



SANJAY GHODAWAT INSTITUTE

Approved by A.I.C.T.E. New Delhi, and Recognized by DTE Mumbai, Govt. of Maharashtra

Sanjay Ghodawat Institute

Atigre



First Semester

(Year: 2024-25)

Micro Project

Fundamentals of ICT (311001)

Title of the Project: Types of Software

Program: Computer Science and Engineering (CW1K)

Members of the Group

- | | |
|------------------------------|--------------|
| 1. <u>Piyush Lohar</u> | Roll No. 661 |
| 2. <u>Shudhdodhan kurane</u> | Roll No. 660 |
| 3. <u>Varad khade</u> | Roll No. 653 |



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Maharashtra State Board of Technical Education, Mumbai

CERTIFICATE

This is to certify that,

Mr. /Ms. **Piyush Lohar** Roll No. **661** of First Semester of Diploma in **Computer Science and Engineering** of **Sanjay Ghodawat Institute** has completed the Micro Project satisfactorily in course **Fundamentals of ICT (311001)** for the academic year 2024-25 as prescribed in the curriculum.

Place: Atigre

Enrollment No: 24213440494

Date:

Exam Seat No: 270652

Course Coordinator

HOD

Principal

Institute
Seal



MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

MICRO PROJECT **Progress Report / Weekly Report**

Name of the Project: Types of software

Course: ICT (311001)

Program: Computer Science and Engineering (CW1K)

Roll No. 661

Week No	Date	Duration in Hrs.	Work / Activity Performed	Sign of the Faculty
1	[14/09/24]	2hrs	Initial project research, gathering resources on types of software	
2	[14/09/24]	2hrs	Drafting report content and creating structure in Word Document	
3	[28/09/24]	2hrs	Compiling data in Excel (e.g., types and features of software)	
4	[28/09/24]	2hrs	Designing and preparing PowerPoint presentation	
5	[21/10/24]	2hrs	Adding images and diagrams to PowerPoint presentation	
6	[09/11/24]	2hrs	Creating comparison charts in Excel for types of software	
7	[09/11/24]	2hrs	Proofreading and editing the report for clarity and accuracy	
8	[11/11/24]	2hrs	Final practice and refining PowerPoint slides	
9	[23/11/24]	2hrs	Final submission and project documentation preparation	



Teacher Evaluation Sheet for Micro Project

Course Title and Code: - Fundamentals of ICT (311001)

Title of the Project: - Types of Software

Group No: - 06

COs addressed by the Micro Project:

CO1:	Understand Basic ICT Concepts
CO2:	Apply Skills in Word Processing
CO3:	Utilize Spreadsheet Software for Data Analysis
CO4:	Create Engaging Presentations
CO5:	Conduct Research and Information Gathering
CO6:	Work Collaboratively and Manage Project Tasks

Marks:-

Roll No.	Name Of Student	Marks for Group Work (06)	Marks obtained by the individual based on viva (04)	Total Marks (10)
661	<u>Piyush Lohar</u>			
660	<u>Shudhdodhan kurane</u>			
653	<u>Varad khade</u>			

Name and designation of Faculty Member: Mrs.Shreya Kharade

Signature: _____



1 Title Page

- **Title of the Project:** Types of Software
- **Course:** ICT (311001)
- **Program:** Computer Science Engineering (CW1K)
- **Student Group Names and Roll Numbers:** Batch F3

1. Piyush Lohar	Roll no. 661
2. Shudhdodhan kurane	Roll no. 660
3. Varad Khade	Roll no. 653

- **Batch and Semester:** F3 Batch, Semester 1
- **College Name:** Sanjay Ghodawat Institute, Atigre
- **Project Guide/Lecturer:** [Mrs.Shreya Kharade]
- **Date of Submission:**

2. Acknowledgment

We would like to express our sincere gratitude to [Mrs.Shreya Kharade] for providing invaluable guidance and support throughout this project. We also extend our thanks to our classmates for their feedback and encouragement, which motivated us to explore and understand the topic comprehensively.



3. Table of Contents

Sr No	Title	Page No
1	Introduction	8
2	Objectives	8
3	Methodology	8
4	Project Details	8
	4.1 Overview of Types of Software	9
	4.2 Data and Analysis	9
	4.3 Presentation Summary	9
5	Conclusion	10
6	References	10
7	Appendices	10



4. Introduction

- **Brief Overview:** This project explores the various types of computers, from personal computers and laptops to mainframes and supercomputers. It focuses on the functionality, purpose, and features unique to each type of software.
- **Importance of the Topic:** Understanding the types of software is essential in today's technology-driven world, where each type has specific roles across different industries. This knowledge helps in selecting appropriate computing systems based on application needs.

5. Objectives

1. To identify and understand the major types of software.
2. To explore the features and purposes of each type.
3. To compare the different categories and analyze their applications in various fields.

