DAFTAR PUSTAKA

[1] S. Agrawal dan D. Vieira, "A survey on internet of things," *Abakós,* vol. 1, no. 2, pp. 78-95, 2013.

[2] A. Zanella, N. Bui, A. Castellani, L. Vangelista dan M. Zorzi, "Internet of Things for Smart Cities," *IEEE Internet Things Journal,* vol. 1, no. 1, pp. 22-32, 2014.

[3] I. F. Akyildiz, S. W, Y. Sankarasubramaniam dan E. Cayirci, "Wireless sensor networks: a survey," *Computer Networks,* vol. 38, no. 4, pp. 393-422, 2002.

[4] J. Chase, dalam *The Evolution of the Internet of Things,* Texas Instruments, 2013, p. 1.

[5] A. J. Wixted, P. Kinnaird, H. Larijani, A. Tait, A. Ahmadinia dan N. Strachan, "Evaluation of LoRa and LoRaWAN for wireless sensor networks," dalam *IEEE,* Orlando, 2016.

[6] L. Alliance, A technical overview of loRa and LoRaWAN, LoRa Alliance, 2015.

[7] A. Botta, W. d. Donato, V. Persico dan A. Pescapé, "Integration of Cloud computing and Internet of Things: A survey," *Future Generation Computer Systems,* vol. 56, pp. 684-700, 2016.

[8] S. Guoqiang, C. Yanming, Z. Chao dan Z. Yanxu, "Design and Implementation of a Smart IoT Gateway," *IEEE International Confrence on Green Computing and Communications and IEEE Cyber, Physical and Social Computing,* pp. 720-723, 2013.

[9] O. B. Pratama, A. Bhawiyuga dan K. Amron, "Pengembangan Perangkat Lunak IoT Cloud Platform Berbasis Protokol Komunikasi HTTP," *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer,* vol. 2, no. 9, pp. 3013-3020, 2018.

[10] H. Arijuddin, A. Bhawiyuga dan K. Amron, "Pengembangan Sistem Perantara Pengiriman Data Menggunakan Modul Komunikasi LoRa dan Protokol MQTT Pada Wireless Sensor Network," *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer,* vol. 3, no. 2, pp. 1655-1659, 2019.

[11] D. Davcev , K. Mitreski , S. Trajkovic , V. Nikolovski dan N. Koteli, "IoT agriculture system based on LoRaWAN," dalam *14th IEEE International Workshop on Factory Communication Systems (WFCS),* Imperia, Italy, 2018.

[12] D.-l. Jiao dan X. Lou, "Water Quality Monitoring System Based on LoRa," dalam *International Conference on Information, Electronic and Communication Engineering (IECE 2018),* 2018.

[13] K. Karimi dan G. Atkinson, "What the Internet of Things (IoT) Needs to Become a Reality," 2014. [Online]. Available: http://www.freescale.com/files/32bit/doc/white_paper/INTOTHNGSWP.pdf. [Diakses 18 Agustus 2019].

[14] C. Wang, M. Daneshmand, M. Dohler, X. Mao, R. Q. Hu dan H. Wang, "Guest Editorial - Special Issue on Internet of Things (IoT): Architecture, Protocols and Services," *IEEE Sensors Journal*, vol. 13, no. 10, pp. 3505 - 3510, 2013.

[15] A. V. Sutagundar dan D. Hatti, ""Data Management in Internet of Things," *The Internet of Things*, vol. 20, no. 2, pp. 365-382, 2017.

[16] R. Aritonang, "Perancangan Gateway Jaringan Sensor Nirkabel dan Sistem Aktuator Menggunakan Raspberry Pi untuk Pengairan pada Bidang Pertanian," Skripsi, Departemen Teknik Elektro dan Teknologi Informasi, Universitas Gadjah Mada, Yogyakarta, 2016.

[17] K. Rong, G. Hu, Y. Lin, Y. Shi dan L. Guo, "Understanding business ecosystem using a 6C framework in Internet-of-Things-based sectors," *International Journal of Production Economics*, vol. 159, pp. 41-55, 2015.

[18] A. Augustin, J. Yi, T. H. Clausen dan W. M. Townsley, "A study of LoRa: Long range & low power networks for the internet of things," *Sensors*, vol. 16, no. 9, p. 1466, 2016.

[19] T. Pallone, "Powering IoT's Next Generation," Electronics360, 8 Januari 2018. [Online]. Available: https://electronics360.globalspec.com/article/10806/powering-iot-s-next-generation. [Diakses 19 Agustus 2019].

