

DAFTAR PUSTAKA

- Achmadi, D. K., Rahayu, S. P., & Kurniawan, Y. I. (2022). IMPLEMENTATION OF USER INTERFACE AND USER EXPERIENCE CAR WASH SERVICE PROVIDER ANDROID BASED APPLICATION “SPOTLESS” USING DESIGN THINKING METHOD. *Jurnal Teknik Informatika (Jutif)*, 3(6), 1825–1836. <https://doi.org/10.20884/1.jutif.2022.3.6.283>
- Agus Muhyidin, M., Sulhan, M. A., & Sevtiana, A. (2020). PERANCANGAN UI/UX APLIKASI MY CIC LAYANAN INFORMASI AKADEMIK MAHASISWA MENGGUNAKAN APLIKASI FIGMA (Vol. 10, Issue 2). <https://my.cic.ac.id/>.
- Andiantoro, Y., Komala Sari, S., Ramadhani, K. N., D3, P., & Informatika, M. (n.d.). APLIKASI ZAKAT BERBASIS ANDROID.
- Andriansah, Ika Yuniva, & Putri Ayu Safitri. (2019). Aplikasi Pengolahan Zakat Berbasis Web (E-ZAKAT). *Bianglala Informatika Jurnal Komputer Dan Informatika Akademi Bina Sarana Informatika Yogyakarta*, 7. <https://doi.org/DOI:https://doi.org/10.31294/bi.v7i2.6474>
- Ariani, F., Taufik, A., Arsanti, A., & Mandiri, U. N. (2022). *Application Of Design Thinking Method For Ui And Ux Design In Ngajiyuk Application Penerapan Metode Design Thinking Untuk Perancangan UI/ UX Pada Aplikasi Ngajiyuk*. 6(2), 425–440. <https://doi.org/10.52362/jisicom.v6i2.940>
- Ayuna Sari, R., Alfarezy, R., Surya Maulana, A., & Adrezo, M. (2021). Rancangan Design Ulang UI (User Interface) Aplikasi MySmash Berbasis Android Menggunakan Metode Design Thinking. In *Seminar Nasional Mahasiswa Ilmu Komputer dan Aplikasinya (SENAMIKA) Jakarta-Indonesia*.
- Azhari, M., Perwitosari, J., & Ali, F. (2022). Implementasi Pengamanan Data pada Dokumen Menggunakan Algoritma Kriptografi Advanced Encryption Standard (AES). *Jurnal Pendidikan Sains Dan Komputer*, 2(1), 2809–476. <https://doi.org/10.47709/jpsk.v2i1.1390>
- Divva, G., Zulma, M., Seta, H. B., & Yuniati, T. (2022). Implementasi Algoritma AES Dan Bcrypt untuk Pengamanan File Dokumen. *Jurnal Informatik*.
- Dr.H.Aden Rosadi, M. A. (2019). *Zakat dan Wakaf*. www.simbiosarekatama.co.id
- Fadlullah, F., Tahir, M., Bintari, B. P., Dewi, M. L., & Ilmy, M. F. (2023). Implementasi Algoritma AES pada Autentikasi Login Sistem Informasi. In *Jurnal Bintang Pendidikan Indonesia (JUBPI)* (Vol. 1, Issue 2).
- Gronier, G., & Baudet, A. (2021). Psychometric Evaluation of the F-SUS: Creation and Validation of the French Version of the System Usability Scale. *International Journal of Human-Computer Interaction*, 37(16), 1571–1582. <https://doi.org/10.1080/10447318.2021.1898828>
- Hanief, S. (2021). MOBILE APPLICATION MULTIMEDIA INTERAKTIF FIQH ZAKAT PADA Mts GENERASI EMAS. In *Jurnal Riset Inovasi Bidang Informatika Dan Pendidikan Informatika (KERNEL)* (Vol. 2, Issue 1).

