

MOBILE DEVICE SUPPORTED ONLINE EXAMINATION SYSTEM APPROPRIATE TO DISTANCE LEARNING

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Abstract

In modern life information technology has entered into almost every area of people's daily lives and become an important and undeniable part of business, educational and personal life. Thus, technological innovations that became widespread in political, economic, institutional and cultural fields are also being widespread in the educational field. Until recently the existing technical shortcomings, the problems of real-time operation of systems, the difficulty and expensiveness of providing the necessary system were making it almost impossible to apply these technological innovations to education and examination systems.

At the present day, studying in various schools and courses in order to fulfill the needs of life, improve ourselves and our lives is essential for us. Eventually exams are administered in various ways to measure people's level of education, practical and theoretical knowledge and abilities. In traditional education system, trainers and learners should adapt to each other in terms of time and venue and they have to fit in the same place at the same time. This particularly leaves learners in the lurch in their personal life and force them education priority scheduling. Despite this situation, it makes impossible to receive training for working people and people with disabilities and also makes it difficult for learners to develop themselves.

Web-based learning and online examination systems are able to deliver the required web content to user on all devices with web browsers such as desktop computers, tablet computers and even some televisions. Because of high sales and maintenance fees, deficiency of existing properties on fulfilling the needs of the institution, inability of adding new features of commercial systems make it disadvantageous to use them. In the open source systems, obligation for institution to pay to developer company for eliminating the problems that may occur in using process, insufficiency of technical documentation and difficulties on developing a software for these reasons, these systems are also not preferred. The goal of our work is to develop an institution-specific, user-friendly web-based online examination system that minimizes operating costs, allows institution to add new features easily by expert teams, meets the needs of the institution, integrates the current learning management system. We have developed our application in accordance with the requirements of the Distance Learning Center of Kirikkale University using the contemporary software (Asp.NET MVC5, Angular JS, Bootstrap, Microsoft SQL Server 2014) techniques.

Keywords: Online Examination, Distance Learning, Web-based Examination, Learning Management System.