Software Development for Mobile Devices

Submission for Assignment A8.1P

File Security

There are three places to store data in Android: 1. internal storage, external storage and content providers.

Internal Storage

By default, every file that saved in this storage are not able to access by other apps (Security tips 2018). Thus, internal storage is a good place to store a private data of the app without allow the user to access it. However, when the user uninstalls the app, all of the data will be removed as well.

External Storage

This storage allows the user to access and manipulate the data within it. It can be used to store images, videos so that the user can see even when the app is uninstalled. It also provides additional space for Internal Storage if need, nevertheless the files which store on it are world readable and can be accessed by other apps.

Content Providers

Content Providers is a good storage place for an application not only to store data but also to share data with other apps. The files store in Content Providers are encapsulated and allow developers to define a security key. However, as it can be easily added permission, the users may be attacked by malicious actors.

Reference

Security tips, viewed 13 September 2018, <https://developer.android.com/training/articles/security-tips>.