

Systems and Services

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Outline

- Operating systems
- Moodle
- Websites & Web Hosting
- School Management Systems
- Domain Registration
- Web Conferencing
- Emails



Operating Systems

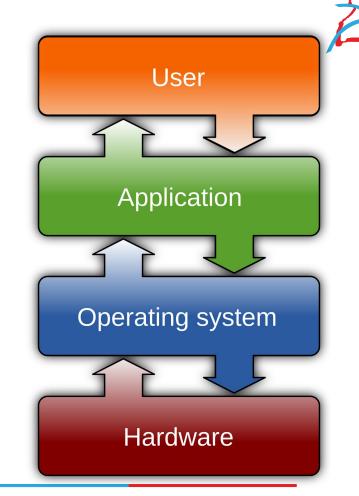
Outline

- Introduction
- Components of OS
- Examples of OS
- Linux Vs Windows
- Who should use Linux?
- Linux Theory
- Linux Distros
- Why Linux
- Q & A

Introduction

• A program that acts as an intermediary between a user of a computer and the computer hardware.

 An operating System is a collection of system programs that together control the operations of a computer system.



Examples of Operating Systems

















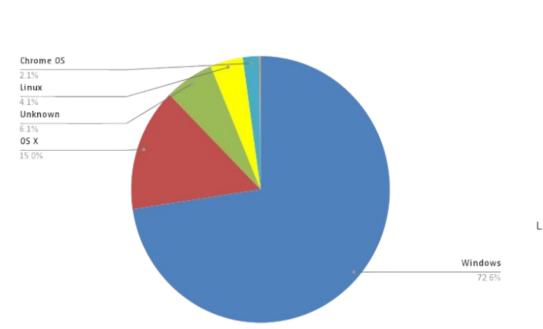


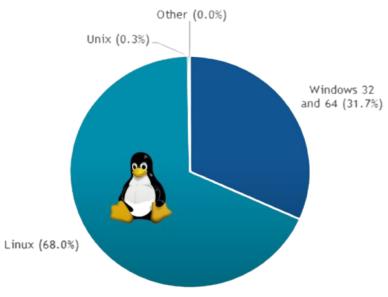




Operating System usage







Server OS market share by March 2025

Desktop OS market share by March 2025

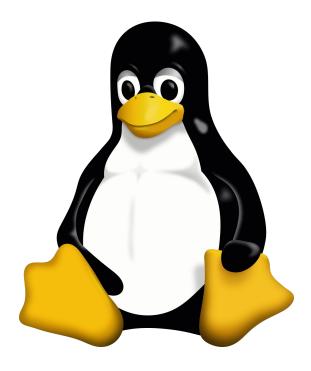
Linux Vs Windows

Linux	Windows
Open-source	Closed source
Free	Licensed
More secure	Less Secure
Steeper Learning curve	Shallow learning curve
Less application support	More application support
Graphical User Interface (GUI) is not good enough	Better GUI

Who should use Linux?



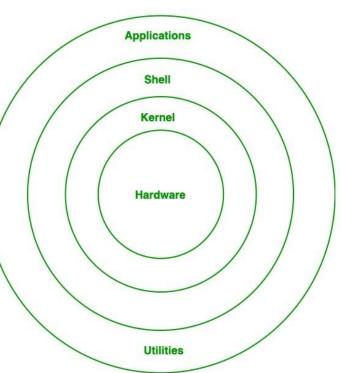
- Users seeking a reliable and stable OS
- Developers and System Administrators
- Researchers & educators
- Tech enthusiasts
- Tight Budget
- People with Older or Low-Spec Hardware



Components of Linux Systems



- **Hardware:** These are the peripheral devices such as RAM/HDD/CPU.
- **Kernel:** It's the core of the Linux operating system. It's responsible for all major activities of the operating system and interacts with the hardware.
- **Shell:** It takes commands from the users and executes the kernel's functions. It's an interface between the users and the kernel.
- **System utilities:** Programs that perform specific tasks for the end users.



Linux Distros



- A Linux distro is an operating system that includes the Linux Kernel for it's Kernel functionalities.
- Each distro can contain a Linux kernel, package manager, shell utilities, an installer, and other services.
- There are more than 1000 Linux distros, but these are often categorized as either Debian-based or Red Hat.

Linux Distros - continued



- Common Debian-based distros
 - Linux Mint
 - Ubuntu
 - Kali Linux
 - Parrot OS
 - MX Linux
 - Deepin

- Common Red Hat distros
 - CentOS
 - Fedora
 - Oracle Linux
 - ClearOS
 - EuroLinux
 - EulerOS







Websites & Web Hosting

Outline

- Introduction
- Why a Website?
- RENU Web Development Service
- Web Hosting
- RENU Web Hosting Service
- Q & A

Introduction



- A website is a set of connected pages on the internet.
- You access websites
 through browsers like
 Chrome or Firefox.



