

THE ROLE OF ELECTRONIC MAIL IN MODERN LIFE

Gulsanam Anvarjonova

First-year student: Fergana State University Faculty of Foreign Languages

Field of Study: Philology and Language Teaching (English)

Toshboltayev Faxriddin O‘rinboyevich

(PhD). Scientific Supervisor:

Senior Lecturer of Information Technologies Department

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Annotatsiya. Ushbu maqolada elektron pochta va uning zamonaviy hayotdagi o‘rni keng yoritiladi. Elektron pochtaning ishlash prinsipi, asosiy afzalliklari, qo‘llanilish sohalari hamda uning ta‘lim, biznes va kundalik hayotdagi ahamiyati tahlil qilinadi.

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Annotation: This article discusses electronic mail and its role in modern life. It explains the working principles of email, its advantages, and its application in education, business, and everyday communication.

Key words: email, internet, communication, information technology, message, file, online services.

Аннотация: В данной статье рассматривается электронная почта и её роль в современной жизни. Приводится информация о принципах работы электронной почты, её преимуществах и применении в образовании, бизнесе и повседневной жизни.

Ключевые слова: электронная почта, интернет, связь, e-mail, технологии, сообщение, файл.

In the era of rapid technological development, communication has become faster and more efficient. One of the most significant achievements of modern information technology is electronic mail, commonly known as email. According to Stallings (2017), email is a system for sending and receiving digital messages over computer networks, particularly the Internet.

Email has transformed the way people communicate by enabling instant message delivery regardless of geographical distance. Today, it is widely used in personal communication, education, business, and official correspondence. Electronic mail operates through a system of servers that manage the sending, receiving, and storing of messages. Each user has a unique email address, typically consisting of a username and a domain name (e.g., user@example.com). As noted by Comer (2018), email systems rely on protocols such as SMTP (Simple Mail Transfer Protocol) and POP3/IMAP for message transmission and retrieval.

One of the key advantages of email is its speed. Messages can be delivered within seconds, making it significantly faster than traditional postal services. In addition, email allows users to attach files such as documents, images, audio, and video files. This makes it a powerful tool for information exchange.

In the field of education, email plays a crucial role in communication between teachers and students. It is used to share learning materials, submit assignments, and provide feedback. According to Laudon and Laudon (2020), digital communication tools like email enhance the efficiency of the educational process and support distance learning. In business environments, email is considered a formal and professional means of communication.

Companies use it for internal communication, customer support, and document exchange. It helps improve productivity and ensures effective coordination among employees.

However, despite its advantages, email also has certain drawbacks. Spam messages, phishing attacks, and malware attachments pose security risks to users. As highlighted by Kurose and Ross (2021), users must follow cybersecurity practices such as avoiding suspicious links and using secure passwords. Modern email services provide advanced features such as spam filtering, cloud storage integration, automatic categorization, and enhanced security systems. These features make email more convenient and reliable for users. Despite the "death of email" predictions, its role remains secure, with the total number of users projected to grow to 5.61 billion by 2030. It has evolved from a simple text-based tool to a versatile, indispensable, and secure platform for communication.

One of the main advantages of email is its speed. Messages are delivered almost instantly, which is especially important in business and education. Another advantage is cost efficiency, as sending emails does not require any physical materials like paper or stamps.

Email also allows users to send attachments such as documents, images, videos, and audio files. This makes it highly useful for sharing information. According to Laudon and Laudon (2020), email significantly improves communication efficiency in organizations.

Another important feature is accessibility. Email can be accessed from computers, smartphones, and tablets, allowing users to stay connected anytime and anywhere. Email plays a crucial role in education. Teachers and students use it to exchange information, submit assignments, and communicate about academic matters. It is especially important in distance learning systems, where face-to-face interaction is limited.

Students can receive lecture materials, ask questions, and get feedback through email. This improves the learning process and saves time. In the business world, email is one of the main communication tools. Companies use it for internal communication, customer support, marketing, and document exchange. Email helps maintain professional relationships and ensures effective communication between employees and clients.

For example, official letters, contracts, and reports are often sent via email. This reduces paperwork and increases productivity.

Despite its many advantages, email also has some disadvantages. One of the main problems is spam, which includes unwanted advertising messages. Spam can be annoying and time-consuming. Another serious issue is cybersecurity threats. Phishing emails attempt to steal personal information by pretending to be trustworthy sources. Malware can also be spread through email attachments.

According to Kurose and Ross (2021), users should follow security measures such as:

- avoiding suspicious links
- not opening unknown attachments and using strong passwords
- enabling two-factor authentication
- These practices help protect users from potential risks.

Email technology continues to evolve. Modern email services offer advanced features such as spam filters, automatic message categorization, cloud storage integration, and enhanced security systems.

Artificial intelligence is also being integrated into email systems.

