

# Where are we now... Week 14

2

- ▶ We have 3 more lectures to be covered in this term:-
  - **Data Type (Android) – week14 (This week)**
  - Data Type (iOS) – week15
  - Rooting & Jailbreaking – week16
  - Revision – week17
- ▶ We will do 2 more practical on Magnet Axiom. One this week and one more next week.
- ▶ No more lab on week16.
- ▶ Please use the time to work on your assignment 2.
- ▶ 1 more assignment (Assignment 2)
- ▶ 1 revision / 1 final exam

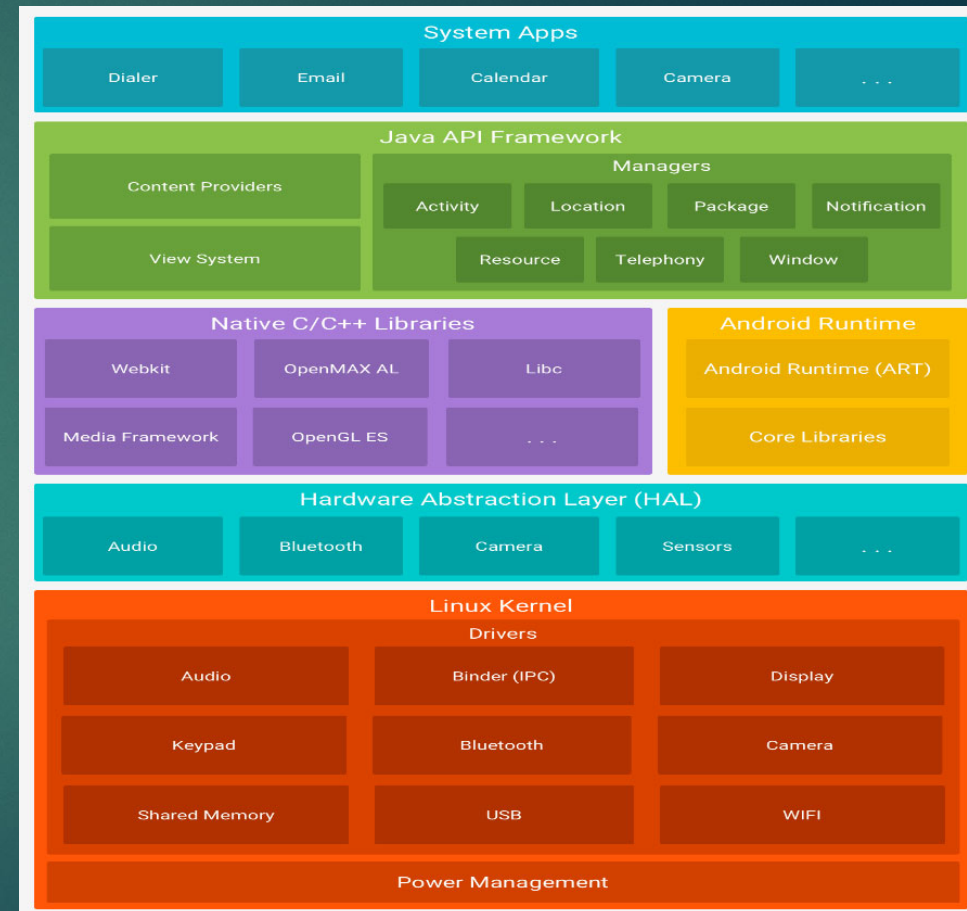


# Data Type (Android)

## - Some important points to note...

### Android architecture

- **Applications** (APP-Build in/User)
- **Application Framework** – Standard platform that work as tool kit by applications
- **Libraries** – SQLite, C/C++ libraries and etc
- **The hardware abstraction level (HAL)** allows the higher level, Java API framework, to work with mobile device's hardware with help of standard interfaces
- **Android Runtime** – Since Android 5.0, each application runs in its own process and with its own instance of the Android Runtime (ART). It allows multiple virtual machines to run on low-memory devices by executing DEX (Dalvik Executable) files
- **Linux Kernel** – Provides device drivers, process management, network and security in core infrastructure



## Data Type (Android)... cont

### Rooting Device

- Running with **root level permissions** on device – Root has **full access to all applications and all application data**.
- Rooting will **increase the security exposure** to malicious applications and potential application flaws
- Rooting also allows the user to **reinstall a new version of OS**
- **Bypasses protection** on device



# Data Type (Android) - Quiz

1 of 1

1. What is the purpose of a Faraday bag?

- ☐ To ensure people outside the case could not see the mobile device
- ☐ To absorb impact when mobile device accidentally drop on floor
- ☒ Ensure that radio wave could not enter the bag and reach the mobile device in the bag
- ☐ To prevent water from entering the mobil device

1 of 1

1. What is System Apps on Android mobile device?

- ☒ Applications that are pre-installed on the phone such as default browser
- ☐ Applications that are downloaded and installed by user
- ☐ Applications that are uploaded to Google Play
- ☐ Applications taht can be used to perform Rooting on Android device

1. Which one of the following is not a Media-Based File Systems in Andriod mobile device?

- ☐ EXTended file system
- ☒ Robust file system
- ☐ File Allocation Table
- ☐ Virtual File Appocation Table

# Today's lab – Week 14

## ► **Need to do:-**

- ❑ DFI Mobile Practical 1v3.2 and 2v3.2
- Image/Case files for the above exercises can be found in “Forensics 6” VM, “Magnet Case File” folder on your VM's desktop.
- Submit your lab answers for DFI Mobile Practical 2v3.2 to “Brightspace ->Lab Exercise Submissions-> Week 14 Lab Submission”.
- Continue to work on assignment 2 if got time...