ABSTRACT

DEVELOPMENT OF SNAKE GAME APLICATION

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Snake game that was developed is the development of the snake game is very familiar and popular on mobile phones some time ago. Based on the literature study snake game that limited his debut with some square box moving on a green background. Snake itself has existed since the late 1970's through the arcade, the game is a game that started the golden age of video games that began in the decade of the '70s. Snake game itself has experienced the largest player in the achievement of a cell phone based on Guines record a few years ago, but now after doing research based on research, interviews, and questionnaires fan of this snake game is reduced due to several things like the simplicity of the method and the flow of the game, the appearance of color, lack of varied types of bait, as well as control a snake that is not combinekey.

*Snake game application development to be a solution to overcome these problems. Development refers to the conventional game snake game that has evolution. Software engineering methods used in its development is the object-oriented approach with UML 2.0 as Kakas documentation. Reverse engineering at an early stage, then went on to make the evolution of the gameplay, look and variation. Of the technical evolution made them by applying AI A * (star), collision detection and reaction algorithm. AI is that there will be applied to some entities that exist on the snake game AI matches later in accordance with it.*

After going through the stages of development in accordance with the method chosen, then the implementation phase carried out. After that, the testing phase consists of testing performed by the method of alpha and beta testing white box and black box with a questionnaire technique to the lovers of the game snake. Based on the results of testing has been done can be concluded that the overall application going as expected. The game application development can improve the interest of the snake game lovers there.

Key words: *Game Aplication, Snake Game,* Gas Atar, *AI A * (star), Reaction Algorithm, Collision detection*