A Simple Face-based Mobile Security System Design for Android Phone Protection

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 161
Number 11

Year of Publication: 2017

Authors:
Alabi A. A., Ogundoyin I. K.

10.5120/ijca2017913233

Abstract

The advent and use of mobile phones have added a lot to the world’s social lives as technology keeps evolving on a daily basis but also face a bit of challenges such as info theft, misrepresentation, impersonation etc. with a view to causing mayhem; a scenario that calls for a more secured mode of phone access for protection sake. A unit of functionality provided by the system was demonstrated with the aid of a Use-Case diagram and the procedural flow of control between the various class objects involved was illustrated using the Activity diagram. The code was written in JAVA on a platform called “Android Visual Studio” and the required tools and Texts were built with the aid of the Android In-built Controls; which generate their own codes when utilized thus providing the needed field for entering E-mail and some other required parameters. The design was made in such a way that security info was sent to a designated Email for necessary action whenever an illegal attempt is noticed on the mobile phone. The expected intruder’s face captured and the registered phone location due to the provision of incorrect security codes (while attempting to log in on the phone) were sent to the phone’s rightful owner inform of alert via a preset Email. This research guaranteed privacy in addition to
exposing intruders no matter their motives. It also educates the masses with the basic knowledge of privacy, protection from unauthorized access and the core importance of mobile phones security.

References

5. L. Peruso, K. Michael and M. Michael, “Location-Based Services and The Privacy-Security Dichotomy”, School of Information Technology and computer Science Faculty of Informatics, University of Wollongong, Northfields Avenue, Wollongong, NSW, 2500, Australia, 2006.
Index Terms

Computer Science  Security

Keywords

Security, Face, Mobile Applications, Android Phones, Java Programming