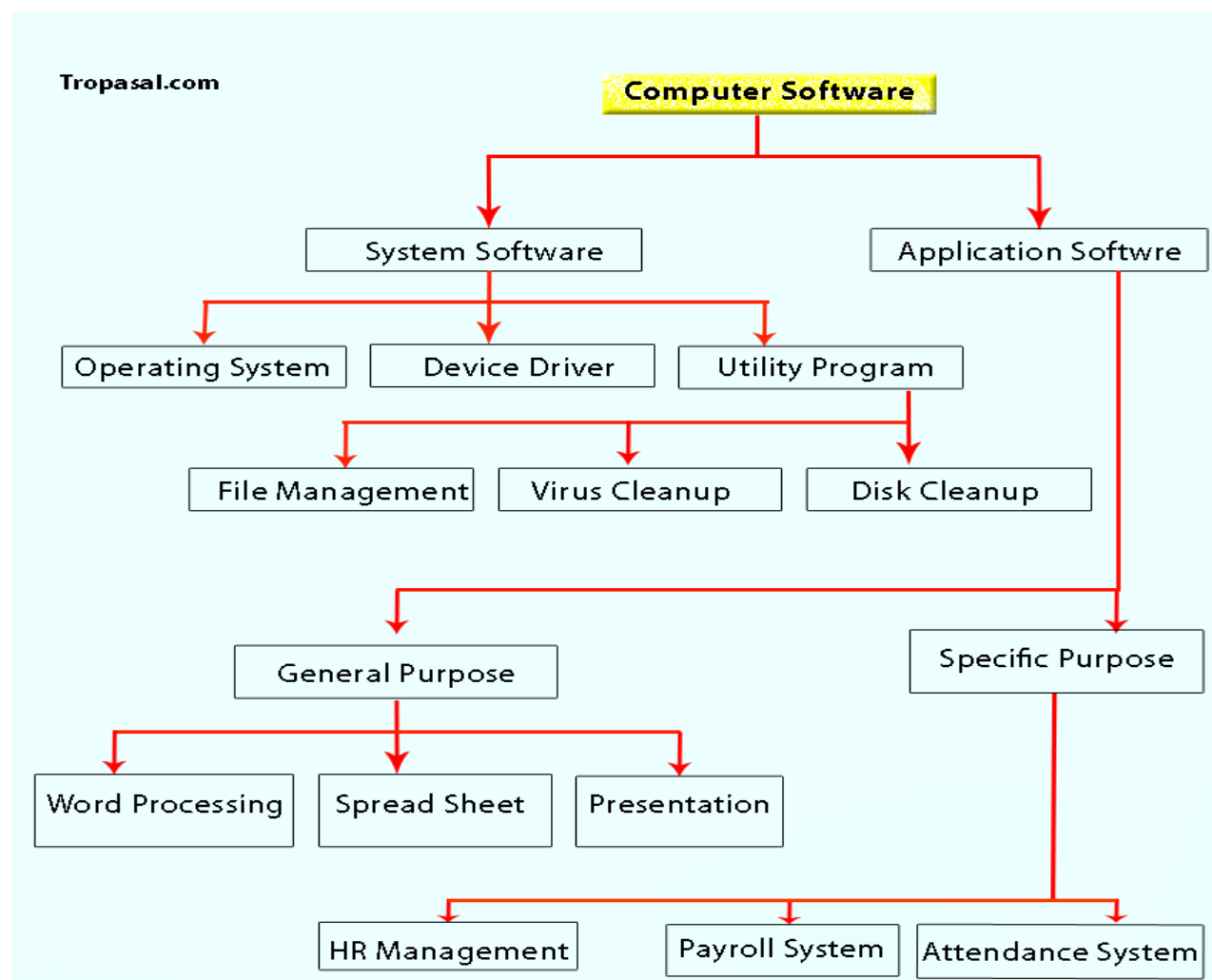# REPORT ON SYSTEM SOFTWARE, APPLICATION SOFTWARE, AND UTILITY SOFTWARE

Introduction

Software is a collection of instruction that enable a computer to perform specific tasks. It can be broadly categorized into three main types: **System software, Application software,** and **Utility software**. This report discusses each category, their functions, and provides examples for better understanding.

