Desarrollo de una aplicación para dispositivos móviles destinada a geometría (Matemáticas II) [

2019

text (article)

Analítica

In this article, a group of mathematical tools are presented for the section of geometry, oriented to the subject of Mathematics II of second of Bachillerato for mobiles and Tablets application that is called GeoBac. We have to take into account that the use of mobile phones is widely extended among people between 12 and 18 years old nowadays, which allow us to transform it into a potential academic tool. The innovative part of this project is that the tools that were developed will give solutions to systematic calculations and it will allow users to visualize the relative positions of the elements mentioned in the contents section. The programing language chosen for this app is C# and the graphics engine chosen is Unity3D to accomplish the objectives. Throughout this article, the different tools will be briefly described and it will reflect how to use them and what solutions it provides. As a general idea the application will have a main menu with a series of buttons leading to the independently working tools. Each tool will have a group of input data according to the problem which it is designed for and a group of output data which will be the solution for the problem. Finally, a questionnaire was given to a group of students of 2nd of bachillerato and a second questionnaire was sent to some teachers from different secondary schools of the Valencian Community with the aim of obtaining information about the interface and the performance of the application

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