

6-27-2017

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Recommended Citation

Zein, Rana; Lababidi, Hani; and Dimashkieh, Maysoun, "Exploring the use of social networking tools among Lebanese students" (2017). *All Works*. 1618.

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Exploring the use of social networking tools among Lebanese students

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Suggested Citation:

Zein, R., Lababidi, H. & Dimashkieh, M. (2017). Exploring the use of social networking tools among Lebanese students *Global Journal of Information Technology: Emerging Technologies*. 7(1), 196-205.

Received November 21,2016; revised January 16, 2017; accepted April 10, 2017.

Selection and peer review under responsibility of Prof. Dr. Dogan Ibrahim, Near East University, Cyprus.

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Abstract

During the last decade, Social Networking (SN) tools have become increasingly popular and are now an important part of our daily lives. SN tools can be brought into the classroom to bear on some of the challenges the faculty face in enabling students to succeed in their education. This study explores various SN tools used by high school students in Lebanon. It gives insight into students' suggestions and ideas for various formal learning tasks using SN tools that might be beneficial for teaching and learning. Lebanese students were found to use SN applications in their daily lives extensively, for communication, socialization and various formats of formal and informal learning. The most widely used app was the WhatsApp Instant Messenger.

Keywords: social networking tools, formal learning, informal learning.

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1. Introduction

As technology is altering our lives in a rapid way, students do not only seek out information from the web but also have the potential to communicate, share and produce information (Solomon & Shrum, 2007). Social Networking (SN) tools are defined as a set of software applications that allow users to interact and collaborate together online (Leslie & Landon, 2007). This study answers the following research questions:

1. How often and for what purposes do students use SN tools at home and at school?
2. Which type of formal learning activities do students prefer to implement with various SN tools?

2. The Study and the Methodology

This study was conducted among Lebanese students in grades from 10 to 12. A questionnaire and two focus group interviews were administered in two urban high schools in Lebanon. The questionnaire was a modification of a survey developed initially by Saeed and Yang (Saeed & Yang, 2008). The questionnaire was piloted on a group of five students and customized to fit the Lebanese students' language needs.

The aim of the questionnaire was to collect data on the students' use of SN tools, as well as their current knowledge and preferences. The questionnaire consisted of three sections; user's demographics, current uses of SN tools and user's learning preferences. The SN tools included in this study were; Blog, Wiki, Podcast /Vodcast (YouTube), Instant Messenger (WhatsApp Messenger), Facebook and E-mail.

The questionnaire utilized a combination of closed, open-ended and Likert scale questions. From the two hundred and fifteen students in the sample, only one hundred and twenty-five completed the questionnaire, a response rate of 58 %.

Frequency and numerical tables were generated to analyze which SN tools the students were using the most, their preferences for formal and informal learning tasks and their suggestions for future formal learning activities.

Qualitative data was also collected from two focus group interviews of five students each. The following semi-structured interview questions were discussed:

- a. What are your current uses of SN tools in formal and informal learning?
- b. What are the advantages and disadvantages of using SN tools in teaching and learning?

Why have you used certain tools over others in specific learning tasks? Explain your choice.

3. Findings and Analysis of Findings

3.1 Research Question (1) "How often and for what purposes do students use SN tools at home and at school?"

3.1.1 Quantitative Research Findings: Results from the Survey Questionnaire

One hundred and twenty-five students out of two hundred and fifteen students provided completed data. All the one hundred and twenty-five students surveyed had computers and Internet connections at home. All of them were using the Internet at home for at least 4 hours/week; 60% were using it from 5 to 25 hours/week, while 20% were using it for more than 25 hours/week.

However, a big gap was found when comparing home-time to school-time Internet usage. All the students were found to use it for less than 4 hours/week at school. Moreover, 100% of the students used a desktop or laptop audio player; 72% had access to an audio player using a mobile phone and 50% were using tablets. These high percentages of audio player use present a potential for the future integration of podcasting and mobile technology (including mobiles, laptops and tablets) in teaching and learning. When asked about the SN tools mostly used, the students ranked WhatsApp Instant Messenger (IM) and WhatsApp Calls as their first choice; Skype, Viber and Tango as their 2nd choice; Facebook as their 3rd choice, whilst Wiki and Blogs were their last choice.