Why a Website?

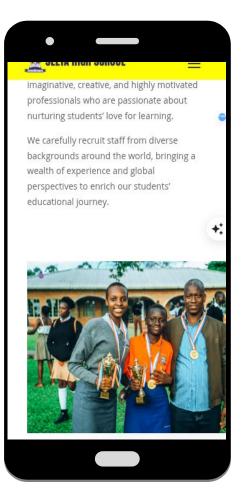


- Sharing learning materials
- Reaching more students
- Creating a professional online presence
- Promoting school or class projects
- Facilitate online applications



RENU web development service

- Modern, responsive, & user-friendly websites
- Search Engine Optimization (SEO)
- Institutional Branding & Colors
- Tailored features such as News articles, events, Course catalogs
- Domain Name registration
- Reliable & Secure hosting



Web Hosting Service



 Web hosting is a service that allows your website to be accessible on the internet by providing server space and resources.

RENU Web Hosting service

RENU

- Secure & Private
- Regular backups
- Security patches





- High Performance (Latency)
- Flexible packages ranging from basic, standard, ultimate, etc.









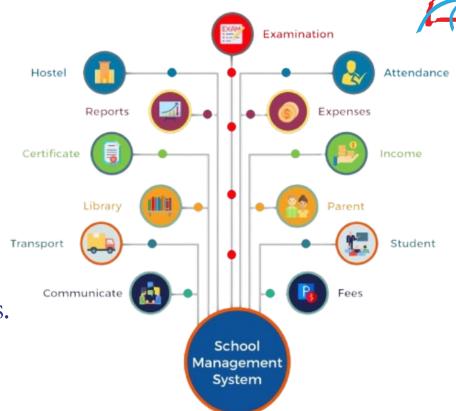
School Management Systems

Outline

- Introduction
- Why a School Management System?
- RENU 360 Service
- Q & A

Introduction

 An application designed to streamline and automate administrative, academic, and communication processes
 within educational institutions.



Why a School Management System?



- Student/Pupil enrollment and records
- Teacher and staff management
- Attendance tracking
- Grade and examination management
- Fees collection and accounting
- Timetable scheduling

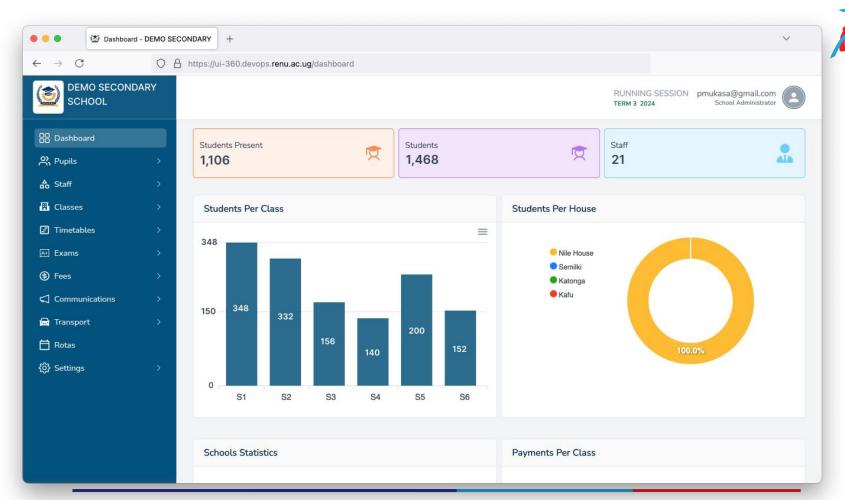
RENU 360 service



Modern & user-friendly School Management System helps in:

- Attendance tracking.
- Bulk SMS for communication to the parents.
- Student/Pupil marks management and report generation.
- Timetable Scheduling.
- Library management.
- Fees management.
- e.t.c





Knowledge | Community | Solutions





KITEEZI-KABAGA Tel: 256776410059 Email: Serinaprimaryschool1@gmail.com "KNOWLEDGE IS POWER"



END OF TERM REPORT

Name: AHWEERA CAMPREEN KAMUSIIME

Class: PRIMARY ONE Term: TERM 1 Year: 2025

PERFORMANCE RECORDS

GRADE	REMARK	TEACHER	
		TEROTIER	
D2	V.GOOD	A.N	
D1	EXCELLENT	A.N	
D2	V.GOOD	H.N	
D1	EXCELLENT	L.O	
	D1 D2	D1 EXCELLENT D2 V.GOOD	D1 EXCELLENT A.N D2 V.GOOD H.N

TOTAL MARKS: 383

AVG: 95.75

AGG: 6

DIV: First grade

ASSESSMENT RECORDS

SUBJECT	ENGLISH	ONE	MATHEMATICS	TWO	TOTAL	AVG	AGG	DIV	
MID TERM EXAM	94	96	98	98	386	96.5	5	First grade	
			GRADING SCA	ALE					

