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|  | **Министерство науки и высшего образования Российской Федерации**  Калужский филиал  федерального государственного бюджетного  образовательного учреждения высшего образования  ***«Московский государственный технический университет имени Н.Э. Баумана (национальный исследовательский университет)»***  ***(КФ МГТУ им. Н.Э. Баумана)*** |

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**Домашнее чтени**

**«Mobile OS: Android & IOS»**

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| Выполнил: студент гр. ИУК4-62Б | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ( Калашников А.С. )  (Подпись) (Ф.И.О.) |
| Проверил: | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ( Журавлева И.В.)  (Подпись) (Ф.И.О.) |
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**Mobile OS: Android & IOS**

**Introduce**

Most people have various electronic devices in the modern world. For example, it is already impossible to imagine our daily life without smartphones. They store our memories, contacts, lists of everyday tasks. Therefore, the development of software for smartphones and other gadgets has become the most popular and promising nowadays.

A lot of mobile operating systems have already been developed for comfortable user interaction with the device. They provide a clear and simple interface for working with smartphones. Also, operating systems are a platform for using third-party applications that expand the basic functionality of the device: games, photo editors, messengers. The most common mobile systems are Android and IOS.

**History**

The story of Android dates back to 2003 when Andy Rubin, Rich Miner, Nick Sears, and Chris White co-founded a start-up Android Inc in California. However, the company was later faced with the insufficiency of funds which brought Google into the picture. Google could sense the potential the product carried within and sealed a deal to acquire Android in 2005. All the four Co-founders soon moved to the Google to continue to develop the OS further under their new owners. The first public Android Beta Version 1.0 was finally published on 5th November 2007.

When Steve Jobs presented the first iPhone in 2007, it was of course the device that gained center stage. The software that powered it (running on the same foundation as Mac OS) was only mentioned briefly. The iPhone used as the basis of a well-known desktop operating system allowed many third-party Mac developers to write software for the iPhone with minimal retraining. Several years later would it occupy its rightful place - as a major brand by itself!

**What is Android OS?**

Android OS is a Linux-based mobile operating system that primarily runs on smartphones and tablets.

The Android platform includes an [operating system](https://www.techtarget.com/whatis/definition/operating-system-OS) based upon the Linux kernel, a GUI, a web browser and end-user applications that can be downloaded. Although the initial demonstrations of Android featured a generic QWERTY smartphone and large VGA screen, the operating system was written to run on relatively inexpensive handsets with conventional numeric keypads.

Android was released under the Apache v2 open source license; this allows for many variations of the OS to be developed for other devices, such as gaming consoles and digital cameras. Android is based on open source software, but most Android devices come preinstalled with a suite of proprietary software, such as Google Maps, YouTube, Google Chrome and Gmail.

**What are Android OS features?**

### Key Features of the Android Operating System:

1. User Interface: Android features a customizable user interface with a grid of app icons on the home screen.
2. Google Assistant: Google Assistant is a virtual assistant that can perform a range of tasks such as setting reminders, sending messages, and providing information.
3. Google Play Store: The Google Play Store is the central hub for downloading and installing apps on Android devices.
4. Google Messages: Google Messages is a messaging app that allows users to send texts, photos, and videos to other Android users.
5. Google Duo: Google Duo is a video calling app that allows users to make high-quality video calls with other Android users.
6. Google Drive: Google Drive is a cloud-based storage service that allows users to store and access photos, documents, and other files across their devices.
7. Notification Center: The Notification Center is a convenient feature that allows users to access their notifications with a single swipe.
8. Security: Android offers robust security features, including biometric authentication (such as fingerprint and face recognition) and app permissions that give users control over which apps can access certain features and information.
9. Google Maps: Google Maps is a navigation app that offers real-time traffic updates, turn-by-turn directions, and local business information.
10. Google Photos: Google Photos is a photo storage and sharing app that offers unlimited cloud storage for high-quality photos and videos, as well as a range of editing and organization features.
11. Near Field Communication (NFC). Most Android devices support NFC, which allows electronic devices to interact across short distances easily. The main goal here is to create a payment option that is simpler than carrying cash or credit cards.

**IOS**

iOS is the operating system used by Apple's mobile devices, including the iPhone, iPad, and iPod touch. Here are some of its key features:

1. User Interface: iOS features a clean and intuitive user interface, with a grid of app icons on the home screen.
2. Siri: Siri is Apple's virtual assistant, which can perform a range of tasks such as setting reminders, sending messages, and providing information.
3. App Store: The App Store is the central hub for downloading and installing apps on iOS devices.
4. iMessage: iMessage is Apple's messaging app, which allows users to send texts, photos, videos, and audio messages to other iOS users.
5. FaceTime: FaceTime is Apple's video calling app, which allows users to make high-quality video calls with other iOS users.
6. AirDrop: AirDrop is a feature that allows users to quickly and easily share files between iOS devices.
7. Control Center: The Control Center is a convenient feature that allows users to access frequently used settings and features, such as Wi-Fi, Bluetooth, and brightness, with a single swipe.
8. Touch ID/Face ID: Touch ID and Face ID are biometric security features that allow users to unlock their device, authenticate purchases, and access certain apps and features with their fingerprint or face.
9. iCloud: iCloud is Apple's cloud-based storage service, which allows users to store and access photos, documents, and other files across their Apple devices.
10. Health App: The Health app is a comprehensive tool for tracking and managing health and fitness data, including steps taken, calories burned, and heart rate.