All students had experience of E-mail, Facebook, IM and Wiki. The highest percentages, and the oldest tools known by students for more than two years, were; E-mail (76%), followed by Facebook (60%) and IM (50%); Blog, Wiki and Podcast/Vodcast were the newest tools to be used by the students. E-mail, Facebook and IM were used by all the students during the last two years. Students were less experienced in using Blog, Wiki, Podcast and Vodcast. Only 5% of the students surveyed didn't have any experience with Blogs.

There were variations in the frequencies and duration of time spent on different SN tools. IM and Facebook were the most frequently used, ranging from 1-3 hours/week to more than 10 hours/week. Blogs and Wikis were less frequently used at school, as compared to home. The majority of students noted using Blogs and Wikis for more than 1-2 hours/week. Blogs and Wikis were found to be used more at home than at school. Teachers in class formally used Blogs and Wikis, whilst the remaining tools were either not used by teachers (like Facebook or IM) or occasionally used as needed (like E-mail and Podcast/Vodcast).

The comparison of use between Blog and Wiki is presented in Table 1; the main uses were for group collaboration (56% for Wikis vs. 52% for Blogs), self-learning (56% for Wikis, vs. 54% for Blogs) and shared editing (44% for Wikis vs. 40% for Blogs). These results show the importance of Blogs and Wikis, not only in individual self-learning but also for group collaboration.

Table 1. "Best features of Blog and Wiki "

Blogs	Wikis			
	N	%	N	%
a) Online journaling / personal blogging	10	8	3	2
b) shared editing	50	40	55	<u>44</u>
c) social contacts / socializing	8	6	5	4
d) group collaboration	65	<u>52</u>	70	<u>56</u>
e) ideas and information sharing	43	<u>34</u>	45	<u>36</u>
f) self-promotion /marketing yourself	3	2		0
g) self-learning	67	<u>54</u>	70	<u>56</u>
h) other (please specify below)		0		0
Total	246	196	248	198

Survey Question: What is the best feature of Blogs and Wikis?

WhatsApp IM and Facebook were by far the most preferred means of social communication among students when compared to E-mail, Blogs and Wiki. Table 2 presents the comparison of SN purpose of use for the students surveyed. This illustrates the high interest in socialization behind the use of these tools and the ease of the audio/video/text formats in WhatsApp IM and Facebook, when compared to Email, Blog and Wiki.

The results emphasized the use of Blog and Wiki in promoting independent learning, as a self-learning tool; 57% and 58%, in the first place, and as collaboration tools in the second place; 70% and 75%, respectively. On the other hand, Facebook, WhatsApp IM and Email were used extensively in informal learning, through group collaboration and problem solving.

Table 2 Comparison between the purposes of various SN uses

	WhatsApp	Facebook	Email	Blog	Wiki
Communicate with family & friends	<u>100%</u>	<u>100%</u>	100%	-	-
Make social contacts	<u>90%</u>	<u>100%</u>	54%	8%	6%
Text chat	<u>100%</u>	<u>100%</u>	-	-	-
Self-promotion / self-marketing	40%	44%	70%	0%	0%
Education/ self-learning	50%	40%	40%	57%	58%
Entertainment	60%	54%	14%	-	-
Text/picture/ audio/video sharing	<u>100%</u>	<u>90%</u>	14%	-	-
Group collaboration	70%	70%	-	70%	75%
Ideas and information sharing	<u>100%</u>	66%	-	36%	38%
Group study / problem solving	<u>100%</u>	<u>100%</u>	8%	-	-
Online journaling/personal blogging	-	-	-	10%	5%
Shared editing	-	-	-	50%	60%

Survey Question: For what ends do you use the following SN tools the most? (Choose as many as you like)

3.1.2 Qualitative Research Findings: Results from the Focus Group Interviews

During the focus group interviews, the students declared having a class Facebook page for daily collaboration on homework and discussion about difficult lessons. They also used the Facebook page to post classwork for absent students and revision sheets before tests. In addition, some students had a group with their close friends on WhatsApp, to share learning materials, complemented by the use of Voice-over IP applications, such as Skype, Viber or Tango. Moreover, students said in the interviews that some high achievers were very helpful, active and popular online.

