AND\_Session9\_Assignment1

a) What is the difference between Internal Storage & External Storage?

When building an app that uses the internal storage, the Android OS creates a unique folder, which will only be accessible from the app, so no other app, or even the user, can see what's in the folder.

The external storage is more like a public storage, so for now, it's the sdcard, but could become any other type of storage (remote hard drive, or anything else).

The internal storage should only be used for application data, (preferences files and settings, sound or image media for the app to work). If you intent to download many mp3s, i'd reccomend saving them to external storage, as the external storage is often bigger. Besides, storing data on the internal storage may prevent the user to install other applications.

b) For how long the data resides in the cache?

Till the maximum holding capacity of the Cahe is reached.

Caching is a process used by browsers and apps to store information

c) What are the critical Permissions and Normal Permissions? What are the examples of each?

As of API level 23, the following permissions are classified as PROTECTION\_NORMAL:

Normal Permissions:

ACCESS\_LOCATION\_EXTRA\_COMMANDS

ACCESS\_NETWORK\_STATE

ACCESS\_NOTIFICATION\_POLICY

ACCESS\_WIFI\_STATE

BLUETOOTH

BLUETOOTH\_ADMIN

BROADCAST\_STICKY

CHANGE\_NETWORK\_STATE

CHANGE\_WIFI\_MULTICAST\_STATE

CHANGE\_WIFI\_STATE

DISABLE\_KEYGUARD

EXPAND\_STATUS\_BAR

GET\_PACKAGE\_SIZE

INSTALL\_SHORTCUT

INTERNET

KILL\_BACKGROUND\_PROCESSES

MODIFY\_AUDIO\_SETTINGS

NFC

READ\_SYNC\_SETTINGS

READ\_SYNC\_STATS

RECEIVE\_BOOT\_COMPLETED

REORDER\_TASKS

REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS

REQUEST\_INSTALL\_PACKAGES

SET\_ALARM

SET\_TIME\_ZONE

SET\_WALLPAPER

SET\_WALLPAPER\_HINTS

TRANSMIT\_IR

UNINSTALL\_SHORTCUT

USE\_FINGERPRINT

VIBRATE

WAKE\_LOCK

WRITE\_SYNC\_SETTINGS

Critical permissions:

READ\_CALENDAR

WRITE\_CALENDAR

CAMERA

READ\_CONTACTS

WRITE\_CONTACTS

GET\_ACCOUNTS

ACCESS\_FINE\_LOCATION

ACCESS\_COARSE\_LOCATION

RECORD\_AUDIO

READ\_PHONE\_STATE

CALL\_PHONE

READ\_CALL\_LOG

WRITE\_CALL\_LOG

ADD\_VOICEMAIL

USE\_SIP

PROCESS\_OUTGOING\_CALLS

BODY\_SENSORS

SEND\_SMS

RECEIVE\_SMS

READ\_SMS

RECEIVE\_WAP\_PUSH

RECEIVE\_MMS

READ\_EXTERNAL\_STORAGE

WRITE\_EXTERNAL\_STORAGE