GRADING SCALE									
0-39	40-44	45-49	50-59	60-65	66-74	75-84	85-94	95-100	
F9	P8	P7	C6	C5	C4	C3	D2	D1	

Class Teacher's Comment:

KEEP IT UP

Signature: ANGEL NAKAKE

Head Teacher's Comment:

EXCELLENT RESULTS,

Signature:

NANYONJO PHIONA

NEXT TERM BEGINS ON: 26th May 2025







Domain Registration

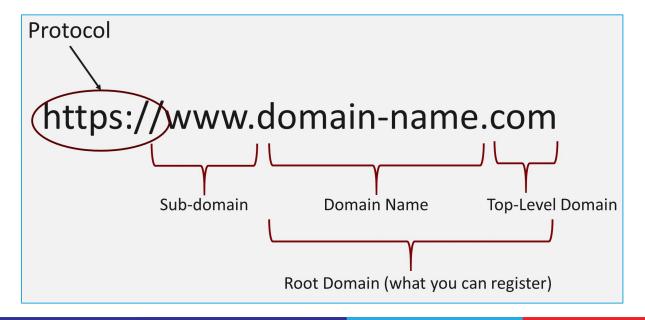
Outline

- What is a domain name
- Why do you need a domain name?
- RENU Domain Registration
- Q & A

What is a domain name?



- Address you type in a web browser to visit a website.
- Represents an IP address



Top level domains



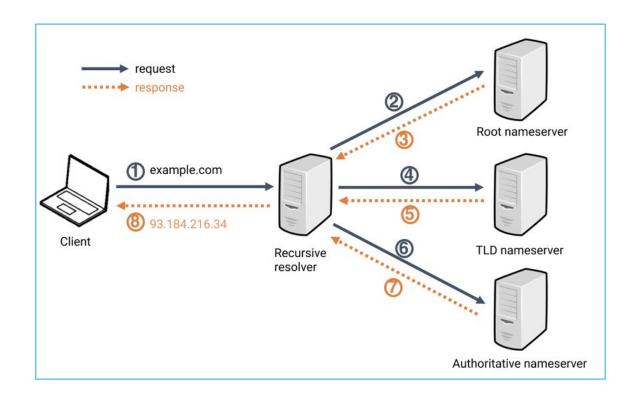






How DNS Resolution Works?





Why do you need a domain name?



- Easy to remember
- You can have professional emails
 - your-name@your-school.ac.ug
- Identity and Branding
- Website Security and protection (SSLs)



RENU Domain Registration Service



Affordable Service

Ready support











Moodle LMS

Outline

- Introduction
- Why Moodle LMS?
- RENU Moodle service
- Q & A

Introduction



Moodle is a free, open-source Learning Management System (LMS) that allows educators to create and manage online courses, offering a flexible and customizable platform for various learning environments. moode m

Why Moodle LMS?



- Open-Source and Free
- Modular and Customizable
- Flexible Learning Environments
- Course Management
- User Roles and Permissions
- Communication and Collaboration
- Assessment and Grading
- Mobile App

RENU Moodle service



- Free installation
- Cloud Hosting (Priced based on the specs)
- Basic customization









Web Conferencing

Outline

- Introduction
- Why Web Conferencing
- Zoom
- Big Blue Button (BBB)
- Web Conferencing at RENU
- Q & A

Web Conferencing in Education

RENU

- Real-time video/audio
 communication over the internet
- Includes features like screen sharing, chat, polls, breakout rooms









Zoom



- A video conferencing platform
- Used for virtual classes,
 meetings, trainings and
 conferences



Works on desktop, mobile, and browser

Big blue button



- Open-source web conferencing tool focused on education
- Works in web browsers—no need to install anything
- Often integrated with learning platforms like Moodle



Web Conferencing at RENU

RENU

- RENU offers
 - Zoom paid licences
 - O Big Blue Button (BBB) setup
- BBB is set up in the RENU cloud.
- Service uptime is guaranteed as per the SLA
- Ready support
- Uncapped bandwidth







Emails

Outline

- What are Emails
- How Emails work
- Why Use emails for communication?
- Email Etiquette Tips
- RENU Email Hosting Service
- RENU emails Vs Gmail
- Q & A

What are Emails



- Electronic mail/digital messaging system
- Used for (official) communication, file sharing, notifications
- Quick and asynchronous (no need to be online at the same time)

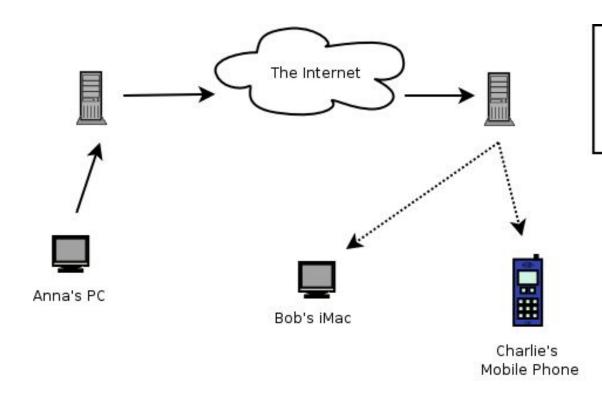


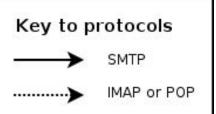


How does the Post Office work?