When asked about the disadvantages of these tools, all the students agreed that these SN tools might be a waste of time, if overused, and may hinder their learning, if not controlled. *“Time limit has to be set for their uses. I was not sitting anymore with my family”*, claimed a student in the interview. Another one said, *“My parents were not happy to see me on the computer all the time.”* Self-regulation and responsible use of these tools were critical issues to be maintained (Zein, 2014). It could be argued that this social aspect might be a distraction for the students’ learning. However, Rovai (2002) suggested that, within a learning community, students need to feel connected to each other and it may be that the virtual ‘chat’ that occurred helped the students develop a sense of acceptance, belonging and recognition, as part of the learning community. This sense of belonging to a learning community and an equal democratic voice appeared in a student's comment during the interview when she answered, *“These tools gave us extra communication with all the class students at the same level, whereas normally I communicate only with my close friends. Sometimes I wished to communicate with some classmates but I did not want to be seen as running behind them. It opened all the class students to each other; it tightened the students' belonging to the class.”* Another student mentioned that a minimum positive face-to-face encounter with his teacher and students in the classroom is a prerequisite for effective online communication.

According to students, SN communication facilitated informal discussion and learning, anytime and anywhere. A student said, *“You need to be connected and you can chat, socialize, share pictures, videos, audios at night or during the day wherever you are, very easily and quickly. It is amazing!”* Communication is not only limited to text messages; it can be done with picture, video or audio messages, which makes it more attractive, practical and real. Moreover, a student said that these tools were advantageous for shy students who usually fear talking publicly in class. Zemsky and Massy (2004) argued that the aspects of SN for entertainment, social interaction and communication seemed much more interesting to students than the more traditional educational approaches. Vaidhyanathan

(2008) also declared that students use SN tools, such as MySpace and Facebook, for their ease, socialization and fun aspects, rather than because they are learning tools. During the interview, a student claimed that, *"The affordable cost of these technologies is encouraging us to use them. We don't need to ask for money from our parents"*. The low cost and easy use of various communication means might explain the students' motivation behind their extensive utilization.

In the focus group interview, a student noted that only Blogs and Wikis were used most in formal learning because teachers were utilizing them in class. Moreover, SN tools support collaborative activities, which allow for knowledge sharing and communicating, reflection and debate (Hiler, 2002; Zein, 2015b). During the focus group interview, when asked to comment on the type of collaboration, a student said, *"I like to share my work with my friends and to have their feedback. My friends corrected my mistakes before my teacher saw my answers. They helped me a lot. It is good to work in groups to solve our homework or do a group assignment."*

As noted, these three most-used tools emphasized informal learning through collaboration, group work, sharing information and, most importantly, the independent learning issue. However, communication and socialization represented the most targeted activities, compared to the formal and informal learning ones.

When asked during the focus group interviews, the reasons behind the popularity of WhatsApp over the remaining SN tools as shown in the quantitative data analysis, the answers were as follows:

(1) the ease of use, because it does not need a username and password, like Facebook, Email, Blog and Wiki; (2) the ease in manipulating and creating text/audio/video/picture messages; (3) its low cost; it is sufficient to have an Internet connection on your mobile; (4) its interface is more adapted to cell-phones than all the other tools; (5) its mobility; WhatsApp is available on a cell-phone, carried anywhere by students all day; (this is not the case where the other devices, such as tablets, laptops and desktops, are needed); (6) WhatsApp introduced free telephone calls, thus overpassing Skype, Viber, Tango and any voice-over IP applications found in the Lebanese market; (7) historically speaking, WhatsApp appeared in the Lebanese market before Viber and Tango so people are acquainted with using it and most of the students are satisfied with it; (8) until now, Skype, Viber and Tango do not have better features.

The main disadvantages of using WhatsApp were: (1) impracticality at editing messages; (2) the sequential appearance of messages and an inability to organize and archive information in an effective manner, to be utilized later on; (3) difficulties in reading or manipulating large text messages or files; however, very practical in displaying, using or creating video or audio files; (5) lack of ownership, as you can only see the last sender of the message.

As a conclusion, students were found to be motivated and using SN tools extensively, for both socializing and informal learning whilst only Email, Blog and Wiki were used for formal learning, in a limited way, because teachers were using these tools in class. The ease of technology, the variety of means (text/audio/video), the practicality (anywhere, anytime), and the low cost, were behind this extensive use. Moreover, the popularity of WhatsApp Messenger has increased over all the other SN tools, for reasons such as ease of use, practicality and mobility.

3.2 Research Question (2): *"What are the students' preferences for SN uses in the learning process?"*

The data collected from the questionnaire and the focus group interview showed the preferences for these tools regarding various learning tasks, which are: revision of lectures online; online study group discussion; submission of group assignments; online class discussion with the teacher; online individual learning discussion with a classmate and receiving assignments online from the teacher.

