

ANALYSIS OF MOBILE OPERATING SYSTEMS

M.E.Sanayev

Assistant

Samarkand Institute of Economics and Service,
Samarkand, Uzbekistan

E-mail: sanayevmashrab@gmail.com

O.F.Orifov

Student

Samarkand State University named after Sharof Rashidov

E-mail: okhunjonorifov555@gmail.com

Abstract: Mobile devices leader operational systems briefly description given as well in general mobile operational systems history

Key words: information systems , smartphones, information systems functions , mobile devices

Mobile operating systems smartphone and on tablets installed software supply they are of the device work manages and control will also to the user device with mutually contact to do and applications installation enable will give. Some famous mobile operational to systems the following includes:

1. Android — by Google work developed It's open coded operational system is in the world mostly on smartphones is used .
2. iOS - by Apple work developed, used on iPhone and iPad operational system .
3. Windows Mobile - by Microsoft work developed , some on smartphones applied operational system.
4. BlackBerry OS is by BlackBerry work developed operational system being, he first famous was, but now very less is used.
5. Tizen - by Samsung work developed, some smartphone and smart in hours Linux operating system used system.
6. Firefox OS is by Mozilla work developed , but later development stopped operational system.

This operational of systems every one of the user desire and needs looking to himself special feature and to functionality, as well as to itself special applications and to opportunities have

Mobile operating of systems comparative analysis. Software supply platforms analysis to do for we are one how many of criteria we use

1. This mobile operational the system work came out company
2. Age - on the market how many year
3. Source code Closed or open to be can Closed the source is the rule as, this of the platform only compilation done versions distribution means and license operational of the system source to the code access mean does not hold; It's open means source the code to see, to learn and change for there is that means this while the third towards work to the outgoing one of the system himself in improvement participation reach enable will give.
4. Core type Monolith a rich set of kernel hardware abstractions present is enough Monolith of the nucleus all parts one different address in the field works This operational of the system

scheme being his of the nucleus all components one of the program structural parts is common data from structures uses and procedures directly to call through each other with mutually effect does Microkernel only main processes manage functions and hardware with work for minimum abstractions collection present is enough of work most of them services that called special user processes through done is increased."Microkernel". solution doer criterion service show in processes all or almost all drivers and modules placement , sometimes of the microkernel to himself any one extension modules of loading sure possible Not as well extensions work is exit. Hybrid nuclei changed micronuclei work acceleration for core in the field " main non- " parts to work to drop possibility will give.

5. Supported processor architectures.x86 processors one different instructions collection supports and from IA -32 received to microarchitecture have, that is Intel Architecture 32-bit microprocessors. The chips are CISC (Complex Instruction Set Computing) architecture based on built be, then every one instruction one of time in itself one how low level operations perform can ARM processors to RISC (Reduced Instruction Set Computer) architecture based on 32-bit chips is, i.e shortened commands to the collection have This architecture instructions simplification and their the length restriction through to work increase to the idea is based on

6. Friendliness - untrained user the system How understand to get evaluation.
7. System performance - system How complicated and technical in terms of difficult operations perform possibility
8. Calculation costs - system known one operation How fast again works
9. Reliability - of the system time pass with necessary functions perform ability save stand up feature

10. Failures endurance is system or his some parts from work since it came out after right work ability save to stay for technical of the system feature

11. Continuity - development outgoing company outdated to the system have on devices software the platform update How support shows. For example, Motorola Milestone communicator let's take Release during to him Android 2.1 installed and one from after Android 2.2 is out . his under. This the most good indicator it's not.

12. Multitasking is one how many processes in parallel (or pseudoparallel) re work opportunity provide for operational of the system feature

13. Formal applications shop work outgoing company by created This straight away mobile from your device access possible has been electron shop This in the store work outgoing The company is also the third towards work exits own applications users by free / paid download get for they place

14. In stores to be sold.

15. Multitouch is it two or from him more than touch of points coordinates one of time in itself which determines sensory input systems function.

16. Copy/Paste - text copy and placing opportunity

17. Screen technology.

Resistive the screen is flexible membrane applied bottle liquid crystalline display. Appropriate to the parties resistor composite is used and plains between space dielectric with is divided. Plates to the edges electrodes (four or eight, five or six and seven) attached. When pressed screen and membrane click at the point contact to do guess to do easy, their coordinates high and bottom to the plates consecutively flow apply and voltage measure the way with is considered plates. That's why for you such the screen every how hard thing with click on can - quotes and from the stylus pencil or until the match and it works . Capacitive sensory The screen is usually transparent layer of resistive material is a glass panel used. of the panel to the corners electrodes are installed, they low tense variable voltage conductor to layer delivery will give. Man body electricity tokini to transfer able and one little to capacity have that it was due to , to the screen in touch in the system reading appear will be This of the refugee location , that is contact point of the panel in the corners from the electrodes received to information based on simple manager by is determined.

