

ABSTRACT

The things that become obstacles in implementing education in early childhood are the limitations of learning media and the constraints for teachers or teachers in delivering learning material visually and flexibly so that it can be understood by students. The same thing happened to the teachers at PAUD Almalia School. Teachers at Almalia School have difficulty providing props that can visualize material, especially in the teaching and learning process of the solar system. Therefore, to make it easier for teachers to provide teaching aids in the teaching and learning process, a learning medium was created in the form of a PC-based two-dimensional interactive animation learning application (Personal Computer) to study the solar system. This learning animation combines audio, video animation, pictures and music in explaining the solar system for students aged 3-4 years. 2D animation in this application is available on the Learning Menu and consists of 3 main features, namely the planet recognition feature, the planet's original shape feature and the planet's detailed information feature. In addition, this application is also equipped with hadith and prayer menus to explain prayers or the arguments of the Koran that are relevant to the subject matter on the Learning Menu. The software used in making this two-dimensional interactive animation is Adobe Illustrator for graphic editing, Adobe After Effects as an animation and audio editing maker, and Unity for application development. Based on research, literature study, and interviews that have been conducted, the design and manufacture of applications is carried out using the Godfrey method or known as the MDLC method. Testing of two-dimensional interactive animation learning applications was carried out using the blackbox method and the User Acceptance Test using a questionnaire. This test is carried out on users, namely teachers at Almalia School. The results of this test show that 82% of respondents answered strongly agree that 2D animation in this application is interactive and interesting, and can help and make it easier for teachers or teachers of Playgroup B class in teaching and learning activities at Almalia School.

Keyword: two-dimensional interactive animation, godfrey method, learning media, solar system