Perspective

A Short Note on Mobile Operating System and its Application

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DESCRIPTION

A mobile operating system enables users to execute a wide range of application software on their phones, tablets, and other mobile devices. Furthermore, it is a form of operating system that is specifically developed for mobile phones, tablets, smart watches, and other similar devices. Furthermore, they are a combination between computer operating systems and mobile operating systems. They're also rather easy and uncomplicated.

An Operating System (OS) is a programmer that serves as a link between the user and the system hardware. Furthermore, it manages all interactions between software and hardware. Let us examine some of the features of an operating system before learning about distinct mobile OS.

OS'S FUNCTIONS

An operating system is essential for a number of functions. Let us study them. OS has a number of functions, including:

Memory organizer

It is in responsibility of the main memory, sometimes refers to as primary memory. Furthermore, every programmer that is run must be present in the main memory. As a result, more than one programmer might be active at the same time. As a result, effective memory management is vital.

- Memory allocation and deallocation are managed by the operating system.
- Keeps track of who uses which area of main memory and how much.
- While multiprocessing, distributes memory.

Processor scheduling and management

When a system has several processes running, the operating system determines how and when each process uses the CPU. As a result, it's also known as CPU Scheduling. The operating system (OS) allocates and deallocates processors to processes.

- Keeps track of the CPU's state.

Device administration

The processes may require the usage of gadgets. The operating system must be capable of this. The operating system (OS) allocates and deallocates devices to various processes.

- Helps to detect of the gadgets
- Determines which processes are allowed to utilize which device for how long.

File administration

On a computer, files are organized into folders. The operating system (OS) maintains track of file status and location.

- Allocates and disposes of resources.

Security

The OS uses authentication to keep the system and apps safe and secure. The user's identity is determined by his or her user id and password.

Other functions

- Error detection is one of the OS's other functions.
- Maintaining track on the system's performance
- Communication between various software applications, etc.

TYPES OF POPULAR MOBILE OPERATING SYSTEM

Bada

This operating system's launcher is Samsung. It was released in 2010. It also has capabilities like 3-D graphics, programme installation, and multipoint touch, among others.

Blackberry operating system

Reasearch In Motion is the company that created this operating system (RIM). It was designed specifically for Blackberry cellphones. It is also advantageous for business users.

Apple iOS

It is one of the most widely used operating systems, second only to Android. It's designed to work with Apple products such as iPhones and iPad tablets. Furthermore, just like Android smartphones, there is a playstore where you may download apps. Similarly, Apple iOS has an app store. It also contains a lot of security features.

Windows mobile operating system

Microsoft created this operating system. It's designed to work with cellphones and small computers.. It also includes Windows OS operations for computers as well as mobile phone-specific features.

Symbian OS

This operating system was created by Symbian Ltd. Nokia was also the first company to utilise this operating system on mobile phones. It also features a high level of communication integration. The Java programming language is used to develop this operating system.

Harmony operating system

Huawei is the firm that developed the new operating system. It's designed specifically for IoT (Internet of Things) devices.

Palm OS

Garnet OS is another name for it. Furthermore, Palm Ltd. is the company that created this operating system for usage in Personal Digital Assistants (PADs).

WebOS

WebOS Palm Ltd is the company that created it. It's also built on the Linux kernel, which HP utilizes in its mobile devices and touchpads.