

Research on Cybersecurity Education and Vulnerability Awareness in Educational Ecosystems

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Abstract

In the context of an abrupt migration of all daily activities towards online systems, due to the pandemic phenomenon and the long-delayed and dimmed investment in a national cybersecurity strategy, pupils, teachers and students alike were caught unprepared in an ominous and intricate environment. Due to the current context, the prevalence of medium- and high-complexity attacks has visibly increased, unveiling a need to research the level of awareness in the cybersecurity field for all parties included in the educational ecosystem: pupils, students, teachers and parents. This paper aims to gather inside information on their security education level by collecting and analyzing statistics related to the vulnerability awareness of all aforementioned stakeholders. Based on the results, mitigation plans will be proposed for each individual category, in corroboration with the most poignant problems and needs. The goal is to provide the necessary level of education for a safe and secure learning environment where future adults can focus on their evolutionary growth.

Keywords: cybersecurity education, security awareness, safe and secure educational ecosystem

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