3.2.1 Quantitative Research Findings: Results from the Survey Questionnaire

The survey asked the students for their preferences in multiple learning tasks. The scale used for their choice preferences ranged from 1, for the mostly preferred, to 6, for the least preferred. The preference numbers were added for the 125 students' answers, thus the smallest sum showed the higher preferences for the students, whilst the largest value showed the lower preferences.

Table 3 Students' preferences for the revision of lectures online

Item	Total	Order
Watching Vodcast (video) of the lecture	365	1
Listening to Podcast (audio) of the lecture	392	2
Going through the lecture slides	410	3
Talking to my peers on Skype	417	4
Discussing it with my peers using text chat on IM	487	5
Discussing it on the unit blog	592	6

Survey Question: I prefer to revise lecture online using ...

Table 3 indicates that the highest preferences of the students for revising a lecture was through Vodcast, 365, closely followed by Podcast, 392, whilst Blog showed the least preference, 592.

Table 4 Students' preferences for online group study discussion

	Total	Order
audio conference	440	4
video conference	535	5
Email	552	6
IM	380	3
Blog/wiki	365	2
Facebook	352	1

Survey Question: I prefer to have online group study discussion through
 Most preferred 1 2 3 4 5 6 Least preferred

In Table 4, the sentence, "I prefer to have an online group study discussion through..." had a total value of 352 for Facebook, closely followed by a total of 365 for Blogs and Wikis, and 380 for IM. This presented the importance of Facebook, Blog, Wiki and IM as communication tools, with classmates having a group discussion. Email had the lowest preference in online group discussion. This emphasizes the many-to-many forms of communication.

Table 5 Students' preferences in submitting group assignments to teacher

	Total	Order
as a Podcast presentation	455	5
as a Vodcast presentation	427	3

through Email	445	4
through unit Blog or Wiki	370	1
through IM	542	6
through Facebook	377	2

Survey Question: I prefer to submit online a group assignment to a teacher using
 Most preferred 1 2 3 4 5 6 Least preferred

When observing Table 5 from the survey, Blog and Wiki were found to have the highest preferences between the selected SN tools for submitting online group assignments to the teachers, with a total of 370 points. Facebook came next, with a total of 377. This indicates the students' preferences for group assignment submissions to the teachers through these tools. This emphasized the close educational preference between Facebook and Blog/Wiki for group work submission.

Tables 4 and 5 showed Facebook, Blog and Wiki had the highest preferences between the selected SN tools. This fact highlighted that many-to-many communication was mostly present in study group work and collaboration. Additionally, these tables indicated that Email, Podcast and Vodcast have a potential in collaboration and group work, whereas IM presented the lowest preference for group work activities, where students have to collaborate on a common learning task.

Table 6 Students' preferences for an online class discussion with the teacher

	Total	Order
audio conference	382	2
video conference	367	1
Email	540	6
IM	437	4
Blog/Wiki	425	3
Facebook	465	5

Survey Question: I prefer to have an online class discussion with the teacher through...
 Most preferred 1 2 3 4 5 6 Least preferred

Table 7 Students preferences for an online learning discussion with a classmate

	Total	Order
audio conference	370	2
video conference	347	1
Email	535	6
IM	382	3
Blog/Wiki	475	4
Facebook	515	5

Survey Question: I prefer to have an online learning discussion with a classmate through
 Most preferred 1 2 3 4 5 6 Least preferred

Observing Tables 6 and 7, video conferencing had the highest preference for "I prefer to have an online class discussion with the teacher through..." and "I prefer to have an online learning discussion with a classmate through..." with, respectively, 367 and 347, whilst audio conferencing had 382 and 370, respectively, for the same learning tasks. The first learning task emphasized one-to-many

communication, whilst the second one emphasized one-to-one communication. However, Email and Facebook, in Tables 6 and 7 were found to have the lowest preferences for the last two learning activities.

Table 8 Students' preferences for getting coursework online from teacher

	Total	Order
audio conference	480	5
video conference	500	6
Email	387	2
IM	450	4
Blog/Wiki	375	1
Facebook	432	3

Survey question: I prefer to get coursework online from the teacher through...

