Lab 1 – Individual Work  
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**Table of Contents:**Cover Page …………………………………………….............................................. p. 1  
Table of Contents ........................................................................................................ p. 2  
The Mobile Revolution – Impact of Mobile Computing on Individuals ............. pp. 3 - 4

History ................................................................................................................... p. 3

Uses ....................................................................................................................... p. 3

Advantages and Disadvantages ..................................................................... pp. 3 - 4

Future .................................................................................................................... p. 4

The Clash of Titans ............................................................................................. pp. 5 - 6

Huawei Mate 60 Pro vs Xiaomi 13 Pro ........................................................ pp. 5 - 6

Winner: Huawei Mate 60 Pro ........................................................................ p. 6

The Ultimate Service Showdown ....................................................................... pp. 7 - 8

Fido vs Virgin Plus ....................................................................................... pp. 7 - 8

Winner: Fido 50 GB Data Plan ..................................................................... p. 8

References ................................................................................................................. p. 9

**The Mobile Revolution – Impact of Mobile Computing on Individuals**

**History**  
 The rise of mobile computing has changed the way people communicate, perform daily tasks, and access information from anywhere in the world. Mobile computing refers to the use of portable devices, one of the most popular of which is the smartphone, that allows people to connect to both mobile and Wi-Fi networks, allowing them to access the web and perform any type of work without being physically dependent on their physical location. Although the concept was initially introduced in the 1970s with laptop computers, the introduction of the IBM Simon in 1994 and Apple's iPhone in 2007 marked important turning points in the development of modern mobile phones (John Carroll University, 2016).  
  **Uses**  
 In my own experience, mobile computing has become an integral part of most people's daily lives to optimize their work environments and to communicate over long distances with each other. This is consistent with research that highlights the importance of enabling remote work and fast communication (The International Journal of Business Management and Technology, 2022). For some people, mobile computing provides access to social media, various applications, and instant messaging, where, for example, cloud service companies are trying to take advantage of the various features to improve the performance of such services.  
 **Advantages and disadvantages**  
 Among the advantages of mobile computing in devices, we can highlight their portability, which is expressed in a relatively small size, for example, smartphones that can be easily carried around and they themselves have great functionality, which provides timely access to the network. Speaking about the disadvantages, we can say that no devices can be completely protected, which is why there is a risk of personal data security; With the release of new models of such devices, for example, Apple, namely new iPhone models increased in price compared to previous models, thereby increasing the costs of such devices; Another obvious disadvantage is the dependence of users of such devices on these same devices, due to the fact that companies of various applications, for example, Instagram, use certain tactics to keep users’ attention in such applications as long as possible. Speaking for myself, I have noticed that my life has become much easier with the development of mobile computing, but at the same time, there are challenges in maintaining a balance between spending money on new portable devices and spending time using such devices (International Journal of Business Management and Technology, 2022). In addition, research shows that the risk of cyber-attacks is increasing due to the possibility of data leakage from mobile devices with insufficient security (John Carroll University, 2016).  
 **Future**  
 The future of mobile computing lies in the development of technologies such as Artificial Intelligence (AI), the Internet of Things (IoT), and Virtual Reality (VR). Advances in the development of such technologies will provide more advanced artificial intelligence, high-speed data transfer, and new possibilities for interaction with virtual space. In my opinion, the most reasonable approach will be to implement some features that will be aimed at minimizing the occurrence of excessive dependence on using technologies that use mobile computing. For example, AI-based applications should automate routine tasks, and 5G will improve the functionality of products that combine virtual reality (VR) and augmented reality (AR) (John Carroll University, 2016).  
  