For example, smart reply suggestions and automatic sorting make email usage more efficient.

In the future, email is expected to become even more secure, faster, and user-friendly. Despite the rise of messaging apps, email remains an essential tool for formal and professional communication.

Examples of Email Usage

To better understand the importance of email, it is useful to look at some practical examples.

Example 1 (Education):

A university student sends an assignment to a teacher via email. The teacher reviews the document and sends feedback within a short time. This process saves time and makes communication more efficient compared to traditional methods.

Example 2 (Business):

A company sends an official contract to a client using email. The client receives the document instantly, reviews it, and responds with approval. This helps speed up business processes and reduces the need for physical meetings.

Example 3 (Everyday Life):

A user registers on a website using their email address. After registration, a confirmation message is sent to their email inbox. This ensures account security and verifies the user's identity.

Example 4 (File Sharing):

A designer sends images and project files to a customer via email attachments. The customer can easily download and review the files without using additional tools.

Example 5 (Security Awareness):

A user receives an email that looks suspicious and contains an unknown link. Instead of clicking it, the user deletes the email. This is an example of safe email usage and protection from phishing attacks.

Key Terms:

1. **Digital Communication:** The electronic exchange of information, data, or messages using digital channels such as email, social media, or instant messaging.
2. **Email Platforms:** Software or online services that enable users to send, receive, and manage email messages.
3. **Email Server:** A computer or software that processes, delivers, and stores email messages.
4. **Correspondence:** The exchange of written communication, typically in the form of letters, emails, or messages.

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Email, the digital equivalent of a handwritten letter, has come a long way from its humble beginnings. In the 1970s, it was a simple messaging tool used primarily by researchers and scientists. However, the invention of the Internet in the late 20th century ushered in a new era

for email, transforming it into a ubiquitous communication channel used by billions of people worldwide. Its evolution and accessibility have made many wonder: why is email so important to modern communication?

Early email systems were text-only, sending simple messages between connected computers. But as technology advanced, email evolved to include multimedia attachments, rich formatting, and even video conferencing. This constant evolution has kept email relevant and adaptable to changing communication needs, underscoring the importance of email in today's digital world.

Today, email is an integral part of our daily lives and businesses. It serves as the backbone of communication, allowing us to stay in touch with family, friends, and colleagues across continents. Its reliability, accessibility, and affordability make it an essential tool for everything from sending personal greetings to managing complex business transactions.

Email is a form of technology that has increased the efficiency of business by streamlining workflows, enabling instant document sharing, and fostering global connectivity. For professionals, this adaptability and functionality help answer the question: why has email communication grown so quickly as a business tool? Whether you're scheduling appointments or sharing documents, email has become the cornerstone of modern communication. Its seamless integration into our lives and businesses underscores its enduring relevance and influence in the digital age. The enduring power of email: How it drives business efficiency In a world dominated by instant messaging apps and social media platforms, email at first sight might seem like a relic of the past. Yet, it continues to be a cornerstone of business communication, demonstrating its enduring power and significant contribution to driving efficiency. While newer technologies offer immediacy, email's strengths lie in its unique combination of formality, documentation, searchability, and scalability.

Formal communication & record keeping: Email provides a formal record of communication, offering a level of accountability and traceability unmatched by ephemeral messaging services. This is crucial for legal compliance, internal audits, and managing sensitive information. A clearly documented email trail ensures clarity, minimizes misunderstandings, and provides a verifiable history of decisions and agreements.

Efficient workflow & task management: Email facilitates seamless workflow management. Tasks can be assigned, progress tracked, and deadlines established through email chains. Features like email scheduling allow for planned communication, ensuring messages are sent at the optimal time, rather than disrupting recipients' immediate workflows. The ability to attach files, spreadsheets, and presentations further streamlines collaboration and project management.

Searchability & retrievability: Unlike fleeting conversations in chat apps, emails are easily searchable and retrievable. This is crucial for finding information quickly, revisiting previous discussions, and maintaining a comprehensive knowledge base within an organization. Powerful search functions allow employees to locate crucial data without spending hours sifting through files or recalling details from fragmented conversations.

Scalability & reach: Email seamlessly scales across teams, departments, and even international collaborations. It's a readily accessible tool for communicating with a large number of people simultaneously, making it ideal for announcements, newsletters, and mass communication. Its simplicity and widespread adoption eliminate the need for multiple

communication platforms, reducing complexity and improving efficiency. Integration or automation: Email's enduring relevance is further bolstered by its seamless integration with other business tools. CRM systems, project management software, and marketing automation platforms often rely on email for communication and data synchronization. Automation features, such as auto-replies and email filters, significantly reduce manual work and free up employee time for more strategic tasks.

Why has email grown so rapidly as a business tool?

