

It refers to the structure that allows the mobile devices to work. This architecture is composed of different components, some are only for mobile devices.

In the mobile device architecture the principal components are the hardware, the operative system, the software (apps), networks and communication and the security.

### **Hardware**

The hardware refers to the physical part of the device, here are the things like the screen, the memory (storage and ram), the battery, the CPU, etc.

### **The operative system**

It's the software that it's in charge of managing the hardware, also it's the one that manages the user interface that will allow the user to use the device.

There were plenty of operating systems for mobile, like windows phone, blackberry OS, symbian, and others, but in the present the operative systems that domain the market are Android based on linux and iOS exclusive of apple.

### **Networks and communication**

The devices are designed to be connected to the internet all the time so they can obtain and send tons of information, but it's not the internet the only communication standards they can use, they can also have Mobile Networks (3G, 4G, 5G) and bluetooth.

### **Security**

Security is a key part of the mobile devices because the devices store lots of personal information, so the devices normally include biometric sensors and encrypted hardware/software.

### **Apps**

The apps are applications designed specifically for mobile devices, they are a key component because all the features and functionality can be used here.

## References

- webmazter. (2023, June 27). ÍndiceIntroducción En la actualidad, los dispositivos móviles se han convertido en una parte integral de nuestras vidas. Estos dispositivos han. y *Arquitectura*.  
<https://www.yarquitectura.com/arquitectura-de-dispositivos-moviles/>
- *Mobile architecture: Designing for the future of mobile-first*. (2024, March 28). Capstera. <https://www.capstera.com/mobile-architecture/>
- *Sistemas Operativos Moviles*. (n.d.). Retrieved January 10, 2025, from  
<https://www.areatecnologia.com/informatica/sistemas-operativos-moviles.html>