[20] Menteri Komunikasi dan Informatika, *Peraturan Menteri Komunikasi dan Informatika Nomor 1 Tahun 2019 tantang Penggunaan Spektrum Frekuensi Radio Berdasarkan Izin Kelas*, Jakarta: Menteri Komunikasi dan Informatika, 2019.

[21] N. Ducrot, D. Ray dan A. Saadani, LoRa Device Developer Guide, Orange Connected Objects & Partnerships, 2016.

[22] E. Aras, G. Ramachandran, P. Lawrence dan D. Hughes, "Exploring the Security Vulnerabilities of LoRa," dalam *3rd IEEE International Conference on Cybernetics (CYBCONF)*, Exeter, UK, 2017.

[23] SEMTECH, "Network Providers," SEMTECH, [Online]. Available: https://www.semtech.com/lora/ecosystem/networks. [Diakses 19 Agustus 2019].

[24] W. Giezeman, "The Things Network: Building a global IoT data network in 6 months," Medium, 12 Januari 2016. [Online]. Available: https://medium.com/@wienke/the-things-network-building-a-global-iot-data-network-in-6-months-adc2c0b1ae9b. [Diakses 19 Agustus 2019].

[25] LoRa-Server, "LoRaServer, open-source LoRaWAN® Network Server stack," LoRaServer, [Online]. Available: https://docs.loraserver.io/. [Diakses 19 Agustus 2019].

[26] BLUELINE, "Cloud Service," BLUELINE, [Online]. Available: http://blueline.co.id/id/service-solution/school/cloud-service/. [Diakses 20 Agustus 2019].

[27] L. M. Vaquero, L. Rodero-Merino, J. Caceres dan M. Lindner, "A break in the clouds: towards a cloud definition," *ACM SIGCOMM Computer Communication Review,* vol. 39, no. 1, pp. 50-55, 2009.

[28] J. Mineraud, O. Mazhelis, X. Su dan S. Tarkoma, "A gap analysis of Internet-of-Things platforms," *ScienceDirect,* vol. 89, no. 90, pp. 5-16, 2016.

[29] A. Singh dan Y. Viniotis, "An SLA-based resource allocation for IoT applications in cloud environments," dalam *Cloudification of the Internet of Things (CIoT)*, Paris, France, 2016.

[30] Kaaproject, "What is an IoT platform?," Kaaproject, 26 Januari 2019. [Online]. Available: https://www.kaaproject.org/what-is-iot-platform/. [Diakses 20 Agustus 2019].

[31] Hermawan, "Pengertian Database Beserta Fungsi dan Jenis-Jenis Database," NESABAMEDIA, 27 April 2019. [Online]. Available: https://www.nesabamedia.com/pengertian-database-dan-fungsinya/. [Diakses 21 Agustus 2019].

[32] Y. Arkan, "Pengertian dan Tujuan Basis Data," Arkan, 31 Juli 2017. [Online]. Available: http://student.blog.dinus.ac.id/yasubarkan/2017/07/31/pengertian-basis-data/. [Diakses 21 Agustus 2019].

[33] G. Jaiswal dan A. P. Agrawal, "Comparative analysis of Relational and Graph databases," *IOSR Journal of Engineering (IOSRJEN)*, vol. 3, no. 8, pp. 25-27, 2013.

[34] S. Chickerur, A. Goudar dan A. Kinnerkar, "Comparison of Relational Database with Document-Oriented Database (MongoDB) for Big Data Applications," dalam *International Conference on Advanced Software Engineering & Its Applications (ASEA)*, Jeju, South Korea, 2015.

[35] A. Beaulieu, Learning SQL Second Edition, CA, USA: O'Reilly, 2009.

[36] Panji, "Mengenal Basis Data Non-Relasional," PanjiNotes, 18 Februari 2018. [Online]. Available: http://panjinotes.web.id/2018/02/18/mengenal-basis-data-non-relasional/. [Diakses 21 Agustus 2019].

[37] M. Saputra, "Perbedaan MySql dan NoSql," ERABelajar, 21 Oktober 2016. [Online]. Available: http://developer.erabelajar.com/perbedaan-mysql-dan-nosql/. [Diakses 21 Agustus 2019].

[38] C. A. Putra, "Pengantar Database NoSQL dan MongoDB," CandraLab Studio, 27 Februari 2014. [Online]. Available: http://www.candra.web.id/pengantar-database-nosql-dan-mongodb/. [Diakses 21 Agustus 2019].

