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Assignment # 01

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Course: Operating System

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Task 1: Explain basic differences between the different versions of android operating system.

1: Android 13: Released on August 2022.

Key features:

- * Had increased privacy and personalization (Security).
- * Had introduced Material you customization that had extended color themes across apps.
- * Had better tablet and folder support with taskbar and improved UI.
- * Had Improved Bluetooth Low Energy (LE) Audio support for better sound quality.

2: Android 14: Released on October 2023.

Key features:

- * Had enhanced availability of bigger fonts upto 200% and better screen magnification.
- * Had improved battery life with improved and optimized background tasks.
- * Had more control on data sharing means restrictions on apps accessing background data.
- * Had improved health and fitness tracking by

integrating Health Connect.

- * Better Satellite connectivity support.

3: Android 15: Released in 2024.

- * Had enhanced satellite messaging service for areas without mobile coverages.
- * More advanced privacy controls having stronger app restrictions.
- * Had better performance optimization for large screen devices (tablets / foldables etc).
- * Improved battery performance / efficiency and resource management.



Task 2 : What do you expect from a new operating system?

From a new operating system, I expect speed and efficiency or enhanced performance, stability, and resource management which would be the core functionalities. In terms of security and protection, I expect advanced threat detection, data security and sand-boxing. In terms of UX and app management, I would expect user-friendly interface, seamless application management and data portability or interchange. In terms of advanced features, I expect AI integration, cloud &

edge computing, modular design and architecture, abstraction, and customization.



Task 3: Windows 8 Failure :-

Windows 8 was officially released into the market by Microsoft in 2012 as the next successor after Windows 7. Here are some reasons of why it actually failed while having a higher picture in mind that it would be successful in the eyes of people who were using Windows 7.

1. **UI changes Unwanted :** The entire shift to the touch-centric "Metro" interface confused and started away desktop users accustomed to the Start menu.
2. **Dual-Interface Confusion:** Switching between the new "Metro" screen and the traditional desktop created a frustrating and disjointed experience.
3. **Poor non-touch optimization :** The OS was designed for touchscreens but launched when most users still used mice and keyboards, making it feel awkward and inconvenient.
4. **Lack of desktop innovation:** It was perceived or informed as a downgrade from Windows 7 OS for desktop users, offering few new features that benefited them.



Task 4: Failure of windows phone

The windows phone was microsoft's attempt to enter into the smartphone business at that time. This was introduced after the concept of windows mobile as a successor in 2010.

Microsoft laid a partnership with nokia in 2011, making the official flagship phone for Nokia to be known as "Windows phone" which had later on created a confusion among users since its name was to be argued about by most people.

→ Key Reasons behind failure:

Windows phone failed due to:

1. **Late Market Entry:** It launched years after iOS and Android had already been in market and established User loyalty.
2. **Lack of App Ecosystem:** It suffered from a critical lack of popular apps and poor developer support, creating a "no users → no developers → no users" cycle.
3. **Poor Google interaction:** Google denied and refused to support the platform, making its essential services unavailable or poorly functioning.
4. **Strategic Missteps:** Inconsistent branding (Windows phone 7, 8, 10 Mobile) and a costly acquisition of Nokia that didn't yield innovation, confused users and fractured or nearly destroyed the platform.

