DAFTAR PUSTAKA

[1]   E. D. K. C. J. Hegarty, *Understanding GPS*. 2018.

[2]   A. Muhdhor, "Efektivitas Penggunaan Aolikasi GPS (Global Positioning System) Dalam Menjangkau Lokasi Tujuan," 2020.

[3]   M. H. Vargas, "Indoor Navigation Using Bluetooth Low Energy (BLE) Beacons," p. 54, 2016.

[4]   A. F. Reza, "Simulasi Sistem Indoor Localization Di Laboratorium Telekomunikasi FTI UII Dengan Algoritma Trilateration Menggunakan Bluetooth Low Energy," Yogyakarta, 2018.

[5]   D. Nurnaningsih and A. A. Permana, "Rancangan Aplikasi Pengamanan Data Dengan Algoritma Advanced Encryption Standard (Aes)," *J. Tek. Inform.*, vol. 11, no. 2, pp. 177–186, 2018, doi: 10.15408/jti.v11i2.7811.

[6]   K. K. Kamlesh Lakhwani, Hemant Kumar, Joseph Kofi, *IoT Internet Of Things "Principles, Paradigms and Applications of IoT."* 2020.

[7]   B. B. Naveen Chilamkurti, T. Poongodi, *Blockchain, Internet of Things, and Artificial Intelligence*. 2021.

[8]   M. U.Farooq, M. Waseem, S. Mazhar, A. Khairi, and T. Kamal, "A Review on Internet of Things (IoT)," *Int. J. Comput. Appl.*, vol. 113, no. 1, pp. 1–7, 2015, doi: 10.5120/19787-1571.

[9]   J. Mier, A. Jaramillo-Alcázar, and J. J. Freire, "At a Glance: Indoor Positioning Systems Technologies and Their Applications Areas," *Adv. Intell. Syst. Comput.*, vol. 918, no. February, pp. 483–493, 2019, doi: 10.1007/978-3-030-11890-7_47.

[10] A. Aryasena, R. V. H. Ginardi, and F. Baskoro, "Perancangan Indoor Localization Menggunakan Bluetooth Untuk Pelacakan Posisi Benda di Dalam Ruangan," *J. Tek. ITS*, vol. 5, no. 2, pp. 326–330, 2016, doi: 10.12962/j23373539.v5i2.17043.

[11] S. Chan and G. Sohn, "Indoor Localization Using Wi-Fi Based Fingerprinting and Trilateration Techiques for Lbs Applications," *Int. Arch. Photogramm. Remote Sens. Spat. Inf. Sci.*, vol. XXXVIII-4/, no. June, pp. 1–5, 2012, doi: 10.5194/isprsarchives-xxxviii-4-c26-1-2012.

[12] M. Collotta and G. Pau, "A solution based on bluetooth low energy for smart home energy management," *Energies*, vol. 8, no. 10, pp. 11916–11938, 2015, doi: 10.3390/en81011916.

[13] C. Gomez, J. Oller, and J. Paradells, "Overview and evaluation of bluetooth low energy: An emerging low-power wireless technology," *Sensors (Switzerland)*, vol. 12, no. 9, pp. 11734–11753, 2012, doi: 10.3390/s120911734.

[14] E. Budiman, *Mobile Programming For Student*. 2019.

[15] C. Haase, *ANDROIDS (The Team That Built The Android Operating System)*. 2021.

[16] R. S. Hamsyah, "Rancang Bangun Aplikasi GO-BAN Untuk Mencari Dan Memanggil Teknisi Tambal Ban Menggunakan Google Maps API," 2018.

[17] E. G. Matyugina, P. V Broslavskiy, and M. V Bulygina, "Transformation of the World Market for Smartphones in the Context of Implementation Attacking Strategies by Chinese Companies," *Proc. Int. Sci. Conf. "Far East Con" (ISCFEC 2020)*, vol. 128, no. Iscfec, pp. 1997–2002, 2020, doi: 10.2991/aebmr.k.200312.277.

[18] Asiyanik, "Studi Terhadap Advanced Encryption Standard (Aes) DanAlgoritma Knapsack Dalam Pengamanan Data," *Santika*, vol. 7, no. Jurnal Ilmiah Sains dan Teknologi, pp. 553–561, 2017.

[19] S. K. s.frankel, R.Glenn, NIST, "The AES-CBC Cipher Algorithm and its use with IPsec," *2003*. https://www.ietf.org/rfc/rfc3602.txt (accessed Dec. 01, 2021).

[20] S. M. Wadi and N. Zainal, "High Definition Image Encryption Algorithm Based on AES Modification," *Wirel. Pers. Commun.*, vol. 79, no. 2, pp. 811–829, 2014, doi: 10.1007/s11277-014-1888-7.

[21] R. Primartha, "Penerapan Enkripsi Dan Dekripsi File Menggunakan Algoritma Data Encryption Standard (DES)," *J. Res. Comput. Sci. Appl. Informatics Eng. Dep. Sriwij. Univ.*, vol. 01, no. 01, pp. 1–19, 2011, doi: 10.36706/jsi.v3i2.739.

[22] E. Y. INDRASTO, "RANCANG BANGUN ALAT MONITORING KUALITAS UDARA PADA KANDANG AYAM BERBASIS WEB

MENGGUNAKAN PROTOKOL MQTT. Jurusan Teknik Elektro Fakultas Teknik Universitas Semarang. Semarang," 2019.

[23]   H. F. Pratama, "Pembangunan Sistem Pendeteksi Kebocoran Lpg Menggunakan Protokol Mqtt Pada Modul Komunikasi Lora," 2019.

[24]   E. A. W. Sanad, "Pemanfaatan Realtime Database di Platform Firebase Pada Aplikasi E-Tourism Kabupaten Nabire," *J. Penelit. Enj.*, vol. 22, no. 1, pp. 20–26, 2019, doi: 10.25042/jpe.052018.04.

[25]   M. C. Wadkar and P. P. Patil, "Traditional Infrastructure vs. Firebase Infrastructure," *Int. J. Trend Sci. Res. Dev.*, vol. Volume-2, no. Issue-4, pp. 2050–2053, 2018, doi: 10.31142/ijtsrd14550.

[26]   S. Nidhra, "Black Box and White Box Testing Techniques - A Literature Review," *Int. J. Embed. Syst. Appl.*, vol. 2, no. 2, pp. 29–50, 2012, doi: 10.5121/ijesa.2012.2204.

[27]   G. W. Setiawan, "Pengujian Perangkat Lunak Menggunakan Metode Black Box Studi Kasus Exelsa Universitas Sanata Dharma," p. 286, 2011.

[28]   Hasanul Fahmi, "Analisis Qos (Quality of Service) Pengukuran Delay, Jitter, Packet Lost Dan Throughput Untuk Mendapatkan Kualitas Kerja Radio Streaming Yang Baik," *J. Teknol. Inf. dan Komun.*, vol. 7, no. 2, pp. 98–105, 2018.

[29]   ITU-T, "G.1010: End-user multimedia QoS categories," *Int. Telecommun. Union*, vol. 1010, 2001, [Online]. Available: http://scholar.google.com.au/scholar?hl=en&q=ITU-T+Recommendation+G.1010&btnG=&as_sdt=1,5&as_sdtp=#7.