

## PROBLEMS OF TEACHING SCHOOL CHILDREN AND STUDENTS THE DEVELOPMENT OF MOBILE APPLICATIONS

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**Abstract.** The integration of mobile applications into various aspects of our daily lives has highlighted the importance of equipping schoolchildren and students with the skills to create these applications. This article explores the challenges faced in teaching mobile application development in the context of continuous education. The discussion encompasses pedagogical strategies, technological barriers, and the need for a holistic approach to foster a conducive learning environment.

**Keywords:** pupils, students, mobile applications, continuous education.

The surge in mobile technology has transformed the way we interact with information and services, making mobile application development a crucial skill for the future workforce. This article aims to identify and address challenges associated with teaching schoolchildren and students to create mobile applications in the context of continuous education.

The rapid integration of mobile applications into various facets of our daily lives underscores the critical importance of equipping schoolchildren and students with the skills necessary for mobile application development. As technological landscapes evolve, the demand for proficient mobile app developers continues to grow. To address this demand, educational systems must adapt and provide effective training programs within the framework of lifelong education. This introduction delves into the challenges faced in training the next generation of mobile app developers, emphasizing the need for innovative solutions within the context of continuous education [1-4].

The ubiquity of mobile devices and the increasing reliance on mobile applications across various domains have underscored the need to equip schoolchildren and students with the skills essential for mobile application development. Central to this training is the cultivation of programming expertise and algorithmic thinking, crucial components that empower individuals to create innovative and functional mobile applications [5]. This introduction provides an overview of the significance of

mobile application development education and emphasizes the pivotal roles of programming and algorithmic thinking in shaping proficient developers [6].

Teaching mobile application development presents unique pedagogical challenges. Traditional teaching methods may struggle to keep pace with rapidly evolving technologies. The need for dynamic, project-based learning approaches is essential to engage students effectively. Moreover, educators must balance theoretical knowledge with hands-on experience to ensure a comprehensive understanding of mobile application development.

The rapidly changing landscape of mobile application development tools and frameworks can be overwhelming for both educators and learners. Outdated infrastructure, limited access to relevant technologies, and a lack of standardization in development environments contribute to the technological barriers. Addressing these challenges requires continuous professional development for educators and ensuring that educational institutions are equipped with the latest tools [Dinh].

To effectively teach mobile application development, a holistic approach is necessary. This involves collaboration between educational institutions, industry stakeholders, and policymakers to design a curriculum that aligns with industry needs. Internship programs, mentorship opportunities, and industry partnerships can provide students with real-world experience and bridge the gap between academic knowledge and practical skills.

Teaching schoolchildren and students to create mobile applications within the framework of continuous education requires addressing pedagogical, technological, and collaborative challenges. A holistic approach that integrates industry perspectives, hands-on experiences, and dynamic teaching methodologies is crucial for preparing the next generation of developers. By understanding and overcoming these challenges, educators can ensure that students are well-equipped to navigate the evolving landscape of mobile application development.

#### **References:**

1. Tokhirov F. J. Problems of Developing Students' Algorithmic Thinking about Programming // "ONLINE-CONFERENCES" PLATFORM. – 2021. – C. 169-170.
2. Jamoliddinovich T. F. Methodology of developing algorithmic thinking of students on programming in higher educational institutions // Berlin Studies Transnational Journal of Science and Humanities. – 2022. – T. 2. – №. 1.5 Pedagogical sciences.

3. Jamoliddinovich T. F. Algorithmic Thinking of Students in Program using Electronic Learning Resources Principles in Development //Kresna Social Science and Humanities Research. – 2022. – T. 3. – C. 93-94.
4. Toxirov F.J., O'ktamova R.K. HOW TO CREATE AND USE ELECTRONIC EDUCATIONAL RESOURCES FOR THE DEVELOPMENT OF STUDENTS'PROGRAMMING ALGORITHMIC THINKING //Results of National Scientific Research International Journal. – 2023. – T. 2. – №. 7. – C. 5-13.
5. Dinh H. T. et al. A survey of mobile cloud computing: architecture, applications, and approaches //Wireless communications and mobile computing. – 2013. – T. 13. – №. 18. – C. 1587-1611. <https://doi.org/10.1002/wcm.1203>.
6. Mushtaq Z. et al. Mobile Application Development: Issues and Challenges //International Research Journal of Engineering and Technology on. – 2016. – C. 1096-1099.