

DAFTAR PUSTAKA

- [1] R. J. Robles and T.-h. Kim, "Applications, Systems and Methods in Smart Home Technology: A Review," vol. 15, p. 13, 2010.
- [2] P. Newman, "There will be more than 55 billion IoT devices by 2025 — these are the biggest drivers for adoption," Business Insider, 27 Juli 2018. [Online]. Available: <https://www.businessinsider.com/internet-of-things-report/?IR=T>. [Accessed 22 Desember 2018].
- [3] V. Ricquebourg, D. Menga, D. Durand, B. Marhic, L. Delahoche and C. Loge, "The Smart Home Concept : our immediate future," in *2006 IST IEEE International Conference on E-Learning in Industrial Electronics*, Hammamet, 2007.
- [4] Statista, "Smart Home - Indonesia," Statista, April 2019. [Online]. Available: <https://www.statista.com/outlook/279/120/smart-home/indonesia>. [Accessed 19 September 2019].
- [5] T. Arends, "Sonoff-Tasmota Wiki," 16 December 2018. [Online]. Available: <https://github.com/arendst/Sonoff-Tasmota/wiki>. [Accessed 23 December 2018].
- [6] M. Salerno, "IoTRant," 18 Oktober 2018. [Online]. Available: <https://iotrant.com/2018/10/18/what-is-tasmota-and-what-can-it-do-for-you/>. [Accessed 18 April 2019].
- [7] J. Greenough and J. Camhi, "Here are IoT trends that will change the way businesses, governments, and consumers interact with the world," Business Insider, 29 Agustus 2016. [Online]. Available: <https://www.businessinsider.com/top-internet-of-things-trends-2016-1?IR=T>. [Accessed 10 Agustus 2019].

- [8] S. Sinha, "Introduction to Internet of Things: IoT Tutorial with IoT Application," edureka!, 22 Mei 2019. [Online]. Available: <https://www.edureka.co/blog/iot-tutorial/>. [Accessed 10 Agustus 2019].
- [9] F. Febiala, "Perancangan Otomatisasi Perangkat Elektronis Pada Sistem Rumah Cerdas Menggunakan Framework Home Assistant," UGM, Yogyakarta, 2018.
- [10] F. Masykur and F. Prasetyowati, "Aplikasi Rumah Pintar (Smart Home) Pengendali Peralatan Elektronik Rumah Tangga Berbasis Web," *Jurnal Teknologi Informasi dan Ilmu Komputer*, vol. 3, no. 1, p. 51, 2016.
- [11] F. Hidayat, "Perancangan Sistem Rumah Cerdas Berbasis Embedded Systems Menggunakan Framework MQTT dan openHAB," UGM, Yogyakarta, 2017.
- [12] statcounter, "Mobile Operating System Market Share Indonesia," StatCounter GlobalStats, 2019. [Online]. Available: <https://gs.statcounter.com/os-market-share/mobile/indonesia>. [Accessed 19 September 2019].
- [13] Amr Mustofa, "MQTT IoT Protocol complete Tutorial - How it Works with a demo," 1Sheeld, 4 Juli 2018. [Online]. Available: <https://1sheeld.com/mqtt-protocol/>. [Accessed 19 September 2019].
- [14] D. Suprianto and R. Agustina, PEMROGRAMAN APLIKASI SMARTPHONE & TABLET BERBASIS ANDROID UNTUK PEMULA, Malang: Mediakom, 2012.
- [15] A. Hathibelagal, "Android From Scratch: Setting Up the Development Environment," tutsplus, 14 March 2016. [Online]. Available: <https://code.tutsplus.com/articles/android-from-scratch-an-overview-of-android-application-development--cms-25972>. [Accessed 23 December 2018].