1.System Software

1.1Defination

System software is a type of software that controls the hardware and manages basic system operation. It servers as a foundation upon which application software can run and provides the environment for the hardware to function.
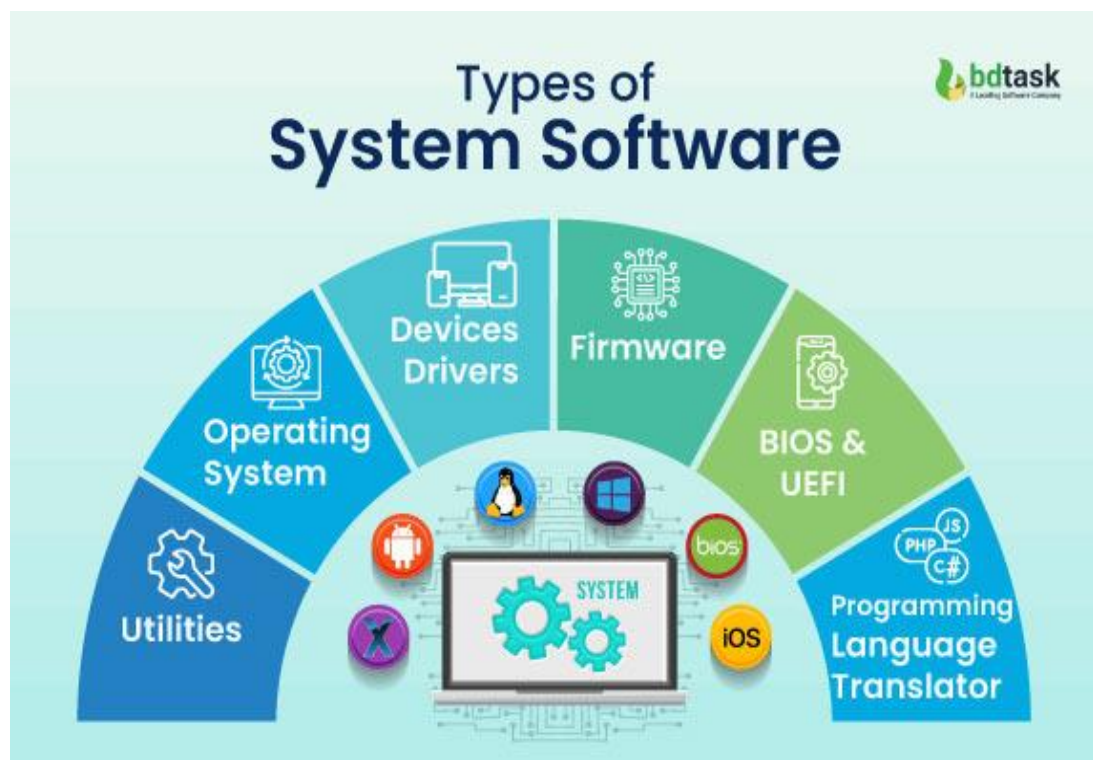
1.2 Function of System Software

- **Hardware Management:** Manages and controls hardware components like CPU, memory, and input/output devices.
- **Operating System (OS):** Provides an interface between the user and the hardware, handling tasks like memory management, file management, and multitasking.
- **Booting the System:** System software is responsible for starting the computer and running diagnostics.

1.3 Examples of System Software

- **Operating System:**
  - Microsoft Windows
  - macOS
  - Linux
  - Android
  - iOS
- **Device Drives:** Software that allows hardware devices (like printers, keyboards) to communicate with the operating system.

- **Firmware:** Embedded software stored in hardware devices (e.g., BIOS on computer).