[39] M. E. Zulhimar, "SQL vs NoSQL," Medium, 1 Juni 2019. [Online]. Available: https://medium.com/@muhamadenrinal/the-sql-vs-nosql-1b5a2778374e. [Diakses 22 Agustus 2019].

[40] A. Qosdil, "Istilah "Frontend" dan "Backend" Membingungkan?," Medium, 16 Juni 2015. [Online]. Available: https://medium.com/@qosdil/istilah-front-end-dan-back-end-yang-membingungkan-7e091b99cfb6. [Diakses 23 Agustus 2019].

[41] Pluralsight, "What's the Difference Between the Front-End and Back-End?," Pluralsight, 28 Januari 2015. [Online]. Available: https://www.pluralsight.com/blog/film-games/whats-difference-front-end-back-end. [Diakses 23 Agustus 2019].

[42] M. Godbolt, Frontend Architecture for Design Systems: A Modern Blueprint for Scalable and Sustainable Websites, O'Reilly Media, 2016.

[43] M. Stowe, Undisturbed REST : A Guide to Designing The Perfect API, San Fransisco: Mulesoft, 2015.

[44] S. Clarke, "Measuring API usability," *Doctor Dobbs Journal*, vol. 29, no. 5, pp. S6-S9, 2004.

[45] D. Benslimane, s. Dustdar dan A. Sheth, "Services Mashups: The New Generation of Web Applications," *IEEE Internet Computing*, vol. 12, no. 5, pp. 13-15, 2008.

[46] E. Johnson, "A. programming interface API Testing (White Box Testing)," INTLAND SOFTWARE, 17 Juli 2015. [Online]. Available: https://content.intland.com/blog/agile/api/api-testing-application-programming-interface-white-box-testing-internet-of-things. [Diakses 25 Agustus 2019].

[47] R. Fielding dan R. N. Taylor, "Principled design of the modern Web architecture," *ACM Transactions on Internet Technology (TOIT),* vol. 2, no. 2, pp. 115-150, 2002.

[48] A. Rizky, "Kelebihan dan Kekurangan Web Service SOAP vs REST," Apradiz, Desember 2014. [Online]. Available: http://apradisnewcyber.blogspot.com/2014/12/kelebihan-dan-kekurangan-web-service.html. [Diakses 26 Agustus 2019].

[49] W. Nurdiyanto, "Perbandingan SOAP dan REST sebagai Web Service," PUSDIKLAT BPS, 15 Oktober 2012. [Online]. Available: http://pusdiklat.bps.go.id/index.php?r=artikel/view&id=206. [Diakses 26 Agustus 2019].

[50] Feridi, "Mengenal RESTful Web Services," CODEPOLITAN, 21 Januari 2019. [Online]. Available: https://www.codepolitan.com/mengenal-restful-web-services. [Diakses 26 Agustus 2019].

[51] "Introduction - Laravel," 2019. [Online]. Available: https://laravel.com/docs/5.8/. [Diakses 28 Juni 2019].

[52] A. Sandi, "Alasan Mengapa Kamu Harus Menggunakan Framework Laravel," 13 November 2017. [Online]. Available: https://www.codepolitan.com/alasan-mengapa-kamu-harus-menggunakan-framework-laravel-5a08d435ddcfb. [Diakses 28 Juni 2019].

[53] R. McLeod, Jr dan E. Jordan, Systems Development: A Project Management Approach, New York: Leigh Publishing LLC, 2002.

[54] J. Whitten dan L. Bentley, System Analysis & Design Methods: Sixth Edition, New York: Mc.Graw-Hill, 2004.

[55] R. Pressman, Rekayasa Perangkat Lunak: Pendekatan Praktisi, Yogyakarta: Penerbit Andi, 2012.

[56] J. Kendall dan K. Kendall, Analisis dan Perancangan Sistem, Jakarta: Indeks, 2010.

[57] M. A. v. d. Linden, "Black-Box Versus White-Box Security Testing," dalam *Testing Code Security*, Boca raton, Florida, Auerbach Publications Taylor & Francis Group, 2017, p. 61.

[58] Software Testing Fundamentals, "Black Box Testing," Software Testing Fundamentals, [Online]. Available: http://softwaretestingfundamentals.com/blackbox-testing/. [Diakses 1 September 2019].

[59] U. Eriksson, "Black Box vs White Box Testing Techniques – Understand the Differences," ReQtest, 18 Juni 2015. [Online]. Available: https://reqtest.com/testing-blog/black-box-testing-vs-white-box-testing/. [Diakses 1 September 2019].