- Hasani, R. A., Resa, M., Yudianto, A., Sukmasetya, P., & Febriyanto, Y. (2022). Uji Prototype Metode Design Thinking pada penyebaran Informasi COVID-19. In *Jurnal Kajian Ilmiah* (Vol. 22, Issue 2). <http://ejournal.ubharajaya.ac.id/index.php/JKI>
- Huda, N. (2019). *IMPLEMENTASI METODE USABILITY TESTING DENGAN SYSTEM USABILITY SCALE DALAM PENILAIAN WEBSITE RS SILOAM PALEMBANG*. <https://doi.org/http://dx.doi.org/10.20527/klik.v6i1.177>
- Imron, I., Azizah, N., Nurhayati, M. S., & Wijonarko, B. (2021). Perancangan Aplikasi Mobile Zakat dan Infaq Berbasis Android Pada Baznas Kabupaten Tangerang. *Jurnal Ilmiah Universitas Batanghari Jambi*, 21(1), 197. <https://doi.org/10.33087/jiubj.v21i1.1234>
- Mujahidin, S., Reinaldy Hermawan, M., & Cahyo Utomo, C. (2023). Implementation of Automated Test Case Generation in REST API on Android-Based Koperasi Application. *Journal of Information Systems and Informatics*, 5(1), 123–133. <https://doi.org/10.51519/journalisi.v5i1.431>
- Mulud Muchamad, R., & Pambudi, A. (2023). IMPLEMENTASI ALGORITMA ADVANCED ENCRYPTION STANDARD (AES) UNTUK MENGENKRIPSI DATASTORE PADA APLIKASI BERBASIS ANDROID. In *Jurnal MNEMONIC* (Vol. 6, Issue 1). <https://issuetracker.google.com/issues/167697691>
- Mustika, L. (2020). Implementasi Algoritma AES Untuk Pengamanan Login Dan Data Customer Pada E-Commerce Berbasis Web. *JURIKOM (Jurnal Riset Komputer)*, 7(1), 148. <https://doi.org/10.30865/jurikom.v7i1.1943>
- Pamungkas, A. R., Kristono, K., & Setiarso, E. B. (2020). Aplikasi Perhitungan Zakat Berbasis Android di Badan Amil Zakat Nasional (Baznas) Kabupaten Karanganyar. *Go Infotech: Jurnal Ilmiah STMIK AUB*, 26(2), 107. <https://doi.org/10.36309/goi.v26i2.128>
- Periyanayagi, S., Manikandan, A., Muthukrishnan, M., & Ramakrishnan, M. (2021). BDoor App- Blood Donation Application using Android Studio. *Journal of Physics: Conference Series*, 1917(1). <https://doi.org/10.1088/1742-6596/1917/1/012018>
- Putri, D. A., & Ernawati, S. (2019). RANCANG BANGUN APLIKASI ZAKAT ONLINE BERBASIS WEB PADA BADAN AMIL ZAKAT NASIONAL (BAZNAS) KOTA BOGOR. *Seminar Nasional Sistem Informasi*.
- Rakhmat, E., & Fatullah, R. (2020). *Zakat Calculation System Based on Desktop Application Using Waterfall Model in Serang District Baznas*. <https://doi.org/10.2991/assehr.k.200303.022>
- Randi, A., Lazuardy, K., Chandra, S., & Dharma, A. (2020). Implementasi Algoritma Advanced Encryption Standard pada Aplikasi Chatting berbasis Android. *JIKOMSI Jurnal Ilmu Komputer Dan Sistem Informasi*, 3(2), 1–10.
- Sari, N. R., Ribab Sibilana, A., Syariah, M. K., Sayyid, U., Tulungagung, A. R., & Islam, P. A. (2022). *DESIGN AND IMPLEMENTATION OF E-LAZISNU IN ZAKAT, INFAQ, AND SEDEKAH MANGEMENT WITH ANDROID BASED*.
- Senjaya, R., Sweetania, D., Sularsih, P., & Rosemalatriasari, A. (2023). Designing UI/UX Reservation Application Savero Hotel Depok With Design Thinking Method Using Figma. *Jurnal Inovatif : Inovasi Teknologi Informasi Dan Informatika*, 6(1), 1–14. <https://doi.org/10.32832/inovatif>