2. Application Software

2.1 Defination

Application software is designed to help users perform specific tasks or applications. It runs on top of system software and enables the user to carry out specialized functions like creating documents, browsing the internet, or editing videos.

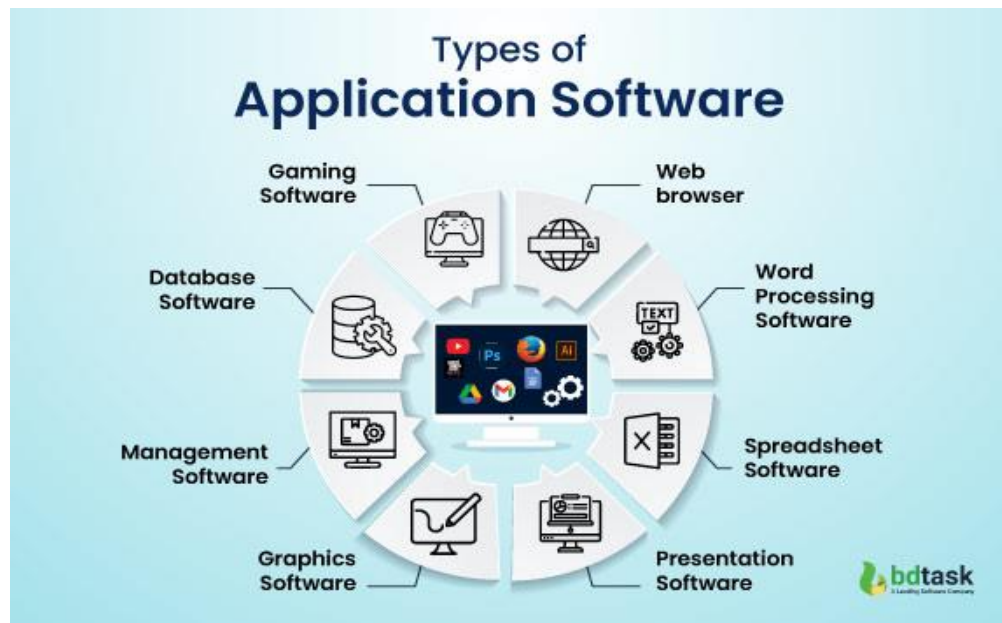## 2.2 Function of Application Software

- **Productivity:** Helps users perform tasks like word processing, spreadsheets, and presentations.
- **Entertainment:** Provides media and gaming experiences.
- **Communication:** Allows users to send emails, conduct video calls, or engage in social networking.
- **Creativity:** Facilitates the creation and editing of content such as a graphics, video, and music.

2.2 Examples of Application Software

- **Office Productivity:**
  - Microsoft Word (word processing)
  - Microsoft Excel (spreadsheets)
  - Google Docs (collaborative document creation)
- **Web browsers:**
  - Google Chrome
  - Mozilla Firefox
  - Safari

- **Multimedia:**
  - Adobe Photoshop (image editing)
  - VLC Media Player (media player)
  - Final Cut Pro (video cutting)
- **Games:**
  - Fortunate
  - Minecraft

3. Utility Software

3.1 Defination

Utility Software is a type of system software designed to analyze, configure, optimize, or maintain a computer. It helps ensure that the computer runs efficiently by managing system resources and addressing issues such as security or data storage.

3.2 Function of Utility Software

- **System Maintenance:** Keeps the system running efficiently by cleaning up unnecessary files, defragmenting drives, and managing system performance.
- **Security and Protection:** Protects the system from viruses, malware and unauthorized access.
- **File Management:** Assists in organizing, searching, and managing files.

3.3 Examples of Utility Software

- **Antivirus Programs:**
    - Norton Antivirus
    - Mc A fee
    - Kaspersky
- **Disk Management Tools:**
    - Disk Cleanup (Windows)
    - Disk Utility (macOS)
- **Backup Utility:**
    - Acronis True Image

- o Windows Backup
- **Compression Tools:**
  - o WinRAR
  - o 7-Zip
  - o WinZip