

UNIVERSITI TEKNOLOGI MARA

**ARABIC LANGUAGE E-LEARNING
COURSEWARE (ALEC) ACCESSIBILITY
DESIGN MODEL FOR ELDERLY AT
AL-MADINAH INTERNATIONAL UNIVERSITY
(MEDIU)**

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ABSTRACT

E-learning course should be accessible to all users include the user with disabilities, the aging population such as elderly, and those who use English as their second language. Accessible e-learning will ensure that those users will get an equivalent and similar learning experience and knowledge to that of non-disabled learners. The W3C Web Accessibility Initiative (WAI) has been established to raise awareness of universal access. WAI develops guidelines which can help to ensure that Web pages are widely accessible. This research was conducted to study how WCAG 2.0 principles guidelines can be implemented into e-learning environment which is Arabic Language E-learning Courseware (ALEC) for the elderly. The term elderly can be define as "old age" which consists of ages nearing or surpassing the average life span of human beings, and thus the end of the human life cycle. Old people have limited regenerative abilities and are more prone to disease, syndromes, and sickness than younger adults. Arabic Language E-learning Courseware (ALEC) application acts as learning and teaching tools to the students age 50-65 at Al-Madinah International University. The methodology was design based on Rapid Prototyping model and act as a guideline on how to complete the project. Only one of the principles has been chosen from WCAG 2.0 involved in mapping it into Arabic Language E-learning Courseware (ALEC) for the elderly. The principle is understandable which contains the guideline of readable, predictable and input assistance.

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