

TOWARDS IMPROVING SECURITY FOR MOBILE BANKING IN SRI LANKA

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ABSTRACT

In mobile banking schemes, financial services are available. Bankingservices are provided using mobile devices. Mobile phones are used for data used in carrying out mobile transactions via mobile applications. This paper describes the security check processfor improving the authentication of mobile applications for mobile banking in a bank in Srilanka. The mobile banking in a bank in Sri Lankawill be used as case study. The application includes security features to enhance data protection across mobile networks. Features for data encryption, integrity, secure entry of security details on the phone and improved security policies in the application server are incorporated. Issuesof data confidentiality, user authentication, and message integrity in order to provide end-to-end security of data carried on mobile networks is ensured. In particular, this project specifies theinclusion of a biometric component in the security authentication process in mobile banking in Srilanka. This is in a bit to improve the security platform. The paper only presents the general architecture of the proposedmobile app model, which includes the biometric security component, towards subsequent implementation.

KEYWORDS: *Mobile Application, Mobile Banking, Mobile Application Models, Biometrics, Mobile Phones*

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