Most preferred 1 2 3 4 5 6 Least preferred

In addition, the students gave Blog/Wiki 375 and Email 387, which are the highest preferences in Table 8, as a way to receive assignments online from the teacher or as one-to-many communication.

3.2.2 Qualitative Research Findings: Results from the Focus Group Interviews

During the focus group interview, when asked about the reasons why the students preferred Vodcast/Podcast for revising a lecture (Table 3), they said that they were audio recording or videotaping teachers' lectures, or taking photos of the blackboard, after getting their teacher's approval.

Facebook was more popular than IM for online group study discussion (Table 4) because, as a student explained in the focus group interview, "Facebook is more practical than IM in managing or sharing large files or messages".

When the researcher questioned about the motivation behind the preference for submitting a group assignment online to the teacher (Table 5), a student clarified, 'We can have a full archiving of the different stages of the assignment easily manageable which is not found in other SN tools. Moreover, we know who did what in the assignment'. Another student said that, 'Student contribution is shown individually. So, if a student did not contribute, he or she will not have any posts. This public posting was motivating students to work.'

Furthermore, when asked about their preferences on submitting a group assignment online to the teacher through Blog and Wiki (Table 5), some students claimed that Blog and Wiki's environment does not involve a student's personal life; therefore, it's less distracting and educationally more focused than Facebook.

A student explained that Blog and Wiki are better than IM in editing messages; "Modifying large information is not very practical with IM". Technical limitations in the features might hinder the use of certain SN tools, at the expense of other ones.

During the group interview, a student explained that video and audio conferencing are more interactive because you can see and/or listen to your interlocutor when having an online class discussion with the teacher (Table 6) or having an online learning discussion with a classmate (Table 7). He said, "You can see the facial expression and the reaction of your interlocutor. This issue is not present in text communication as Email, Facebook, Blog and Wiki." Students suggested during the interview that, although they prefer Facebook for many learning tasks, it has an inconvenience; their

private life, their friendship and their social relationships are interfering with their learning, therefore, it is a source of distraction. Students have to be responsible and self-regulated in the online environment. During the interview, the students raised another concern. They might criticize their teachers on their Facebook class page. Adding their teacher or a school representative onto their SN page might limit their freedom of expression.

Both audio conference 480 and video conference 500 got the lowest preference for receiving coursework online from the teacher (Table 8). A student claimed in the interview that they preferred to have printed assignments, rather than audio or video ones. Another student suggested that they had never thought of having an assignment on video or audio and he might be interested in receiving assignments in audio or video formats. Finally, IM 450 was found to have a moderate value in getting coursework online, due to a practicality issue, as one student explained, "*WhatsApp screen is small for reading or editing large information*".

Triangulating data from focus group interviews and surveys clearly shows the high potential of these SN tools as useful for anyplace, anytime collaboration, as one-to-one, one-to-many and, notably, many-to-many communication channels for both formal and informal learning. Students showed a preference for multimedia communications over texting ones. However, the negative impact of socialization on learning tasks was of concern when the students were not self-regulated and responsible in the SN environment.

4. Conclusion

Although the Lebanese school curriculum supports technology integration, a gap between school and home practice was found in the use of the Internet and SN tools. All SN tools were found to be used extensively by the students at home; however, only Emails, Blogs and Wikis were moderately integrated into various subject matters at school. All SN tools were utilized extensively for socialization and communication purposes; they were used in both formal and informal learning, with an emphasis on informal learning. Moreover, SN tools were used for individual, small group or class group learning (Zein & Majdalani, 2012). The popularity of SN tools resides in the easy manipulation of the various types of data, such as text, picture, audio and video. Also, it resides in the anytime, anywhere practicality and at an affordable cost for high school students. WhatsApp was the most popular tool utilized by students. Facebook was found to be very beneficial for most of the learning tasks; however, interference with the students' private lives in the learning process was of concern. Schools should update their curriculum and create meaningful learning experiences in implementing SN tools. Rules and regulations regarding its ethical use in the online SN environment have to be taken into consideration. Both schools and parents need to be aware of how to support their children in regulating their online presence (Zein, 2015a). As a limitation, this study was undertaken with one hundred and twenty five students from two private schools in Lebanon. In order to make for generalization, it has to be repeated with a bigger sample from both private and public sectors, with more in-depth study of other popular SN tools, such as Skype, Snapchat, Instagram, Viber and Tango, and to find more ways to implement them efficiently in teaching and learning.

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