

BAB VI

KESIMPULAN DAN SARAN

6.1 Kesimpulan

Aplikasi panggilan darurat medis untuk penderita tuna rungu telah dirancang untuk memenuhi tujuan dan tujuan penelitian ini menggunakan metode UCD. Aplikasi ini dapat dengan mudah digunakan oleh pengguna tuna rungu yang berada dalam situasi darurat. Sistem ini sesuai dengan fungsinya dan memenuhi kebutuhan pengguna dalam melakukan panggilan darurat. Hasilnya dianalisis menggunakan empat skenario peristiwa darurat dengan skor total 87% dan waktu rata-rata pengguna kurang dari 0:42 detik menunjukkan bahwa penelitian ini berhasil dalam merancang aplikasi panggilan darurat medis sesuai dengan kebutuhan pengguna.

6.2 Saran

Penelitian aplikasi panggilan darurat medis ini telah dirancang sesuai dengan kebutuhan penderita tuna rungu. Penelitian ini masih bisa berkembang dengan sangat luas pada penelitian yang akan datang. Saran yang bisa penulis berikan adalah pemberian video tutorial setelah pengguna selesai melakukan registrasi. Hal ini dimaksudkan agar pengguna bisa lebih mudah menggunakan aplikasi panggilan darurat medis

DAFTAR PUSTAKA

- Abdallah, E. E. and Fayyoubi, E. (2016) 'Assistive Technology for Deaf People Based on Android Platform', *Procedia Computer Science*. Elsevier Masson SAS, 94(Fnc), pp. 295–301. doi: 10.1016/j.procs.2016.08.044.
- Bertram, J. and Kleiner, C. (2012) 'Secure web service clients on mobile devices', *Procedia Computer Science*, 10, pp. 696–704. doi: 10.1016/j.procs.2012.06.089.
- Bhatti, G. *et al.* (2015) 'Design and evaluation of a user-centered interface to model scenarios on driving simulators', *Transportation Research Part C: Emerging Technologies*. Elsevier Ltd, 50, pp. 3–12. doi: 10.1016/j.trc.2014.09.011.
- Brunner, J. *et al.* (2017) 'User-centered design to improve clinical decision support in primary care', *International Journal of Medical Informatics*. Elsevier Ireland Ltd. doi: 10.1016/j.ijmedinf.2017.05.004.
- Cetinkaya, S. and Ryan, J. K. (2015) 'Utilizing and Testing Smart Applications in a Healthcare Environment', pp. 1572–1579.
- Gamboa-Maldonado, T. *et al.* (2012) 'Building capacity for community disaster preparedness: a call for collaboration between public environmental health and emergency preparedness and response programs.', *Journal of environmental health*, 75(2), pp. 24–9.
- Li, S. H. *et al.* (2012) 'Developing an active emergency medical service system based on WiMAX technology', *Journal of Medical Systems*, 36(5), pp. 3177–3193. doi: 10.1007/s10916-011-9809-8.
- Martins, P. *et al.* (2015) 'Accessible Options for Deaf People in e-Learning Platforms: Technology Solutions for Sign Language Translation', *Procedia Computer Science*. Elsevier Masson SAS, 67, pp. 263–272. doi: 10.1016/j.procs.2015.09.270.
- Mattheiss, E. *et al.* (2017) 'User-centred design with visually impaired pupils: A case study of a game editor for orientation and mobility training', *International Journal of Child-Computer Interaction*. Elsevier B.V., 11, pp. 12–18. doi: 10.1016/j.ijcci.2016.11.001.

- Multisilta, J. (2014) 'Mobile panoramic video applications for learning', *Education and Information Technologies*, 19(3), pp. 655–666. doi: 10.1007/s10639-013-9282-8.
- Ong, B. N. *et al.* (2012) 'Barriers and facilitators to using 9-1-1 and emergency medical services in a limited English proficiency Chinese community', *Journal of Immigrant and Minority Health*, 14(2), pp. 307–313. doi: 10.1007/s10903-011-9449-6.
- Paredes, H. *et al.* (2014) 'SOSPhone: A mobile application for emergency calls', *Universal Access in the Information Society*, 13(3), pp. 277–290. doi: 10.1007/s10209-013-0318-z.
- Ramadhan, R. and Dayan (2015) *Pengembangan Dan Analisis Kualitas Aplikasi Mobile School Maps (Moomaps) Berbasis Mobile Application Untuk Pemetaan*.
- Robi'in, B. (2016) *Multimedia Mobile Application Design Learning Indonesian For Children With Hearing Loss*. Universitas Atma Jaya Yogyakarta.
- Schnall, R. *et al.* (2016) 'A user-centered model for designing consumer mobile health (mHealth) applications (apps)', *Journal of Biomedical Informatics*. Elsevier Inc., 60, pp. 243–251. doi: 10.1016/j.jbi.2016.02.002.
- Schreuder, M. *et al.* (2013) 'User-centered design in the brain-computer interfaces-A case study', *Artificial Intelligence in Medicine*. Elsevier B.V., 59(2), pp. 71–80. doi: 10.1016/j.artmed.2013.07.005.
- Silva, B. M. C. *et al.* (2014) 'Towards a cooperative security system for mobile-health applications', *Electronic Commerce Research*, (1). doi: 10.1007/s10660-014-9171-2.
- Subramaniam, C., Ali, H. and Mohd Shamsudin, F. (2012) 'Initial emergency response performance of firefighters in Malaysia', *International Journal of Public Sector Management*, 25(1), pp. 64–73. doi: 10.1108/09513551211200294.
- Suyoto, Prasetyaningrum, T. and Gregorius, R. M. (2011) *Design and Implementation of Mobile Leadership with Interactive Multimedia Approach, Multimedia, Computer Graphics and Broadcasting*. Edited by E.

T. Kim. Springer, Berlin, Heidelberg. doi: https://doi.org/10.1007/978-3-642-27204-2_27.

Vallières, F. *et al.* (2013) ‘Supporting & Strengthening maternal, neonatal, and child health services using mobile phones in Sierra Leone: A Research Protocol’, *Harvard Africa Policy Journal*, 8, pp. 46–51.

Wardana, L. A. (2017) ‘Design Mobile Application of Marriage Counseling on the Catholic Church with UCD and Wireframe Method’, *International Journal of u- and e- Service, Science and Technology*, 10(1), pp. 153–162.