- [16] Google Developers, "Platform Architecture," Google, [Online]. Available: <https://developer.android.com/guide/platform>. [Accessed 28 Agustus 2019].
- [17] B. Armour, " 5 Key Benefits of Native Mobile App Development," Clear Bridge Mobile, 14 Agustus 2018. [Online]. Available: <https://clearbridgemobile.com/benefits-of-native-mobile-app-development/>. [Accessed 18 September 2019].
- [18] S. Conder and L. Darcey, "Learn Java for Android Developer: Introduction to Java," Envano Tuts+, 13 September 2010. [Online]. Available: <https://code.tutsplus.com/tutorials/learn-java-for-android-development-introduction-to-java--mobile-2604>. [Accessed 29 Agustus 2019].
- [19] B. N. Dahlan, "Mengenal dan Memulai Pemrograman Java | Belajar Java," Codepolitan, 25 Juli 2016. [Online]. Available: <https://www.codepolitan.com/mengenal-dan-memulai-pemrograman-java-belajar-java>. [Accessed 19 September 2019].
- [20] ayoksinau, "Pengertian dan Keunggulan Pemrograman Berorientasi Objek Lengkap," AyokSinau, 29 Juli 2019. [Online]. Available: <https://www.ayoksinau.com/pengertian-dan-keunggulan-pemrograman-berorientasi-objek-lengkap/>. [Accessed 19 September 2019].
- [21] M. Dian, "Apa itu XML dan Kenapa Penting dalam Pemrograman?," Petanikode, 27 Februari 2015. [Online]. Available: <https://www.petanikode.com/xml-dasar-untuk-pemula/>. [Accessed 29 Agustus 2019].
- [22] Google Developers, "Layout," Google, [Online]. Available: <https://developer.android.com/guide/topics/ui/declaring-layout?hl=id>. [Accessed 29 Agustus 2019].
- [23] IoT with Us, "What is Tasmota?," IoT With Us, 10 November 2018. [Online]. Available: <https://www.iotwithus.com/what-is-tasmota/>. [Accessed 29 Agustus 2019].

- [24] Google Developers, "Firebase Guide," Google, [Online]. Available: <https://firebase.google.com/docs/android/setup>. [Accessed 02 September 2019].
- [25] Google, "Firebase," Google, [Online]. Available: <https://firebase.google.com/products/>. [Accessed 05 September 2019].
- [26] R. Indah, "Keunggulan "Firebase" Realtime Database," Laboratorium Enterprise Application FTI Universitas Andalas, 2 Mei 2018. [Online]. Available: <http://lea.si.fti.unand.ac.id/2018/05/keunggulan-firebase-realtime-database/>. [Accessed 19 September 2019].
- [27] P. d. Croos, "When You Should (and Shouldn't) Use Firebase," Codementor, 4 Januari 2018. [Online]. Available: <https://www.codementor.io/cultofmetatron/when-you-should-and-shouldn-t-use-firebase-f62bo3gxv>. [Accessed 2 September 2019].
- [28] D. Ferreira, "MQTT-AWARE," 16 April 2013. [Online]. Available: <http://awareframework.com/mqtt/>. [Accessed 18 April 2019].
- [29] Fiware, "IoT Over MQTT - Step-by-Step," Fiware, [Online]. Available: <https://fiware-tutorials.readthedocs.io/en/latest/iot-over-mqtt/index.html>. [Accessed 19 September 2019].
- [30] T. Niemueller, "Zero Configuration Networking," in *Informatiktage 2006: Fachwissenschaftlicher Informatik-Kongress*, Bonn, 2006.
- [31] Google, " Use network service discovery," Google, [Online]. Available: <https://developer.android.com/training/connect-devices-wirelessly/nsd>. [Accessed 24 December 2018].
- [32] A. Sharma, S. Gupta and M. Mittal, "A Conceptual Review on Smart Homes," *International Journal of Computer Sciences and Engineering*, p. 6, 2018.

