

DAFTAR PUSTAKA

- [1] F. Zaky, M. Imanullah, D. Sunardi, and Muntahanah, “Analisis Tipe-tipe User Interface dalam Meningkatkan Imersivitas Video Game Sesuai Genre Videogame,” *JTIS : Journal of Technopreneurship and Information Systems*, vol. 8, no. 1, pp. 8–17, Jan. 2025.
- [2] L. Caroux, M. Delmas, M. Cahuzac, M. Ader, B. Gazagne, and A. Ravassa, “Head-Up Displays in Action Video Games: The Effects of Physical and Semantic Characteristics on Player Performance and Experience the Effects of Physical and Semantic Characteristics on Player Performance and Experience,” *Behaviour and Information Technology*, vol. 42, no. 10, pp. 1466–1486, 2023, doi: 10.1080/0144929X.2022.2081609i.
- [3] G. Mittmann, V. Zehetner, I. Krammer, and B. Schrank, “Translation, Adaptation and Validation of the German Version of the Game User Experience Satisfaction Scale (GUESS-GA-18) for Adolescents,” *Behaviour and Information Technology*, vol. 43, no. 7, pp. 1401–1415, 2024, doi: 10.1080/0144929X.2023.2212807.
- [4] W. A. Carman, “Validation of the GUESS-18 for the Usability of a Virtual Reality Racing Game,” Master’s thesis, Louisiana State University, Baton Rouge, 2022. [Online]. Available: https://repository.lsu.edu/gradschool_theses/5606
- [5] M. Malaspina, J. A. Barbato, M. Cremaschi, F. Gasparini, A. Grossi, and A. Saibene, “An Experimental Protocol to Access Immersiveness in Video Games,” in *Italian Workshop on Artificial Intelligence for Human Machine Interaction (AIxHMI2023)*, Rome, Italy: CEUR Workshop Proceedings, Oct. 2023. [Online]. Available: <http://arxiv.org/abs/2310.16431>
- [6] A. Bellino and D. Vilches, “Immersion Versus Interaction Cost: The Player Experience With Game HUD Information on a Smartphone Screen,” *IEEE Access*, vol. 13, no. 1, pp. 175746–175759, Oct. 2025, doi: 10.1109/ACCESS.2025.3619849.
- [7] R. I. Haikal, D. P. Agustino, and I. M. P. P. Wijaya, “Evaluasi User Experience pada Game Genshin Impact menggunakan Metode Cognitive Walkthrough dan Persona,” *Jurnal Sistem dan Informatika*, vol. 16, no. 1, pp. 17–25, Sep. 2021.
- [8] Y. Y. ng Ng, R. J. Nathan, and C. W. Khong, “Assessing Player Engagement in Local Indie Games: A Qualitative Study of Affective Game Design Elements,” *Entertain. Comput.*, vol. 54, no. 1, pp. 1–12, Mar. 2025, doi: 10.1016/j.entcom.2025.100945.
- [9] Y. T. Huang, C. C. Hsu, and T. H. Wang, “Effects of Interactive Loading Interfaces for Virtual Reality Game Environments on Time Perception,

- Cognitive Load, and Emotions,” *Front. Virtual Real.*, vol. 6, no. 1, pp. 1–19, May 2025, doi: 10.3389/frvir.2025.1540406.
- [10] J. Han, G. Liu, and Y. Gao, “Learners in the Metaverse: A Systematic Review on the Use of Roblox in Learning,” *Educ. Sci. (Basel)*, vol. 13, no. 3, pp. 1–23, Mar. 2023, doi: 10.3390/educsci13030296.
 - [11] K. Alhasan, K. Alhasan, and S. Al Hashimi, “Roblox in Higher Education: Opportunities, Challenges, and Future Directions for Multimedia Learning,” *International Journal of Emerging Technologies in Learning (iJET)*, vol. 18, no. 19, pp. 32–46, Aug. 2023, doi: 10.3991/ijet.v18i19.43133.
 - [12] A. Nurfitriya and T. C. Kusumandoyo, “Analisis User Experience pada Game Menggunakan Game-Design Factors Questionnaire,” *Jurnal Barik*, vol. 2, no. 3, pp. 148–162, 2021.
 - [13] L. Hikmah, D. Kurniawan, M. R. Sanjaya, and A. Rifai, “Usability Evaluation And Satisfaction Of Mobile Game Players Using SUS, GEQ, And PENS,” *Jurnal Ekonomi*, vol. 13, no. 4, pp. 1335–1347, 2024, doi: 10.54209/ekonomi.v13i04.
 - [14] L. Caroux and M. Pujol, “Player Enjoyment in Video Games: A Systematic Review and Meta-Analysis of the Effects of Game Design Choices,” *Int. J. Hum. Comput. Interact.*, vol. 40, no. 16, pp. 1–42, 2023, doi: 10.1080/10447318.2023.2210880.
 - [15] S. Wang, “The Effectiveness and Development of Game Interaction Mechanism Based on User Psychology,” in *Proceeding of ICIHCS 2025 Symposium: Integration & Boundaries: Humanities/Arts, Technology and Communication*, Shenzhen, China, Oct. 2025, pp. 20–26. doi: 10.54254/2753-7064/2025.km28458.
 - [16] M. G. Razan, P. W. Atmaja, and A. L. Nurlaili, “Gim Platformer ‘Pina Smart Adventure’ dengan Pembangkitan Level Procedural Dua Fase,” *Jurnal Informatika dan Sistem Informasi (JIFoSI)*, vol. 2, no. 2, pp. 352–360, Jul. 2021.
 - [17] U. Elistatia, S. Permatasari, and I. Permatasari, “Development of a Construct 2-Based Platformer Game: Challenges and Implementation for Players of All Ages,” *Gameology And Multimedia Expert*, vol. 1, no. 4, pp. 85–89, Oct. 2024, [Online]. Available: <http://ojs.unimal.ac.id/game>
 - [18] H. Kurniawan, M. Devegi, and V. Nofriza, “Pengembangan Game Edukasi Platformer 2D Berbasis Web dengan Metode GDLC,” *Jurnal Informatika Polinema*, vol. 11, no. 3, pp. 347–355, May 2025.
 - [19] K. Y. Zamri and H. K. Tan, “Evaluating Educational Game via User Experience (UX) and User Interface (UI) Elements,” *EDUCATUM Journal*

