

ABSTRACT

Ease of internet access, as shown by the Central Statistics Agency (BPS) with an increase in internet users in the elderly group by 1.58% in the 2015 to 2019 range of 7.94%. The data shows the enthusiasm of the elderly group in using internet products such as the Beramaljariyah.org website. Beramaljariyah.org is a website-based application that has the goal of being a forum for humanitarian social activities that are operated online. The main activities in the application include infak, waqf, and zakat activities. Beramaljariyah.org has been registered with the Social Service and already has a registration sign for the electronic system operator to be able to raise funds through the website address www.beramaljariyah.org. The target user is focused on the elderly group users. The elderly group is known to have decreased vision to decreased cognitive abilities. However, it seems that the Beramaljariyah.org website has not been able to reach elderly users as one of its target users. This is shown from the results of the accessibility evaluation on the web using the WAVE tools, there are several errors. The error indicates a mismatch of accessibility to the WCAG standard by the WAVE tools. Based on these problems, it is necessary to design a prototype user interface (UI) accompanied by an appropriate user experience (UX) analysis based on the needs of elderly users, especially on the home page, registers, and transactions using the inclusive design method. The inclusive design method will help improve the accessibility of users who interact on the website display with the help of guidelines from WCAG 2.1. The results of this research phase are in the form of a website prototype which is a proposal for a website design solution for Beramaljariyah.org. Not only evaluating using WAVE, but in testing, it also involves users with SEQ assessments. The prototype is considered acceptable by elderly users, especially on the home page, registers, and transactions, by getting the SEQ assessment test results on a scale of 6.6 (easy) then the results of SUS with a score of 75.5.

Keywords—inclusive design, WCAG 2.1, user interface, user experience, Beramaljariyah.org