Email has become an integral tool for businesses and has grown rapidly in popularity since its initial introduction into the workplace. Its universal accessibility, cost-effectiveness, and reliability have made it indispensable, while continued improvements in security have further solidified its status as the preferred communication medium. This chapter examines the reasons behind email's rapid rise in the business environment, from its accessibility to its robust security features. The initial appeal: reliability, accessibility, and cost-effectiveness. Email was first adopted by businesses in large part because of its reliability compared to traditional methods of communication. Unlike regular mail, which, even under ideal conditions, takes several days to reach its destination, or phone calls, which require both parties to be available simultaneously, email enables near-instantaneous communication, delivering messages to recipients within seconds. This reliability keeps businesses connected and responsive, minimizing downtime and increasing productivity. Why is email so important to modern communication? Its ability to ensure quick, dependable exchanges is a cornerstone of its enduring relevance.

In addition, email is universally accessible. All it requires is an Internet connection, making it a valuable tool in the increasingly global business landscape. Employees and customers located around the world can communicate without physical barriers, bridging time zones and geographic locations. This universal accessibility not only improved internal communications, but also allowed companies to connect with partners, customers, and stakeholders regardless of their physical location. As remote work became more common, the accessibility of email proved essential to maintaining continuous, effective communication.

Cost-effectiveness was another important factor in the initial adoption of email by businesses. Sending a message via email incurs minimal costs compared to traditional mail or international phone calls, especially when dealing with high volumes of communication. This cost efficiency is a huge advantage, allowing businesses to scale their communication efforts without significantly increasing operational costs. Small businesses in particular have benefited from this affordability, as email allows them to reach a wide audience without the financial burden of traditional communication methods. Email as a secure medium for business communications With the rise of digital transformation in business, the need for secure communications has become paramount, especially given the sensitive nature of the information often exchanged between employees, customers, and business partners. Email providers have responded by implementing robust security features that protect both the content and integrity of communications, making email an even more attractive business tool.

One of the most important security features in email is encryption, which protects the content of messages from being intercepted and read by unauthorized parties. Encryption scrambles the content of emails so that only the intended recipient with the appropriate decryption key can read it. This is essential in industries such as finance, healthcare, and legal

services, where the transmission of sensitive data is common. With end-to-end encryption, organizations can send confidential information over email with greater confidence, ensuring that unauthorized access is nearly impossible. Authentication protocols such as Sender Policy Framework (SPF), DomainKeys Identified Mail (DKIM), and Domain-based Message Authentication, Reporting & Conformance (DMARC) add another layer of security. These protocols verify the identity of the sender and the authenticity of the domain from which an email message originates, helping to prevent phishing and spoofing attacks designed to impersonate trusted contacts or deceive recipients. Organizations rely on these authentication measures to protect against increasingly sophisticated cyber threats. By confirming the legitimacy of senders, these protocols increase the reliability of email and make it a more secure platform for business exchange.

In addition, many email providers offer multi-factor authentication (MFA), which requires users to provide additional verification — such as a code sent to a mobile device — in addition to a password. This added layer of security is especially valuable for protecting business accounts from unauthorized access, reducing the risk of data breaches, and safeguarding sensitive corporate information.

The role of email in modern business: beyond communication

The growth of email as a business tool is not only due to its use for communication; it has also become a critical platform for managing business processes and automating routine tasks. Modern email systems allow organizations to set up automated workflows, schedule messages, and use templates to improve the efficiency of customer service, marketing, and internal operations. For example, automated email responses allow companies to maintain ongoing communication with customers, even outside of business hours. This not only improves customer satisfaction, but also frees up staff time for more complex tasks. In addition, email integrates seamlessly with a variety of business tools, such as customer relationship management (CRM) software and project management platforms, making it central to business operations. By automating follow-up, tracking communication history, and providing analytical insights, email has evolved from a simple communication tool to a hub for managing and optimizing business activities.

The role of email in global communications

In today's interconnected world, effective communication transcends geographic boundaries. Email, a seemingly simple tool, plays a critical role in facilitating seamless global communication by bridging cultural and language barriers. Its written format allows for careful consideration of language and tone, fostering clear and concise communication that can be easily translated or tailored to specific audiences. This eliminates the potential misunderstandings that can occur with verbal communication, especially when cultural nuances are involved. Why is email so important to modern communication? Its ability to facilitate thoughtful, adaptable, and precise interactions across diverse audiences makes it an unparalleled tool in bridging global gaps.

Email also enables remote collaboration and international partnerships. By providing a consistent platform for communication regardless of physical location, it enables teams and individuals to work seamlessly across borders. Whether it's discussing project updates, sharing documents, or coordinating meetings, email keeps everyone on the same page, increasing efficiency and productivity.

When it comes to customer service, email is an indispensable tool for companies with global operations. It allows for quick and personalized responses to customer inquiries, regardless of location. Companies can use email to address concerns, provide support, and build

relationships with customers around the world, ultimately increasing customer satisfaction and loyalty.

