Mobile Multimedia Health Applications and Their Potential Impact on the Human Population

ABSTRACT

- Mobile applications have become prevalent in every facet of human life from communication through social media and email to entertainment by watching videos and playing games.
- It is without a doubt that the majority of people, especially those from the Western world, have access to a smartphone. The aforementioned statement is supported by statistics from the Pew Research Center which indicated that in the year 2018, a whopping 95% of Americans possessed a cellphone and 77% of Americans owned a smartphone.
- In regard to just smartphone statistics, the percentage of users has more than doubled in the last five years.

EXISTING SYSTEM

- The possibilities that exist for health-related applications are endless so it is no wonder why they are growing this rapidly in popularity and usage. These types of applications allow its users to do a plethora of useful things such as maintaining a log of their diet and even save their life by alerting authorities if their heart rate goes above a certain threshold.
- Evidently, health apps can provide countless benefits to individuals, communities, as well as organizations. As the popularity of and dependency on mobile health applications grows, however, so do the questions behind the usage of them.
- Mobile healthcare applications are on the rise as considerably more healthcare professionals adopt them for clinical practices.

CONTINUE

- This demand has created a need for medical software applications to not only assist patients, but healthcare providers alike.
- These types of applications are part of what is referred to as the eHealth (Electronic Health) ecosystem that primarily focuses on providing these patients and healthcare providers with a wide variety of services.
- Patients require on- demand access to their personal health records, general services, and medical information as well as reminders for their medication and appointments.

PROPOSED SYSTEM

- The obstacles that face the potential spread of multimedia health applications are multi-pronged and complex in the ways they should be addressed.
- To briefly reiterate the issues and inadequacies: one facet is the lack of proper information dissemination, another being the need for more rigorous regulations on application producers in regards to false advertisement as well as product exaggerations, and finally the relative scarcity of cellphone and smartphone usage overall in developing countries.

CONTINUE

- Due to the importance of consumer awareness in regards to health applications, the first issue pertaining to multimedia health applications can be addressed quite simply through active and conspicuous propagation of information.
- The survey revealed uncertainties concerning health related applications and wearable technology revealed. Based on these results, the paper provides suggestions for the mobile health applications to reach their full, wide-spread potential and be able to positively impact the well-being of the entirety of the human population.

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java /DOTNET
- Database : Mysql/HEIDISQL

CONCLUSION

- The potential that health related mobile applications have is astoundingly limitless and is inarguable something that all technology users should be able to take full advantage of without hesitation.
- Health applications have the ability to provide many services to its users such as measure their heart rate, log the daily amount of sleep they are getting, and even deliver reminders for appointments and medication.
- These features are not only convenient, but have been proven on multiple occasions to be a source of encouragement for better personal health and sometimes genuinely life saving.

REFERENCE

[1] Pew Research Center: Internet, Science & Tech, “Mobile Fact Sheet”, February 5, 2018. Available:http://www.pewinternet.org/factsheet/mobile/ , accessed March 24, 2018.

[2] P. Krebs and D. T. Duncan, “Health App Use Among US Mobile Phone Owners: A National Survey”, JMIR mHealth and uHealth, November, 4, 2015. Available: http://mhealth.jmir.org/2015/4/e101/ , accessed March 24, 2018.

[3] Athenahealth, “Mobile Health Apps | Knowledge Hub”, June 10, 2017. Available: https://www.athenahealth.com/knowledgehub/mobile-health-technology/apps , accessed March 24, 2018.

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[4] C. L. Ventola, “Mobile Devices and Apps for Health Care Professionals: Uses and Benefits”, Pharmacy and Therapeutics, May 2014, 39(5): 356–364. Available: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4029126/#sec1title , accessed March 24, 2018.

[5] M. D. I. Husain, “Top 10 downloaded iPhone health app can cause significant patient harm” , iMedicalApps, July 14, 2014. Available: https://www.imedicalapps.com/2014/07/iphone-health-app-patientharm/ , accessed March 24, 2018.