

# Classification of The Different Technologies, Functions and Usability of Blood and Organ Donating Applications – A Review

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**Abstract.** Blood and organ donation is a critical healthcare requirement in Sri Lanka. The one and only way are to take another matching person's blood and give them to the required person. When it comes to organ donations, modern scientists try to make artificial organs. But there are not highly recommended and the cost for those is very high. The most practical and present practising way is taking another matching person's organ and transplanting it to the patient. Because of this reason in present society, there is so much organ trafficking. There are various kinds of blood and organ donation applications that are helping to increase the well-being of human life. But most people are not aware, and they are scared to use these kinds of applications. Therefore, this review study contains technologies of that kind of system, their features, and usability, and the aim of this review is to make a brief classification among those technologies, functions, and usability of the blood donation applications. The main objective of this review study is to support the developers to find suitable technology for the further development the blood donation applications. This research study followed the currently progressing applications and proposed systems that have not been implemented yet. Selected applications represent different regions; some have used the same technology and combined several technologies. Applications are reviewed critically according to these aspects. According to the researchers' blood donation applications need security, and they need to be highly reliable in every situation. Also, the interfaces should be user-friendly. The data gathering has to be reliable. The matching of the blood groups has to be reliable.

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