18. Firmware update Air via - update WiFi connection or straight away mobile via 3G on the device done is increased .

Cable through - of this for mobile the device personal to the computer connect and special programs using update your installation need

19. In the world place - development pace and current market share account is taken.

Mobile operating systems : comparative analysis

Current at the time mobile telephones and on tablets used one how many famous mobile operational systems there is. This in the article we three main mobile operational of the system comparative analysis transfer: iOS, Android and Windows Phone.

by Apple work developed iOS are Apple devices for exclusive operational system. He is his high performance and stability with famous of iOS main advantages of the following consists of:

1. Apple ecosystem: iOS platform Mac, iPad and like the Apple Watch other Apple products with complete integrated. iOS users exclusive functions and fast operational system updates access to the right have

2. Intuitive interface: using iOS convenience and intuitive interface with famous This new starters and mobile technologies didn't know users for ideal does

3. Security: iOS devices viruses and harmful from programs protection doer installed safety functions have From this except for iOS applications to the App Store released until serious from inspection passes.

by Google work developed Android in the world the most famous mobile operational system is considered Android's main advantages of the following consists of:

1. Devices Variety: Android is cheap from smartphones from flagship models was wide kind of on devices is used. This to users own needs and budget based on device choose for more opportunities will give.

2. Personalization: Android the interface adjustment for wide opportunities offer including topics, head the screen change and widgets add This to users devices own to their wishes according to adjustment enable will give.

3. Applications to the store access: different from Google Play Store category very a lot numerous applications offer is enough Android users applications and the games in choosing more to opportunities have by Microsoft work developed Windows Phone not so much famous didn't happen operational

system being , but his advantages have :

1. With Windows Integration: Windows Phone users operating Windows in the system working computer with information synchronization enable will give. This devices in the middle information transmission makes it easier.

2. User for comfortable Interface: Windows Phone Live to the tiles based on unique to the interface have This applications and to information fast and easy access enable will give.

3. Resources optimization: Windows Phone har different in power on devices works and resources optimization offer does This even weaker on devices too no problem to work provides.

This mobile operational of systems every one his own advantages and disadvantages have and selection individual of the user advantages and needs depend iOS exclusive features and security provides, Android of the device a lot edged and personalization offer does and Windows Phone Windows integration and resources to optimization have Mobile operating the system in choosing your needs and to your preferences attention look

LIST OF REFERENCES USED

1. Eshquvvat o'g'li.M.S, Shodiyor o'g'li.Sh.J, Raxmonqul o'g'li.A.T, MA'LUMOTLARNI SINFLASHTIRISHDA BIRCH ALGORITMI AHAMIYATI Часть-11_ Том-1_ Декабрь - 2023 39-42.
2. Eshquvvat o'g'li.M.S, Elmurza o'g'li.Z.B, Anvar o'g'li.B.A DATA MININGDA SEMMA METODOLIGIYASI TASNIFI Часть-11_ Том-1_ Декабрь -2023 35-38.
3. Eshquvvat o'g'li M.S, Zafar qizi Z.B AREAS OF APPLICATION OF ARTIFICIAL INTELLIGENCE ISSN: 2181-4027_SJIF: 4.995 Volume-27, Issue-2, February-2023. 61-64.

4. Eshquvvat o'g'li M.S, Naim o'g'li M. D, Xamrobek o'g'li N.N, DATA MININGDA CRISPDM METODOLIGIYASI TASNIFI Частъ-11_ Том-1_ Декабрь-2023 43-46.
5. Ergashevich, E. A. (2017). Implementation of Modern Pedagogical Technologies in the Process of Training Sessions. *Asian Journal of Multidimensional Research (AJMR)*, 6(5), 3747.
6. Ernazarov, A. E. Specific features of training. *International Journal on Integrated Education*, 3(5), 30-34.
7. AzizaSherboboevna, K. (2021). Linguistic Characteristics Of Advertising Discourse: Creolized And Non-Creolized Advertising Texts. *Int. J. of Aquatic Science*, 12(3), 2944-2951.
8. Sherboboevna, A. K. (2024). Strategies for Translating Tourism Terms into Uzbek Language. *Journal of Innovation in Education and Social Research*, 2(2), 144-148.
9. AzizaSherboboevna, K. (2021). Linguistic Characteristics Of Advertising Discourse: Creolized And Non-Creolized Advertising Texts. *Int. J. of Aquatic Science*, 12(3), 2944-2951
10. Kholboboeva, A. S. (2020). GENERAL FEATURES OF TOURISM ADVERTISEMENT DISCOURSE. *Theoretical & Applied Science*, (4), 261-263.
11. Aminova, K. M. (2019). Internet Media Is A Tool For Promoting Tolerance In Multimedia Societies. *International Journal of Scientific Research And Education*, 7(4), 8172-8177.