The future of email: beyond inbox overload

Despite its age, email remains a cornerstone of digital communication. But with the ever-increasing volume of messages, it's easy to feel buried under a mountain of email. The future of email lies in its ability to evolve and adapt, leveraging new technologies to not only manage this deluge, but to enhance its utility.

AI-powered efficiency

A key area of evolution will be the integration of artificial intelligence.

AI tools can dramatically improve email management. Imagine filters that automatically categorize emails based on content and sender, prioritizing urgent messages and intelligently sorting promotional emails into separate folders.

This AI assistance can also extend to email composition. Imagine AI-powered writing tools that suggest relevant information, generate personalized email templates, and even draft entire emails based on specific prompts. This intelligent assistance would not only save time, but also ensure professionalism and accuracy in communication.

Beyond individual communication

Email will continue to integrate with other emerging technologies, moving beyond basic individual communication. A lot of popular software offers seamless integration with email, allowing team members to discuss projects directly within the context of specific emails. This integration could be extended to project management tools, providing a single platform for task delegation, progress updates, and team communication. This connectivity enhances email's role as a central hub for collaboration and communication. Instead of being just a tool for sending and receiving messages, it will become an integral part of a broader digital workflow.

Email providers are already integrating AI-powered features into their platforms, and collaboration software is becoming more sophisticated. The future of email is bright and promises a more efficient, organized, and integrated experience for users.

AdGuard Mail

AdGuard Mail is a privacy-focused email service that lets you create aliases and temporary email addresses to shield your real inbox. Rather than giving out your primary email when signing up for things, you can use an alias that forwards messages to you — and if one alias starts attracting spam, you just disable it. For short-term needs, like verifying a promo or trying a service, you can use a disposable “temp” email. Those temp inboxes live inside AdGuard Mail, and you can delete them when you're done.

The service is available via web and apps on Windows, macOS, Android, and iOS, making it easy to manage from any device. AdGuard uses secure connections, doesn't read the content of your forwarded alias emails, and gives you control over what happens to your temp inbox.

In the free plan, you get ten aliases and one temp inbox, and if you upgrade, you unlock more aliases, more temp boxes, and even anonymous reply functionality.

What makes email such an essential part of modern communication?

Email is fast, reliable, and universally accessible. It allows instant communication across the world, serving both personal and professional needs. Unlike instant messaging or phone calls, email offers a formal, documented, and organized way to communicate — making it the foundation of global digital communication.

What are the main benefits of using email in business communication?

Formality and record keeping: Creates a traceable communication trail.

Workflow management: Enables collaboration, scheduling, and task tracking.

Searchability: Makes it easy to find past information.

Scalability: Works across departments and international teams.

Integration: Connects with CRM, project management, and marketing tools.

Why did email grow so quickly as a business tool?

Its reliability, low cost, and universal access made it ideal for businesses. Unlike traditional mail or calls, email allows near-instant responses, supports remote communication, and saves money — especially for international exchanges. It’s also accessible to anyone with an internet connection, making global collaboration effortless.

Is email a secure communication medium for businesses?

Email systems provide a range of security features, but it’s important to remember that no system can guarantee complete protection against interception, phishing, or unauthorized access.

Key security measures include:

- Encryption: Protects messages from being intercepted.
- Authentication protocols (SPF, DKIM, DMARC): Prevent phishing and impersonation.
- Multi-factor authentication (MFA): Adds extra login protection. What does the future of email look like?

Email is evolving with AI and automation. Future developments may include: AI-powered sorting, prioritizing, and drafting tools.

Integration with project management systems for real-time collaboration. Smarter inbox management to reduce clutter.

Why does email remain relevant despite new communication tools?

While messaging apps and social media offer speed and informality, email remains unmatched for professionalism, accountability, and versatility. It provides structure, permanence, and universal compatibility — qualities essential for both business and personal use.

In summary, email remains a cornerstone of modern communication because of its versatility, efficiency, and accessibility. It transcends geographical barriers, fostering seamless connections across the globe. Its asynchronous nature allows for flexible communication, accommodating different schedules and time zones.

In addition, email provides a permanent record of communication, promoting accountability and transparency. While newer communication platforms have emerged, email's reliability, affordability, and extensive integration with other tools solidify its continued relevance in the digital age. As technology continues to evolve, email is likely to adapt and remain a vital component of personal, professional, and social interactions.

Adabiyotlar, References, Литературы:

1. Stallings, W. (2017). Data and Computer Communications. Pearson Education.
2. Comer, D. E. (2018). Computer Networks and Internets. Pearson.
3. Laudon, K. C., & Laudon, J. P. (2020). Management Information Systems. Pearson.

4. Kurose, J. F., & Ross, K. W. (2021). Computer Networking: A top Down Approach. Pearson.