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DEVELOPMENT OF AN ELECTRONIC EDUCATIONAL AND METHODOLOGICAL COMPLEX FOR THE DISCIPLINE «COMPUTER ARCHITECTURE AND OPERATING SYSTEMS»

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This research aims to design and develop an electronic educational and methodological complex (EEMC) tailored to teaching computer architecture and operating systems to elementary school students in China. The study will focus on creating a user-friendly platform with an intuitive interface, incorporating visual and interactive elements to enhance student engagement and comprehension. Key objectives of the research include: to analyze the current state of computer science education in Chinese elementary schools – this will involve examining the existing curriculum, teaching methods and challenges faced by both teachers and students. To design an EEMC tailored to young learners – the EEMC will be developed using age-appropriate content and an intuitive interface

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to ensure ease of use. To test and evaluate the effectiveness of the EEMC – the study will conduct pilot tests in selected schools, gathering feedback from teachers and students to refine the platform and assess its impact on learning outcomes.

The significance of this research lies in its potential to revolutionize computer science education at the elementary level in China. By providing a structured and interactive learning environment, the EEMC can bridge the gap between theoretical knowledge and practical application, equipping young learners with foundational skills that are essential for future academic and professional success. Furthermore, the insights gained from this study can serve as a model for the development of similar educational platforms in other subjects and regions, contributing to the broader goal of modernizing education through digital innovation.

In conclusion, the development of an EEMC for computer architecture and operating systems represents a critical step toward enhancing computer science education in China's elementary schools. By combining theoretical knowledge with interactive learning tools, the EEMC can address the limitations of traditional teaching methods and provide young learners with a deeper understanding of how computers function. This research seeks to demonstrate that early exposure to computer science, supported by modern educational tools, can foster a generation of technologically literate and innovative thinkers.

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