How Emails work







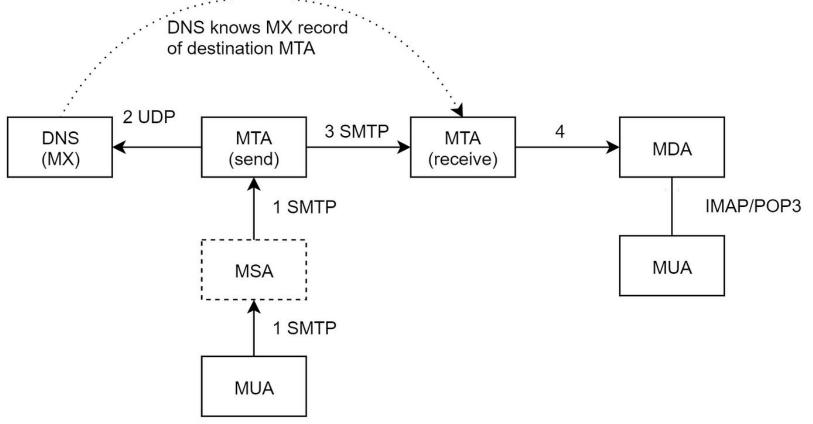
How Emails work - Terminologies



- MUA (Mail User Agent): The app or service a person uses to send and receive emails, e.g., Gmail, Apple Mail, Outlook.
- MTA (Mail Transfer Agent): The server that takes your email and figures out where to send it.
- MDA (Mail Delivery Agent): The service that receives the email from the MTA and puts it into the recipient's inbox.
- SMTP (Simple Mail Transfer Protocol): The protocol used to send emails between servers.
- **DNS:** Domain Name System, is the "phone book" of the internet. It translates the human-readable domain names (like www.your-school.ac.ug) into numerical IP addresses (like 192.168.1.1) that computers use to communicate.

How Emails work - Terminologies





Why Use emails for communication?



- Communication with parents, students, staff
- Sending updates, homework, meeting links
- Record keeping (written trail)



Email Etiquette Tips



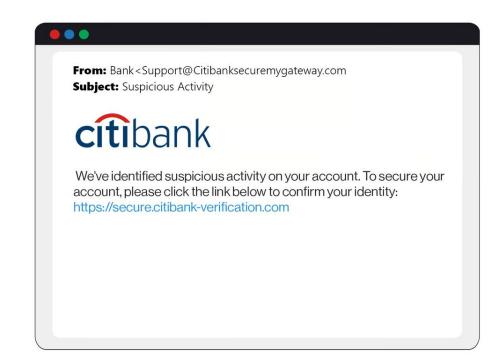
- Use clear subject lines
- Be polite and professional
- Avoid slang/emojis in formal emails
- Sign off properly



Security Tips



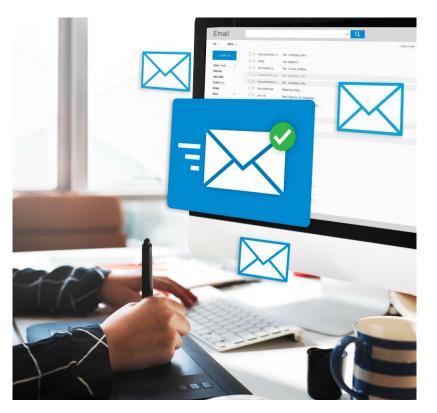
- Don't click unknown links or attachments
- Watch out for phishing (fake emails pretending to be real)
- Use strong passwords and
 2-Factor Authentication
 (2FA).



RENU Email hosting Service



- Cost effective service
- Ready support
- Secure in the RENU cloud



RENU emails Vs Gmail



RENU emails	Gmail
Professional emails (your-name@your-school.ac.ug)	Not professional. (your-name@gmail.com)
Ready Support	No support
Larger, scalable email storage	Limited depending on Google's policy
Full admin dashboard for managing users & access	No admin control over multiple accounts
Includes collaborative tools (Calendar, Events, etc.)	Personal tools; not optimized for org-wide use
Easily create and manage email groups like staff@, department@, etc.	Email groups are not supported on personal Gmail.







THE END

Discussion