Sistema Notificacions Android per a Aules Moodle

Vidal Joven Montull

**Resum** — Actualment, l’ús de les noves tecnologies en l’àmbit educatiu s’ha vist incrementat gràcies a tots els avantatges que ha aportat a tots els sectors de la comunitat educativa. Una d’aquestes avantatges és el fet de poder fer arribar als usuaris finals, alumnes i professors, tota la informació que desitgen amb un moviment senzill, obrir el dispositiu mòbil. Basant-nos en aquesta idea s’ha portat a terme aquest projecte.

L’aplicació respon a la necessitat de tenir una eina que permeti amb molta facilitat a l’usuari saber la nota obtinguda en l’entrega d’una tasca en els Sistemas d’Aules Moodle.

AppNotify, és l’aplicació fruit de la realització d’aquest treball final de Grau, la qual permetrà als alumnes rebre les notificacions, que es produeixin en les retroaccions per part dels professors en la qualificació de les entregues realitzades, en els seus dipositius Android.

La motivació del projecte va ser millorar la idea original de l’aplicactiu natiu de Moodle, de tal manera que l’alumne sàpigues de primera mà quina ha set la seva qualificació en l’entrega realitzada, sense la necessitat d’entrar a l’Aula Moodle.

**Paraules Clau** — Moodle, Notificacions Push, Android, qualificacions, alumnes, professors.

**Abstract —** CurrentlyThe use of new technologies in education has been increased thanks to everyone who has contributed benefits to all sectors of the educational community. One of these advantages is being able to reach end users, students and teachers, all the information you want with a simple movement, open the mobile device. Based on this idea has been carried out this project.

The application responds to the need for a tool that allows the user to very easily find the mark obtained in the delivery of work in Moodle Classroom Systems.

AppNotify, the application is the result of the completion of this final level, which will allow students to receive notifications that occur in feedback mechanisms by teachers in grade deliveries made in its Android dipositius .

The motivation of the project was to improve the original idea aplicactiu native Moodle, so that students know firsthand what their qualifications are set in the delivery done without the need to enter the Moodle classroom

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**Index Term — Moodle, Notificacions Push, Android, qualificacions, alumnes, professors.**

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# 1 Introduction

L’

Objectiu del present article és presentar la solució per a la implementació d’una aplicació per a rebre les notificacions que es produeixen en les Aules Moodle[xxx] dels alumnes com a resposta a les necessitats que aquets han mostrar en l’estudi realitzat.

En l’actualitat podem trobar al mercat diverses varietats d’aplicacions que faciliten la tasca als alumnes, en podem trobar algun exemple més endavant, però cap ofereix una solució exacte pel problema que s’ha plantejat com a base del projecte, oferir a l’alumne una notificació personalitzada, molt més ùtil que les actuals.

Per tant des de l’ànalisis del problema, les necessitats i altres factors es presentarà una solució aplicada en un cas concret i específic.

La motivació d’aquest projecte era crear una aplicació alternativa a l’actual aplicatiu que hi ha sobre l’antic Campus Virtual i sobre l’actual aplicació nativa de Moodle, ja que l’any vinent l’antic Campus serà obsolet i es realitzarà una migració a les Aules Moodle.

* 1. **OBJECTIUS**

L’objectiu principal del treball és poder crear un sistema propi de Notificacions Push[xxx] per a poder rebre les qualificacions de les tasques entregades en les Aules Moodle. Per a la realització del projecte haurem de implementar diferents entorns sobre els quals treballarà l’aplicatiu:

* Entorn Servidor: Serà l’encarregat de connectar l’aplicació amb Google Cloud Message (GCM) [xxx]. Aquest servei serà l’encarregat d’enviar les notificacions als usuaris.
* Entorn Client: Format per l’aplicació Android, donarà la informació necessària de l’usuari al servidor per tal de poder-la tractar i enviar les notificacions.

Es pot obtenir una visión més detallada dels objectius observant l’arbre d’objectius en l’apendix A1. Arbre d’Objectius.

# 2 Estat de l’art

## 2.1 Review Stage

Detailed submission guidelines can be found on the author resources Web pages. Author resource guidelines are specific to each journal, so please be sure to refer to the correct journal when seeking information. All authors are responsible for understanding these guidelines before submitting their manuscript. For further information on both submission guidelines, authors are strongly encouraged to refer to <http://www.computer.org/portal/web/peerreviewjournals/author>.

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Fig. 1. Magnetization as a function of applied field. Note that “Fig.” is abbreviated. There is a period after the figure number, followed by one space. It is good practice to briefly explain the significance of the figure in the caption.

Figure axis labels are often a source of confusion. Use words rather than symbols. As an example, write the quantity “Magnetization,” or “Magnetization *M*,” not just “*M*.” Put units in parentheses. Do not label axes only with units. As in Fig. 1, for example, write “Magnetization (A/m)” or “Magnetization (Am−1),” not just “A/m.” Do not label axes with a ratio of quantities and units. For example, write “Temperature (K),” not “Temperature/K.” Table 1 shows some examples of units of measure.

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TABLE 1  
Units for Magnetic Properties



Statements that serve as captions for the entire table do not need footnote letters.

aGaussian units are the same as cgs emu for magnetostatics; Mx = maxwell, G = gauss, Oe = oersted; Wb = weber, V = volt, s = second, T = tesla, m = meter, A = ampere, J = joule, kg = kilogram, H = henry.

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2. Items will be punctuated as sentences where it is appropriate.
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**Theorem 1.** *Theorems, corollaries, lemmas, and related structures follow this format. They do not need to be numbered, but are generally numbered sequentially.*

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**Acknowledgment**

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