- Shabrina, G., Lestari, L. A., Iqbal, B. M., & Syaifullah, D. H. (2019). Redesign of User Interface Zakat Mobile Smartphone Application with User Experience Approach. *IOP Conference Series: Materials Science and Engineering*, 505(1). <https://doi.org/10.1088/1757-899X/505/1/012088>
- Siregar, W., & Rahayu, E. (2020). DESIGN THINKING. *JITEKH*, 8(2), 50–58.
- Suzianti, A., Edrisy, F., & Mubarak, A. (2020). User Interface of Zakat Information System Redesign using Design Thinking Approach. Case Study: KNEKS. *ACM International Conference Proceeding Series*, 37–44. <https://doi.org/10.1145/3429551.3429588>
- Widodo, B. E., & Purnomo, A. S. (2020). IMPLEMENTASI ADVANCED ENCRYPTION STANDARD PADA ENKRIPSI DAN DEKRIPSI DOKUMEN RAHASIA DITINTELMAM POLDA DIY. *Jurnal Teknik Informatika (Jutif)*, 1(2), 69–77. <https://doi.org/10.20884/1.jutif.2020.1.2.21>
- Winar, S., Putra, E. R., & R., I. M. (2022). Sistem Informasi Kalkulasi Zakat Pada Kantor Baitul Mal Kabupaten Bireuen Berbasis Android. *Jurnal TIKa*, null, null. <https://doi.org/10.51179/tika.v7i3.1584>
- Wulandari, R., Nurdiansyah, F., Hasbani, M., Prasetya, A. Y., & Desyani, T. (2020). Pengujian pada Aplikasi “Kembaliin” Berbasis Mobile Application/Android dengan Metode Design Thinking. *Jurnal Informatika Universitas Pamulang*, 5(2), 182. <https://doi.org/10.32493/informatika.v5i2.5372>



LAMPIRAN

Source Code Proses Enkripsi

```
fun encrypt(strToEncrypt: String): String? {
    try {
        val iv = byteArrayOf(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)
        val ivSpec = IvParameterSpec(iv)
        val factory = SecretKeyFactory.getInstance("PBKDF2WithHmacSHA256")
        val spec: KeySpec = PBEKeySpec(BuildConfig.ENCRYPT_KEY.toCharArray(),
            BuildConfig.ENCRYPT_SALT.toByteArray(), 65536, 256)
        val tmp = factory.generateSecret(spec)
        val secretKey = SecretKeySpec(tmp.encoded, "AES")
        val cipher = Cipher.getInstance("AES/CBC/PKCS5Padding")
        cipher.init(Cipher.ENCRYPT_MODE, secretKey, ivSpec)
        return if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
            Base64.getEncoder()
                .encodeToString(cipher.doFinal(strToEncrypt.toByteArray(StandardCharsets.UTF_8)))
        } else {
            android.util.Base64.encodeToString(cipher.doFinal(strToEncrypt.toByteArray(StandardCharsets.UTF_8)), android.util.Base64.DEFAULT)
        }
    } catch (e: java.lang.Exception) {
        println("Error while encrypting: $e")
    }
    return null
}
```

Source Code Proses Dekripsi

```
fun decrypt(strToDecrypt: String?): String? {
    try {
        val iv = byteArrayOf(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)
        val ivSpec = IvParameterSpec(iv)
        val factory: SecretKeyFactory = SecretKeyFactory.getInstance("PBKDF2WithHmacSHA256")
        val spec: KeySpec = PBEKeySpec(BuildConfig.ENCRYPT_KEY.toCharArray(),
            BuildConfig.ENCRYPT_SALT.toByteArray(), 65536, 256)
        val tmp: SecretKey = factory.generateSecret(spec)
        val secretKey = SecretKeySpec(tmp.encoded, "AES")
        val cipher: Cipher = Cipher.getInstance("AES/CBC/PKCS5PADDING")
        cipher.init(Cipher.DECRYPT_MODE, secretKey, ivSpec)
        return if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
            String(cipher.doFinal(Base64.getDecoder().decode(strToDecrypt)))
        } else {
            String(cipher.doFinal(android.util.Base64.decode(strToDecrypt, android.util.Base64.DEFAULT)))
        }
    } catch (e: Exception) {
        println("Error while decrypting: $e")
    }
    return null
}
```

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Title : Implementasi Algoritma AES Dengan Metode Design Thinking Pada Pembayaran Zakat
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