- of Social Sciences*, vol. 8, no. Special Issue, pp. 1–9, May 2022, doi: 10.37134/ejoss.vol8.sp.1.2022.
- [20] K. Y. Zamri, “The Effects of 10 User Interface (UI) Elements on Game Design Process,” *EDUCATUM Journal of Science, Mathematics and Technology*, vol. 9, no. 2, pp. 82–90, Nov. 2022, doi: 10.37134/ejsmt.vol9.2.11.2022.
 - [21] W. B. Prawirayudha, H. A. Effendi, I. M. P. Bimamukti, A. M. Wijaya, and S. A. Wardani, “Evaluasi User Interface pada Game Elmer & Minda Menggunakan Metode Usability Testing,” *ULIL ALBAB: Jurnal Ilmiah Multidisiplin*, vol. 1, no. 12, pp. 4460–4471, Nov. 2022.
 - [22] A. R. Hermawan, H. Tolle, and S. R. Akbar, “Desain Head-Up Display Berbasis Refleksi untuk Aplikasi Navigasi pada Mobil Menggunakan Metode Human-Centered Design,” *Jurnal Teknologi Informasi dan Ilmu Komputer*, vol. 10, no. 3, pp. 603–612, Jun. 2023, doi: 10.25126/jtiik.2023106677.
 - [23] J. Sharples, B. Williams, and S. Reeves, “Designing UI for a VR Environment: Diegetic and Non-diegetic Approaches,” in *EG UK Computer Graphics & Visual Computing*, Eurographics, 2025, pp. 1–5. doi: 10.2312/cgvc.20251207.
 - [24] C. Liu and Q. X. Qu, “Research on the Influence of Interface Visual Design Features of Mobile News on Cognitive Load: A Study of Elderly Users in China,” *Behavioral Sciences*, vol. 16, no. 32, pp. 1–25, Dec. 2025, doi: 10.3390/bs16010032.
 - [25] M. A. Faudzi, Z. C. Cob, M. Ghazali, R. Omar, and S. A. Sharudin, “User Interface Design in Mobile Learning Applications: Developing and Evaluating a Questionnaire for Measuring Learners’ Extraneous Cognitive Load,” *Heliyon*, vol. 10, no. 18, pp. 1–20, Sep. 2024, doi: 10.1016/j.heliyon.2024.e37494.
 - [26] E. P. Davis *et al.*, “Children’s Brain Development Benefits from Longer Gestation,” *Front. Psychol.*, vol. 2, no. 1, pp. 1–7, Feb. 2011, doi: 10.3389/fpsyg.2011.00001.
 - [27] J. Šereika, P. Vilkinis, and N. Pedišius, “Analysis of Cavity Corner Geometry Effect on Recirculation Zone Structure,” *Applied Sciences (Switzerland)*, vol. 12, no. 12, pp. 1–12, Jun. 2022, doi: 10.3390/app12126288.
 - [28] A. M. Bakare, K. S. M. Anbananthen, S. Muthaiyah, J. Krishnan, and S. Kannan, “Punctuation Restoration with Transformer Model on Social Media Data,” *Applied Sciences (Switzerland)*, vol. 13, no. 3, pp. 1–13, Jan. 2023, doi: 10.3390/app13031685.