 **The Clash of Titans**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Feature** | | |  | | --- | | **Huawei Mate 60 Pro** | | |  | | --- | | **Xiaomi 13 Pro** | |
| **Manufacturer** | Huawei | **Xiaomi** |
| **Phone Model** | Mate 60 Pro | **13 Pro** |
| **Price** | $1,200 | **$1,050** |
| **Release Date** | September 2023 | **February 2023** |
| **Operating System** | HarmonyOS 4.0 | **MIUI 14 (Android 13)** |
| **Chipset** | Kirin 9000S | **Qualcomm Snapdragon 8 Gen 2** |
| **Processor (CPU)** | Octa-core (3.13 GHz) | **Octa-core (3.2 GHz)** |
| **Memory (RAM)** | 12 GB | **12 GB** |
| **Memory (Internal)** | 512 GB | **512 GB** |
| **Memory (External)** | No | **No** |
| **Display** | 6.74 inches, 120Hz OLED | **6.73 inches, 120Hz LTPO AMOLED** |
| **Camera (Rear)** | 50 MP (triple) | **50 MP (triple)** |
| **Camera (Front)** | 13 MP | **32 MP** |
| **GPS** | Yes, dual-band A-GPS | **Yes, dual-band A-GPS** |
| **Battery** | 5000 mAh | **4820 mAh** |
| **Battery (Talk time)** | 34 hours | **30 hours** |
| **Battery (standby)** | 480 hours | **450 hours** |
| **Network** | 5G | **5G** |
| **Synchronization with Desktop** | Yes | **Yes** |
| **Voice enabled** | Yes | **Yes** |
| **Browser** | Huawei Browser | **Xiaomi Browser** |
| **Special Feature 1** | Satellite communication | **Leica-tuned camera system** |
| **Special Feature 2** | Water resistance (IP68) | **120W fast charging** |

**The Winner: Huawei Mate 60 Pro**  
 The Huawei Mate 60 Pro wins this comparison thanks to its satellite communication capability, which lets users maintain connectivity even in remote areas where traditional networks are inadequate. This feature is groundbreaking for professionals and business travelers who need to stay connected in a variety of locations. It's also a better fit for heavy users because of its longer talking time and somewhat larger battery. Though the Xiaomi 13 Pro shines with its powerful camera system and fast charging, the Mate 60 Pro has the lead in this fight because of its unique features.

**The Ultimate Service Shutdown**

|  |  |  |
| --- | --- | --- |
| **Feature** | **Fido** | **Virgin Plus** |
| **Service Provider** | Fido | Virgin Plus |
| **Plan** | 50 GB Data Plan | 50 GB Data Plan |
| **Calls** | Unlimited Canada-wide | Unlimited Canada-wide |
| **Data** | 50 GB at 4G LTE, then unlimited at reduced speed | 50 GB at 4G LTE, then unlimited at reduced speed |
| **Messaging** | Unlimited texting (Canada & International) | Unlimited texting (Canada & International) |
| **Global Texting** | Included | Included |
| **Voice mail** | Basic voicemail (3 messages) | Voicemail+ (up to 10 messages) |
| **Call features** | Call display, call waiting, conference calling | Call display, call waiting, conference calling |
| **Service credits** | 5 hours of free data each month | 500 MB extra data during the first 12 months |
| **Fees** | $55/month + taxes | $60/month + taxes |
| **Usage policy (Terms and Conditions)** | Data throttling after 50 GB | Data throttling after 50 GB |
| **Coverage** | Nationwide LTE, expanding 5G in select areas | Nationwide LTE, expanding 5G in select areas |
| **Exclusive Offer 1** | Spotify Premium discount for 6 months | Free SIM card with activation |
| **Exclusive Offer 2** | Fido XTRA: weekly perks and contests | Virgin Perks: discounts on lifestyle services |

**Winner: Fido 50 GB Data Plan** Fido wins in this service comparison because of its higher total value and extra features. Even though it provides the same essential features as Virgin Plus's package—unlimited calls, 50 GB of high-speed data, and international messaging—it costs far less ($55/month). However, the added benefit of five hours of free data each month stands out and provides consumers with flexibility in case they occasionally exceed their data limit. Furthermore, Fido's Fido XTRA program enhances the overall user experience by providing weekly promotions and contests.

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