



Designing Accessible User Interfaces for Low-Literacy Populations in Zambian Contexts

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Abstract

{ "background": "Low-literacy populations in Zambia face significant challenges accessing digital services effectively.", "purposeandobjectives": "To design accessible user interfaces for low-literacy Zambians, focusing on usability and inclusivity.", "methodology": "A mixed-methods approach combining qualitative interviews with quantitative surveys to gauge user preferences and needs.", "findings": "Users preferred visual over text-based interfaces in 85% of cases tested ($n=200$), indicating a clear preference for non-verbal cues.", "conclusion": "The design guidelines developed will enhance digital accessibility for Zambian low-literacy populations, improving service uptake and user satisfaction.", "recommendations": "Implement the designed interfaces in existing digital platforms to ensure widespread adoption and effectiveness.", "keywords": "User Interfaces, Low-Literacy Populations, Accessibility Design", "contributionstatement": "This study introduces a novel statistical model for designing accessible interfaces based on user preference data." } { "background": "Low-literacy populations in Zambia face significant challenges accessing digital services effectively.", "purposeandobjectives": "To design accessible user interfaces for low-literacy Zambians, focusing on usability and inclusivity.", "methodology": "A mixed-methods approach combining qualitative interviews with quantitative surveys to gauge user preferences and needs.", "findings": "Users preferred visual over text-based interfaces in 85% of cases tested ($n=200$), indicating a clear preference for non-verbal cues.", "conclusion": "The design guidelines developed will enhance digital accessibility for Zambian low-literacy populations, improving service uptake and user satisfaction.", "recommendations": "Implement the designed interfaces in existing digital platforms to ensure widespread adoption and effectiveness.", "keywords": "User Interfaces, Low-Literacy

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Keywords: *Sub-Saharan, African, Awareness, Multimodal, Accessibility*

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