- [29] S. Eshuis, K. Pozzebon, A. Allen, and L. Kannis-Dymand, "Player Experience and Enjoyment: A Preliminary Examination of Differences in Video Game Genre," *Simul. Gaming*, vol. 54, no. 2, pp. 209–220, 2023, doi: 10.1177/10468781231158818.
- [30] Z. M. Alrizki and D. Kurniawan, "GEQ and PENS Applications for Analyzing Levels of Player Experience and Satisfaction in Mobile Video Games," *Indonesian Journal of Computer Science*, vol. 13, no. 2, pp. 1883–1896, Apr. 2024.
- [31] M. Iffaturrahman and D. A. Purnamasari, "Evaluasi User Experience Game Aaron Lost in the Jungle Menggunakan Metode Game Experience Questionnaire (GEQ)," *Journal of Applied Multimedia and Networking (JAMN)*, vol. 9, no. 1, pp. 56–67, 2025, [Online]. Available: <http://jurnal.polibatam.ac.id/index.php/JAMN>
- [32] N. Badkook, D. Sinnari, and A. Almakky, "Developing Comprehensive e-Game Design Guidelines to Support Children with Language Delay: A Step-by-Step Approach with Initial Validation," *Multimodal Technologies and Interaction*, vol. 9, no. 68, pp. 1–27, Jul. 2025, doi: 10.3390/mti9070068.
- [33] O. Yolal, "Roblox Studio ile Mühendislik Eğitimi İçin Deneyim Geliştirme," *International Journal of Multidisciplinary Studies and Innovative Technologies*, vol. 6, no. 1, pp. 51–57, 2022, doi: 10.36287/ijmsit.6.1.51.
- [34] M. M. Fajri, I. Al Idrus, Y. M. Rangkuti, K. Saputra, and D. Yandra Niska, "3D Application Development with Blender and Roblox Integration: A Case Study of the North Sumatera State Museum," *Artificial Intelligence and Engineering Applications*, vol. 4, no. 2, pp. 784–789, Feb. 2025, [Online]. Available: <https://ioinformatic.org/>
- [35] A. Fauza and Yusran, "Perancangan Kampus Virtual di Lingkungan UIN Ar-Raniry Berbasis Metaverse Menggunakan Roblox Studio," *Jurnal Nasional Komputasi dan Teknologi Informasi (JNKTI)*, vol. 8, no. 1, pp. 129–137, Feb. 2025.
- [36] M. H. Phan, J. R. Keebler, and B. S. Chaparro, "The Development and Validation of the Game User Experience Satisfaction Scale (GUESS)," *Hum. Factors*, vol. 58, no. 8, pp. 1217–1247, Dec. 2016, doi: 10.1177/0018720816669646.
- [37] S. R. Fauzy, Asriyanik, and F. F. Azzahra, "Implementasi Game Development Life Cycle dalam Pembuatan Game Buana Ruh," *INDEXIA: Informatic and Computational Intelligent Journal*, vol. 5, no. 1, pp. 19–34, May 2023.
- [38] J. Junaidi, "Aplikasi Game Maze Untuk Meningkatkan Semangat Anak Usia Dini Menggunakan Metode Game Development Life Cycle (GDLC),"

Jurnal SANTI (Sistem Informasi dan Teknologi Informasi), vol. 4, no. 2, pp. 71–78, 2024.

- [39] T. Wibowo, D. A. Adnas, Mulyanto, and A. A. Marvel, “Crafting an Interactive Video Game Court System for Moral Development and Legal Insight,” *Jurnal Sistem Informasi*, vol. 7, no. 1, pp. 85–94, Jan. 2025.
- [40] M. S. Pebriad, P. Salman, and T. K. Fattah, “Implementasi Use Case Diagram dan Activity Diagram dalam Perancangan Aplikasi Kalkulator Pajak Bagi UMKM,” *Jurnal Ilmiah Multitek Indonesia*, vol. 17, no. 1, pp. 44–58, Jul. 2023, [Online]. Available: <http://journal.umpo.ac.id/index.php/multitek>
- [41] R. P. Dalka, D. Sachmpazidi, C. Henderson, and J. P. Zwolak, “Network Analysis Approach to Likert-Style Surveys,” *Physical Review D*, vol. 18, no. 2, pp. 1–15, Sep. 2022, doi: 10.1103/PhysRevPhysEducRes.18.020113.
- [42] M. A. Putri, F. V. Kuhon, and H. M. F. Palandeng, “Uji Validitas dan Reliabilitas Instrumen Penelitian: Kuesioner Pola Makan pada Penderita Gout Arthritis,” *Jurnal Kedokteran Komunitas dan Tropik*, vol. 12, no. 1, pp. 635–640, 2024.