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A Mobile Web Application for Learning Outcome Evaluation: Analysis and Design of Teacher and Student Interfaces (Conference Paper)

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Abstract

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Learning outcome has become the goal of student's learning in 21st education. It not only helps direct the instructional structure but also determine how students will be. In existing learning situations, the teachers have encountered the difficulty of evaluating these learning outcomes; therefore, how students achieve could not be represented according to the specified competencies. However, before developing a mobile application to help teachers evaluate the learning outcome, this study conducted an analysis and design of teacher and student interfaces by considering the user experience and user interface design theories. The user research has initially been investigated for enabling the best user experience over the interface design. The prototype of this study has been designed as a mobile web application for evaluating students' learning competence in a case of physical therapy education. The final prototype has been evaluated by students and teachers on design, attitude, and satisfaction; moreover, the performance of prototyping was tested. The findings of this study reveal the positive results of the prototype, which can be further developed as a final mobile web application. © 2018 IEEE.

SciVal Topic Prominence

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Indexed keywords

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Engineering uncontrolled terms: Learning outcome Learning situation Mobile applications Mobile Learning Mobile user experiences Mobile web applications Outcome-based education User interface designs

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