**ABSTRACT** 

Mathematics is often regarded as one of the subjects that is difficult and less appealing

to students in Indonesia. This perception leads to low interest and proficiency among students

in solving mathematical problems. This study aims to integrate technology favored by the

current generation, specifically Virtual Reality (VR), into mathematics education. The hope is

that this approach can increase student interest and reduce the negative stigma associated with

mathematics. The scope of this research is limited to the use of VR technology as a medium in

education.

The research proposes a solution by implementing the Game Development Life Cycle

as a method to assist in the development process of this educational game. The development

process of this application includes design, implementation, and testing. The specifications of

this game application are based on technical and educational aspects, including object design,

symbolic Artificial Intelligence implementation, sound design, and interest in subject learning.

Verification was conducted against the specified criteria to analyze performance and ensure

the application meets the established specifications.

The percentage index from the beta testing phase of this research reached 94.6%. This

result indicates that the application falls into the "Highly Accepted" category based on the

established feasibility criteria. Furthermore, during the alpha testing phase, the features of the

application performed well. Feedback from respondents also indicated satisfaction with the

application and interest in the implementation of VR technology in mathematics education.

Overall, the findings of this research support that integrating VR technology into mathematics

education can enhance student interest in learning mathematics.

Keywords: Mathematics, Virtual Reality, Educational Games, Technology.

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