MOBILE QURAN APP SECURITY VULNERABILITIES

By: Talib, S; Talib, Shuhaili; Mahmud, M; Rahman, ES; Rahman, EM; Songib, AS; Abubakar, A

PROCEEDINGS OF THE 5TH INTERNATIONAL CONFERENCE ON COMPUTING & INFORMATICS
Edited by: Jamaludin, Z; ChePa, N; Ishak, WHW; Zaibon, SB
Book Series: Proceedings of the International Conference on Computing & Informatics
Pages: 447-455
Published: 2015
Document Type: Proceedings Paper

Abstract

The security threats and vulnerabilities of mobile Quran applications can be viewed from both developers’ and a service perspective. Similar to other apps categories like entertainment apps, games apps, banking apps and many others, understanding the threats and vulnerabilities of mobile Quran apps and the ways to manage them is crucial. With regard to the rapid transformation of many services and transactions onto mobile platforms, the security awareness of these becomes very important. Developers are responsible for ensuring that they have the necessary tools they need to build secure mobile apps which will secure and protect end user privacy and ensure reliable service delivery. Mobile Quran apps that provide features for enabling reading the Quran and interacting with other add ons prolific events, like an easy and fast surah index list, efficient search features and many more need to be protected. Any attempt that could compromise the originality of the content of the Quran which is built for mobile apps needs to be identified. Unfortunately the security vulnerabilities within these features that convey the contents of the Quran are not clear, and there is a lack of noticeable security threats and vulnerabilities from previous studies. This paper examine the category of mobile Quran app and investigates its security threats and vulnerabilities. The outcome indicates measures to ensure that end users get the mobile Quran apps they need without compromising their privacy.

Keywords

Author Keywords: mobile Quran apps; threat; security vulnerabilities

Author Information

Reprint Address: Talib, S (reprint author)

Addresses:

Email Addresses: shuhail@iium.edu.my; murni@iium.edu.my; emiliasarahman@gmail.com; suraya.arrayyan@gmail.com; adamu@iium.edu.my

Publisher

UNIVUTARI MALAYSIA-IUM, COLL ARTS & SCI, INFOR TECHNOL BLDG, SINTOK, KEDAH 06010, MALAYSIA

Categories / Classification

Research Areas: Computer Science
Web of Science Categories: Computer Science, Artificial Intelligence; Computer Science, Information Systems; Computer Science, Theory & Methods

See more data fields
## Cited References: 24

Showing 24 of 24  
View All in Cited References page  
(from Web of Science Core Collection)

1. **Retrieving and analyzing mobile apps feature requests from online reviews**  
   By: Claudia, I.; Harrison, R.  
   10 IEEE WORK CMN S Published: 2013

2. **Building a mobile application development framework**  
   By: Doolittle, J.; Moohan, I. A.; Simpson, J.; et al.  
   Intel Whitepaper Published: 2012  
   Available online Retrieved February 20th, 2015  

3. **Developing a mobile app for remote access to and data analysis of spectra**  
   By: Evans, Matthew J.; Clemens, Graeme; Casey, Christopher; et al.  
   VIBRATIONAL SPECTROSCOPY Volume: 72 Pages: 37-43 Published: MAY 2014

4. **An Expert-based Framework for Evaluating iOS Application Usability**  
   By: Fatih, N.; Desharnais, J.-M.; Abran, A.  
   P INT WORKSH SOFTW M Published: 2013  
   2013 Joint Conference of the 23rd

5. **Developing a Conceptual Framework for Mobile Services**  
   By: Heinonen, K.; Pura, M.  
   P HELS MOB ROUNDT HE Published: 2006

6. **Intentions to use mobile services: Antecedents and cross-service comparisons**  
   By: Herbjorn, N.; Pedersen, P. E.; Thorbjornsen, H.  
   Journal of the academy of marketing science Volume: 33 Issue: 3 Pages: 330-346 Published: 2015

7. **Implementation and evaluation of SDS-PAGE image analysis on a mobile app**  
   By: Jakkrit, J.  
   INT C COMP SCIENT C Published: 2014

8. **Iterative process models for mobile application systems: a framework**  
   By: Kemper, G. G.; Wall, E.  
   P INT C INF SYST Pages: 401-413 Published: 2002  
   Paper 37

9. **Title: [not available]**  
   By: KETCHEN DJ  
   RES METHODOLOGY STRA Published: 2006

10. **The Holy Quran Digitization: Challenges and Concerns**  
    By: Khan, M. K.; Alginahi, Y. M.  
    Life Science Journal Volume: 10 Published: 2013

11. **Mobile Library Service in Key Chinese Academic Libraries**  
    By: Li, Aiguo  
    JOURNAL OF ACADEMIC LIBRARIANSHIP Volume: 39 Issue: 3 Pages: 223-226 Published: MAY 2013

12. **Improvements in dental care using a new mobile app with cloud services**  
    By: Lin, Chia-Yung; Peng, Kang-Lin; Chen, Ji.; et al.  
    JOURNAL OF THE FORMOSAN MEDICAL ASSOCIATION Volume: 113 Issue: 10 Pages: 742-749 Published: OCT 2014