

Chapter Three Software Faculty of Information Technology – Computer Science Department 1

Fundamentals of Information Technology Outline ?File Format File Extension Graphics .jpg , .png , .gif
 Sound .mp3 , .wma , .ogg Text .txt , .doc Video .mpg , .avi , .divx Programs .exe , .com , .bat Program
 Code .c , .java , .cs , .py File Extension Faculty of Information Technology – Computer Science
 Department 13 1.This is different from proprietary software like Windows, which can only be modified by
 the company that owns it. The advantages of Linux are : o It is free o There are many different
 distributions—or versions—you can choose from Linux Faculty of Information Technology – Computer
 Science Department 10 Mobile devices such as phones, tablet computers, and MP3 players are different
 from desktop and laptop computers, so they run operating systems that are designed specifically for
 mobile devices. Some of the specific versions include: o macOS 13 Ventura (released in 2018) o macOS
 12 (Monterey) (2021) o macOS 11 (Big Sur) (2020) macOS Faculty of Information Technology –
 Computer Science Department 9 Linux (pronounced LINN–ux) is a family of open–source operating
 systems, which means they can be modified and distributed by anyone around the world. Examples of
 mobile operating systems include: o Apple iOS o Google Android Operating systems for mobile devices
 generally aren't as fully featured as those made for desktop and laptop computers, and they aren't able
 to run all of the same software. Examples of browsers include: o Mozilla Firefox o Google Chrome o
 Safari o Opera Application Software Faculty of Information Technology – Computer Science Department
 19 Media players: If you want to listen to MP3s or watch movies you've downloaded, you'll need to use a
 media player. Faculty of Information Technology – Computer Science Department 3 o Operating system
 (e.g., Windows, Mac OS X) o Device drivers o Diagnostic and maintenance tools (e.g., Disk Cleanup)
 System software o Used by users to perform tasks on the computer Application software Main
 Categories of Software Faculty of Information Technology – Computer Science Department 4 An
 operating system is the most important software that runs on a computer .Shareware have three types: o
 Nagware: software keeps reminding the user to purchase the full version o Crippleware: software that
 works with limited functionality until the user purchases it o Freemium: software with a free tier and paid
 tier ?Graphical user interface (GUI) o User performs tasks using the software's graphical elements (e.g.,
 windows, pointers, icons, menus). However, you can still do a lot of things with them, like o Watch
 movies o Browse the web o Manage your calendar o Play games Operating Systems for Mobile Devices
 Faculty of Information Technology – Computer Science Department 11 The file format is the structure of
 a file that tells a program how to display its contents, where each program encodes files in its own
 way. Types of Software Faculty of Information Technology – Computer Science Department 14 There are
 two kinds of user interface: o Command line interface (CLI) o Graphical user interface (GUI) Key
 difference is that a CLI is text–based while a GUI graphically–based User Interfaces Faculty of
 Information Technology – Computer Science Department 15 ?The three most common operating
 systems for personal computers are: o Microsoft Windows o macOS o Linux Modern operating systems
 use a graphical user interface (GUI). E.g., MP3 File Formats Faculty of Information Technology –
 Computer Science Department 12 File extension is used by the operating system to determine a file's
 format. Command line interface (CLI) o User enters text commands to perform tasks. System Software –
 OS Faculty of Information Technology – Computer Science Department 5 Your computer's operating

system (OS) manages all of the software and hardware on the computer .A GUI lets you use your mouse to click icons, buttons, and menus, and everything is clearly displayed on the screen using a combination of graphics and text.

Microsoft Windows Faculty of Information Technology – Computer Science Department 8 macOS (previously called OS X) is a line of operating systems created by Apple.

Open–source Software is computer software whose source code is available openly on the internet and programmers can modify it to add new features and capabilities without any cost.

Applications for desktop or laptop computers are sometimes called desktop applications, while those for mobile devices are called mobile apps.

o User can perform tasks and interact with the hardware through software.

Hard Disk Software is Loaded Read / Write CPU executes instruction

What is Software?

Shareware : User has a trial period in which to evaluate the software and purchase it if they want.

Application Software Faculty of Information Technology – Computer Science Department 2

Software is instructions that tell a computer what to do. Also, known as programs or applications.

o Loaded from secondary memory into primary memory, where it is executed by the CPU.

Examples: Microsoft Office, Adobe Acrobat.

E.g., HTML, PDF o Proprietary ????