

FRACTION QUIZ: AN ANDROID GAME ABOUT FRACTION

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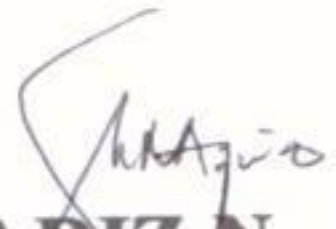
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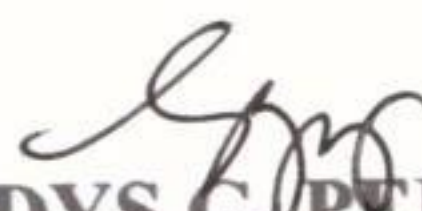
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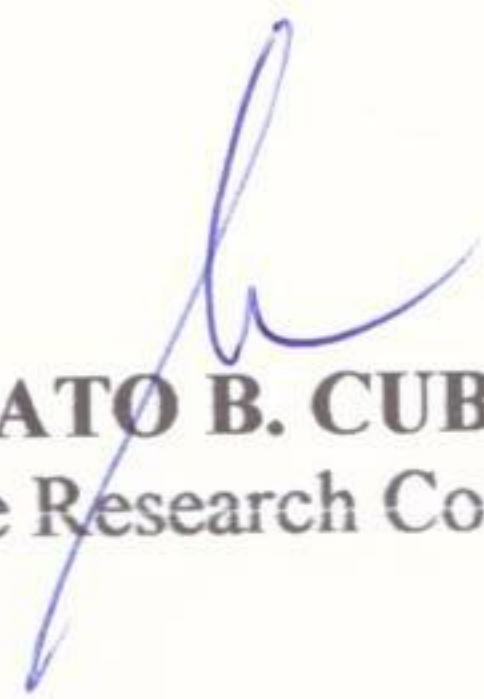
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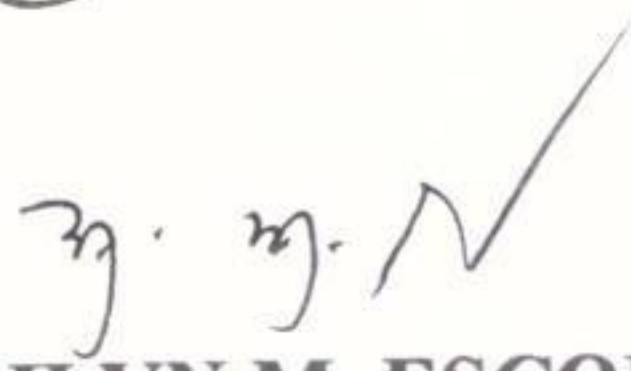
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ABSTRACT

ASIS, CARL ADRIAN T. and BALINO, DHAREN B. Fraction Quiz: An Android Game About Fraction. Undergraduate Thesis. Bachelor of Science in Information Technology. Cavite State University-Indang Campus, Indang Cavite. May 2017. Adviser: Ms. Vanessa G. Coronado.

The study was conducted on February 2016 to April 2017 in Cavite State University – Main Campus, Indang Cavite, General Alona Elementary School, General Trias City, Cavite and Paradahan Elementary School, Tanza Cavite.

The android application has a simple pattern on how to play this game. This application aims to encourage users to learn fraction. It contains set of topics to learn and play and it helps them for practicing, so that, fraction can't be intimidating to students whose having hard time in learning.

The Agile model was applied to construct the application. Windows 10 64-Bit Operating System and 1.60 GHz; 4.00 GB of RAM; 500 GB of hard disk space.

The software that was used in developing the system includes: Construct 2 as programming language, Adobe Photoshop CS6 for image editor, and Microsoft Word 2010 for documentation.

The developed application was evaluated using two kinds of questionnaires which were adapted by ISO 9126: technical and non-technical questionnaires. 100 respondents answered the non-technical questionnaires to measure its functionality, reliability, usability, and user-friendliness and have overall rating of excellent in terms of functionality (4.39), reliability (4.40), usability (4.38), and user-friendliness (4.37). 10 IT experts evaluated the developed application using the technical questionnaires to measure its functionality, reliability, usability, efficiency, maintainability, portability, and user-

friendliness and have overall rating of excellent in terms of functionality (4.80), reliability (4.53), usability (4.67), efficiency (4.57), maintainability (4.63), portability (4.70), and user-friendliness (4.70).

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