>
- [19] Dewi, L. J. E. (2010). Media Pembelajaran Bahasa Pemrograman C++. *Jurnal Pendidikan Teknologi dan Kejuruan*, 7(1).
- [20] Microsoft. (n.d.). *Visual Studio Code*. <https://code.visualstudio.com/>
- [21] Node.js Foundation. (n.d.). *Tentang Node.js*. <https://nodejs.org/id/about>
- [22] Alfina, A., Lathifah, A., & Kurnia, U. I. (2024). Efektivitas Penggunaan Figma Sebagai Alat Prototyping Dalam Mata Kuliah Interaksi Manusia Dan Komputer. *Jurnal Pendidikan Teknologi Informasi (J-Diteksi)*, 3(2), 40-45.
- [23] JetBrains. (n.d.). *Kotlin and Android*. Kotlin Documentation. Retrieved July 1, 2025, from <https://kotlinlang.org/docs/android-overview.html>
- [24] Google. (2023). *Android Studio Overview*. <https://developer.android.com/studio>
- [25] Dicoding. (2021, April 30). *Apa Itu Firebase? Pengertian, Jenis-jenis, dan Fungsi Kegunaannya*. Dicoding Blog. Retrieved July 1, 2025, from <https://www.dicoding.com/blog/apa-itu-firebase-pengertian-jenis-jenis-dan-fungsi-kegunaannya/>
- [26] Google. (n.d.). *Firestore Cloud Messaging*. Firebase Documentation. Retrieved July 1, 2025, from <https://firebase.google.com/docs/cloud-messaging?hl=id>
- [27] Almira, A. S., Gizela, B. A., & Pratiwi, W. R. (2024). Prevalensi cedera akibat jatuh pada kelompok lanjut usia dan pra-lanjut usia. *Medical Journal of Soeradji*, 1(1), 46–60.

- [28] Google Firebase. (2024). *Lists of data*. <https://firebase.google.com/docs/database/web/lists-of-data>
- [29] Rabbani, R., Wahidah, I., & Santoso, I. H. (2021). Klasifikasi data deteksi jatuh menggunakan machine learning dengan algoritma adaptive boosting (Adaboost). *eProceedings of Engineering*, 8(5).
- [30] TDK Electronics. (n.d.). *MPU-6050: 6-axis MEMS MotionTracking device with DMP* [Datasheet]. <https://www.alldatasheet.com/datasheet-pdf/view/517744/ETC1/MPU-6050.html>
- [31] Espressif Systems. (2023). *ESP32-C6 datasheet*. [https://www.espressif.com/sites/default/files/documentation/esp32c6\\_datasheet\\_en.pdf](https://www.espressif.com/sites/default/files/documentation/esp32c6_datasheet_en.pdf)
- [32] Soegaard, M. (2024). *Rating scales for UX research*. Interaction Design Foundation. <https://www.interaction-design.org/literature/article/rating-scales-for-ux-research>
- [33] *Micro Focus*. (2015). *NetIQ Vivinet Diagnostics User Guide: Reviewing diagnosis factors*. [https://www.netiq.com/documentation/appmanager-vivinet/vdiaguserguide/data/reviewing\\_diagnosis\\_factors.html#one\\_way\\_delay](https://www.netiq.com/documentation/appmanager-vivinet/vdiaguserguide/data/reviewing_diagnosis_factors.html#one_way_delay)
- [34] Google Developers. (n.d.). *PageSpeed Insights – Overview*. <https://developers.google.com/speed/docs/insights/v5/about>
- [35] Ucar, M. H. B., Adjevi, A., Aktaş, F., & Solak, S. (2024). Utilizing IoMT-based smart gloves for continuous vital sign monitoring to safeguard athlete health and optimize training protocols. *Sensors*, 24(6), 1–26. <https://www.scribd.com/document/844887577/sensors-24-06500>
- [36] Bermbach, D., & Wittern, E. (2020). Benchmarking Web API quality – Revisited. *Journal of Web Engineering*, 19(5–6), 603–646. <https://doi.org/10.13052/jwe1540-9589.19563>
- [37] Android Developers. (n.d.). *App startup time*. <https://developer.android.com/topic/performance/vitals/launch-time>
- [38] Android Developers. (n.d.). *Rendering performance*. <https://developer.android.com/topic/performance/rendering>
- [39] Android Developers. (n.d.). *Intents and intent filters*. <https://developer.android.com/guide/components/intents-filters#Resolution>
- [40] Android Open Source Project. (n.d.). *HIDL and binderized HALs*. <https://source.android.com/docs/core/architecture/hidl>
- [41] Android Developers. (2024). *UI rendering performance*. <https://developer.android.com/topic/performance/vitals/render>

[42] MongoDB Inc. (n.d.). *Query optimization*.  
<https://www.mongodb.com/docs/manual/core/query-optimization/>