- [33] R. Piyare and S. R. Lee, "Smart Home-Control and Monitoring System Using Smart Phone," in *1st International Conference on Convergence and its Application (ICCA)*, Macao, 2013.
- [34] M. E. Khan, "Different approaches to white box testing technique for finding errors," *International Journal of Software Engineering and its Applications*, vol. 5, no. 3, pp. 1-2, 2011.
- [35] A. Rongala, "What is Black Box Testing: Advantages and Disadvantages," *Invensis*, 9 Maret 2015. [Online]. Available: <https://www.invensis.net/blog/it/black-box-testing-advantages-disadvantages/>. [Accessed 5 September 2019].
- [36] V. Beal, "Black Box Testing," *Webopedia*, [Online]. Available: https://www.webopedia.com/TERM/B/Black_Box_Testing.html. [Accessed 05 September 2019].
- [37] D. W. W. Royce, "Managing the Development of Large Software Systems," *IEEE WESCON 26*, p. 11, 1970.
- [38] Y. Bassil, "A Simulation Model for the Waterfall Software Development Life Cycle," *International Journal of Engineering*, vol. 2, no. 5, p. 7, 2012.
- [39] Tutorials Point, "SDLC - Waterfall Model," *Tutorials Point*, [Online]. Available: https://www.tutorialspoint.com/sdlc/sdlc_waterfall_model.htm. [Accessed 19 September 2019].
- [40] R. Laddad, "Using Cloud Foundry Services with Spring: Part 2 - Auto-reconfiguration," *Spring*, 04 November 2011. [Online]. Available: <https://spring.io/blog/2011/11/04/using-cloud-foundry-services-with-spring-part-2-auto-reconfiguration/>. [Accessed 10 Oktober 2019].
- [41] O. Filipova and N. Oksana, "Definition of the Criteria for Layout of the UML Use Case Diagrams," *Applied Computer Systems*, vol. 24, no. 1, pp. 75-81, 2019.

- [42] E. Triandini and I. Suardika, "Use Case Diagram," in *Step by Step Desain Proyek Menggunakan UML*, Penerbit Andi, 2012, p. 18.
- [43] C. B. Kreitzberg, "Reducing Outsourcing Risk Through Visual Communication," pp. 1-5, 2004.
- [44] T. Arends, "Sonoff-Tasmota : PlatformIO," [Online]. Available: <https://github.com/arendst/Sonoff-Tasmota/wiki/PlatformIO>. [Accessed 05 September 2019].
- [45] Google Developers, "Firebase Authentication," Google, [Online]. Available: <https://firebase.google.com/docs/auth>. [Accessed 07 September 2019].
- [46] L. Vogel, S. Scholz and D. Weiser, "Using Retrofit 2.x as REST client - Tutorial," Vogella, [Online]. Available: <https://code.tutsplus.com/tutorials/getting-started-with-retrofit-2--cms-27792>. [Accessed 06 September 2019].
- [47] D. Dyer, "Accessing Local Name-Based Virtual Hosts From the Android Emulator," DZone, 23 Januari 2012. [Online]. Available: <https://dzone.com/articles/accessing-local-name-based>. [Accessed 07 September 2019].
- [48] Google Developers, "Firebase Installation & Setup on Android," Google, [Online]. Available: <https://firebase.google.com/docs/database/android/>. [Accessed 07 September 2019].
- [49] S. Kock, "Paho Android Service - MQTT Client Library Encyclopedia," HiveMQ, 02 Desember 2015. [Online]. Available: <https://www.hivemq.com/blog/mqtt-client-library-encyclopedia-paho-android-service/>. [Accessed 07 September 2019].
- [50] H. Narayan, "How to Write Complex Business Logic Test Scenarios Using Decision Table Technique," Software Testing Help, 21 Agustus 2019. [Online]. Available: <https://www.softwaretestinghelp.com/decision-table-test-case-design-technique/>. [Accessed 19 September 2019].



[51] P. Newman, "There will be more than 55 billion IoT devices by 2025 — these are the biggest drivers for adoption," Business Insider, 27 July 2018. [Online]. Available: <https://www.businessinsider.com/internet-of-things-report/?IR=T>. [Accessed 22 December 2018].