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Security and Privacy of app Permissions on Mobile eServices

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Eservice provider depends much on mobile app user's data to market their services, to gauge their business growth and compare notes with competitors among many other factors. This paper uses analytical approach to discusses issues that come with the installation and usage of mobile eservice apps on Android devices and how app permissions threaten the security and privacy of users through collecting data and information. This paper was based on the following objectives; to identify security and privacy lapses on eservices, to propose a framework for eservices based on apps permission and user involvement in their development and to discuss and analyze the security and privacy of each app permission on the usage of mobile eservices. To achieve the objectives, using Google play store, different eservice apps were identified, such as mobile banking, ehealth apps among other that have impact on group or individual privacy, a framework was designed to show how app developers and eservice providers can involve users during app development and adoption, app permissions were grouped in sets and analysis was made on each app permission set based on popularity given on Google play store for android eservice apps. The analysis showed that eservice users do not understand the use of app permission and they fear for their security and privacy.

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