Web-based-secure online non-choice –based examination system (wones) using cryptography

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Abstract

Web based Online Non-choice-based Examination System (WONES) is an effective solution for mass education evaluation. WONES ensures transactions between the examination server and the candidates by employing special authentication protocols. This paper proposes an enhanced secured online exam management environment by using Biometric Authentication and One Time Authentication Code (OTAC) by Trusted Third Party monitoring... A novel feature of the system is its support for formulae and graph input which makes it suitable for non-choice based examinations. There are also a library of comparators which evaluate the difference between the encoded correct answer and the candidate response using heuristic rules. Index Terms—online exam, secure exam management, the real-time-monitoring system, biometric finger print system, cryptographic protocols.