6. Methodology

- **Research:** Information was gathered from textbooks, online sources, and reputable articles to ensure accurate descriptions of each software type.
- **Data Collection:** Details were organized in Excel to compare the characteristics of each type of software.
- **Presentation:** A PowerPoint was prepared to visually showcase the data and highlight key differences between software types.

7. Project Details

4.1 Overview of Types of Software:

Software is a collection of instructions 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

1.1 Definition

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

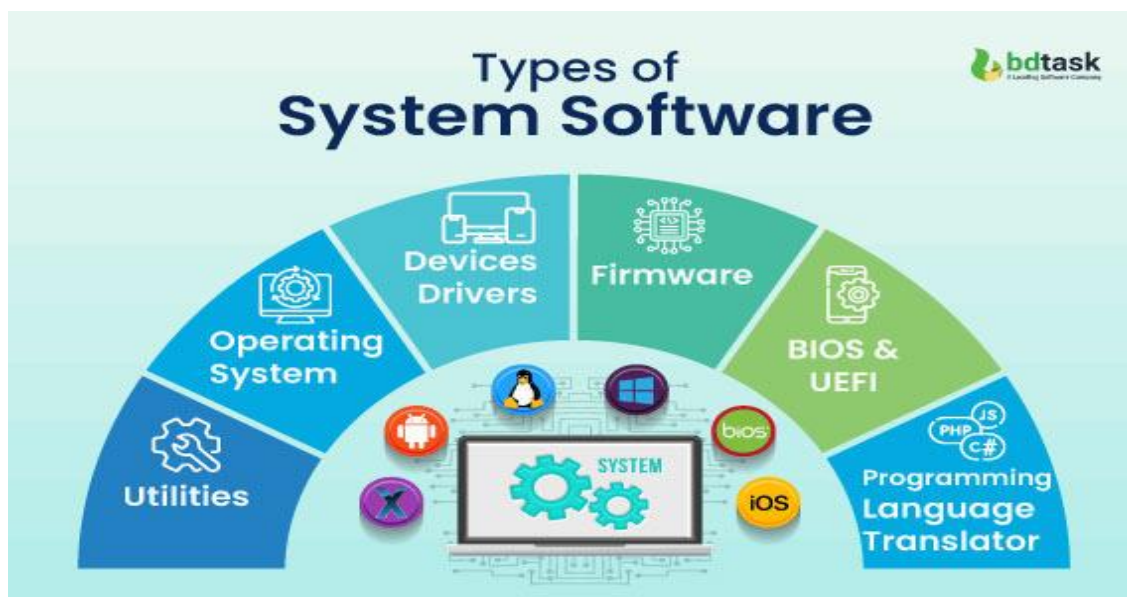
1.2 Function of System Software

- **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:

- o Microsoft Windows
- o macOS
- o Linux
- o Android
- o iOS





2. Application Software

2.1 Definition

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





3. Utility Software

3.1 Definition

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:**
 - o Norton Antivirus
 - o McAfee
 - o Kaspersky
- **Disk Management Tools:**
 - o Disk Cleanup (Windows)
 - o Disk Utility (macOS)





- **4.2 Data and Analysis**

Data was collected and summarized in Excel, highlighting key attributes such as processing power, user capacity, common applications, and relative cost. Below is an example table:

- **Charts and Graphs:** Excel was used to create comparison charts illustrating processing power and user capacity among different software types.

Software category	Defination	Examples	Typically
System software	Software that manages and controls hardware resources providing a platform other software	Windows, macOS, Linux, Android.	System administrators, IT professionals, end-users
Application software	Software designed to help users perform soecific rasks such as word processing or browsing	Microsoft word, Adobe photoshop, Google chrome	Office workers, students administrators, businesses
Utility software	Software that optimizes, maintains, and manipulate databases.	Northan antivirus, Disk cleanup, WinRAR	IT professionals, system administrators, businesses

- **4.3 Presentation Summary**

The PowerPoint presentation highlighted the evolution and distinguishing features of each software type, with visuals and key points from the report. Important slides included:

- **Slide 1:** Introduction to Types of software
- **Slide 2-6:** Details of each software type with images and specifications.
- **Slide 7:** Comparative chart of processing power and user capacity.
- **Slide 8:** Conclusion and future outlook of software technology.



8. Conclusion

In this project, we explored the various types of software and their unique roles in different domains. Understanding these distinctions helps to appreciate the broad applications of computing technology, from everyday personal tasks to solving complex scientific problems. This project has deepened our knowledge of software technology and its continuous evolution.

9. References

- **Textbooks:**
 - Tanenbaum, A.S., *Computer Science: A Structured Approach Using C*, Pearson Education, 2003.
 - **Websites:**
 - "Types of Computers", SoftwareHope.com.com, <https://softwarehope.com> (Accessed on [Date]).
 - **Articles:**
 - Jones, M., "The Evolution of Software," *Tech Today Journal*, Vol. 22, No. 3, 2021.
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10. Appendices (Optional)

- **Appendix A:** Full Excel spreadsheet of data collected.
- **Appendix B:** Additional screenshots or diagrams used in the presentation.