



SDSU
presents
MS Computer Science
THESIS DEFENSE

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Online Quiz System

Abstract

OnlineQuizSystem is an intelligent prototype developed as a multiple choice question examination system which is built as a Web based application scalable to run on both intranet and internet. OnlineQuizSystem is intelligent enough and equipped with a level of automation to guide the students to get proficiency/become subject matter experts by taking the tests. OnlineQuizSystem will help the university, to establish a collaborative online exam environment to conduct quiz/tests for their regular, as well as distant students, in an effective manner. It facilitates a user-friendly environment and reduces manual intervention as well as time. The core underlying automation of the OnlineQuizSystem will generates questions and options on the fly basis and captures the answers from students into the database. It ensures that students will have the Mock Tests for practice, and can get the results displayed in their panel. The OnlineQuizSystem is designed for three major roles. Those are:

- ✓ An administrator who controls all the level of roles and creates the tests.
- ✓ An instructor should be able to create test questions and manage tests.
- ✓ A student who is an end user for the tests.

The main objective of the OnlineQuizSystem is to efficiently evaluate the student using a fully automated system that not only saves a lot of time but also gives fast results. Technologies used to develop this website are HTML, CSS, and JavaScript for client side validation, C# & ASP.NET for dynamic content update. Microsoft SQL Server is used as a data base server for this application. The system has been seeded with about 300 questions that would allow generation of multiple choice questions of tester selected topics from an undergraduate class in relational databases. Grading can be done immediately, for student practice purposes, or if the exam is given simultaneously to student of a class, grading can be delayed until everyone is done with the quiz. Another salient features of Online Quiz system is the support for templated question formats. The main advantage of templated questions are, during an assessment each student will receive different questions based on same concept. This helps faculty to avoid any malpractices.

Thesis Committee

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