Evolution of Operating System(OS)

1940s -1950s

NO OS/serial processing

computer used plugboard; user manually loaded programs (punch card), running one job at a time, a show, inefficient process.

1950s -1960s

Batch processing

system like GM-NAA I/o automated job handing by grouping similar tasks (batches) for sequential execution, improving CPU utillization.

1960s-1970s

Multiprogramming & Time - Sharing

Multiprogramming allowed multiple jobs in memory; Time-Sharing (CTSS,Multics) let many users interact simultaneously, making computer more interactive

1980s-1990s

Personal Computer & GUIs

The PC revolution brought user-friendly OSs (MS-DOS,Windows, Mac OS) with Graphical User Interfaces (GUIs), making computing accesible to the masses.

1990s-2000s

Networking & Internet

Focus shifted to networked system (Linux, Windows NT) with TCP/IP , enabling client-server models and internet connectivity.

2000s-Present

Mobile & Cloud Era

Emergence of mobile OSs (iOS, Android) and computing led to highly portable , connected, and intelligent system.

Ongoing

IoT, Edge & AI

Modern OSs are expanding into internet of things (IoT) devices, edge computing, and integrating AI for smarter, more adaptive experience

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