Cloud Computing and its Role in Developing Arabic Language Skills

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Abstract
This research delves into cloud computing and its significance in connecting to the world electronically via the internet. Cloud computing offers numerous remote learning platforms, enabling information display, news and ideas exchange, and the use of available windows, pages, and websites. It links these with the four Arabic language skills, illustrating how cloud computing contributes to developing these skills and exploring ways to enhance them through effective activities and practices. This research emphasizes the role of cloud computing as an alternative media tool that connects individuals to a broad audience of readers and interested parties. The study aims to highlight the importance of technology in the educational process, define cloud computing, explain its significance, understand the four language skills and their integration, and demonstrate how cloud computing can be employed in teaching and developing these skills. It also discusses the most prominent applications used in cloud computing. Researchers will follow the descriptive analytical method to explore cloud computing's features and its usage linked to the four language skills. They will analyze how to develop these skills using prominent cloud computing applications and review different aspects of the subject.
Keywords: Cloud Computing, Development, Arabic Language Skills

Introduction
Praise be to Allah who taught man by the pen and taught him what he did not know. Peace and blessings be upon the Prophet Muhammad, the teacher of humanity, and upon his family and companions, and those who follow them in righteousness until the Day of Judgment. Indeed, technology holds significant importance in the educational process, as electronic communication skills provide the needed pedagogical tools, creating an interactive electronic environment for communication beyond classrooms. This environment promotes creativity, development, and the enhancement of various skills, transforming traditional teaching into 21st-century classrooms that utilize interactive and digital curricula and smart devices (Hamid, 2018).

The reach of digital information technology extends further, providing new resources for education and learning. Online learning has become a cornerstone of modern times, replacing traditional classrooms and altering teaching methods. This allows students to learn what they want when they want, and as much as they want, with the added benefit of evaluating what they've learned (Aziz, 2013).

Contribution of the Research to Society

Mastering language skills today opens many doors within society and plays a pivotal role in developing Arabic language skills through ease of communication and forming robust and beneficial social relationships across various fields. Societies remain strong through the strength of their language.

Therefore, we need to enhance our skills due to their paramount importance in interacting with others. This self-awareness helps us understand our capabilities, emotional traits, and the nature of forming a balanced personality. Consequently, this will significantly aid in acquiring other skills in understanding and dealing with people.

Cloud computing's nature, with its educational resources and diverse applications offering exercises, tests, educational websites, and varied platforms, facilitates the collection of valuable information in various fields. This, in turn, motivates community members to develop and master language skills more attractively and effectively, fostering cooperation and interaction through engaging activities and joint projects among learners. They can gain experience from discussions on various language skills.

An example of this is the speaking skill, considered a productive skill while listening is an input skill. The relationship between them is strong; good speakers often excel in listening and paying attention. Many of us may feel anxious and fearful while practicing this skill, leading to isolation from society. Thus, it is essential to engage deeply in society while speaking, not merely conversing with oneself, although this might be necessary at some stage. Speaking publicly and practicing speaking in front of others is the cornerstone of linguistic development, utilizing simple sentences that convey meaning clearly with easy-to-use synonyms, antonyms, and collocations. Simple connecting means between sentences are preferred over complex, convoluted phrases that may obscure meaning.

Research Objectives

1- Highlight the importance of technology in the educational process.
2- Define cloud computing and explain its significance.
3- Understand the four language skills and demonstrate their integration.
4- Demonstrate how cloud computing can be employed in teaching and developing language skills.
5- Discuss the most prominent applications used in cloud computing.

Concept of Cloud Computing

The concept of cloud computing varies among companies, referring to the ability to share, store, and access data and programs over the internet from anywhere, using any prepared electronic device, at any time, with unlimited storage and access speed. It represents a modern alternative to traditional limited methods in size, speed, and access (Al-Hayan, 2019).

It is also said that "cloud computing is the use of internet-based programs to complete user tasks and store results on the internet, known as the cloud. Application programs owned by individuals and organizations are stored on their computer systems' hard drives, while cloud computing uses the internet and the web to transfer many of these activities from the user's computer to other computers on the internet (Bakro, 2018). In summary, cloud computing provides services, resources, and computing systems via the internet, allowing modifications through it, with payments based on resource and service usage.

Why is Cloud Computing Important?

With the development of modern technologies available on the web, including the emergence of Web 2.0 and Web 3.0, and the increasing internet speeds available to users, many information institutions have shifted to providing applications for use through the internet, known as cloud computing. This technology offers users additional advanced features, including cost savings and providing information services to a larger sector of beneficiaries. It also allows beneficiaries and information institutions to store, process, transfer, and share information from anywhere and at any time, without being restricted to personal computers as tools for storage, processing, transfer, and sharing of information. Instead, all these procedures are completed through external devices and servers available on the internet cloud, ensuring information security and protection from hacker or virus breaches (Kalu, 2015).

Integration of Language Skills

Most studies and research have demonstrated that the first step to teaching reading and writing is through speaking. It is essential to build a substantial linguistic wealth for learners before teaching them to read. Problems in reading are often connected with speaking issues. Moreover, listening to stories and retelling them after summarizing helps develop good speaking skills. The content of reading, texts, and dictation provides ample opportunity to practice listening, speaking, and writing skills in an integrated manner, strengthening each other. This proves the integration of speaking with other language arts (Al-Zaidi, 2017).

It is important to understand that teaching one language skill affects the teaching of not. Microsoft Copilot: 3. Big Data Analysis: Cloud computing provides the infrastructure, tools, and services needed to handle big data challenges, such as volume, velocity, variety, veracity, and value. It enables users to scale resources up or down according to their needs and access advanced analytics capabilities, such as artificial intelligence (AI), machine learning (ML), and data visualization. Examples of cloud-based big data analysis platforms include:
  - Amazon Web Services (AWS)
  - Google Cloud Platform (GCP)

4. Social Networks: Cloud computing supports social networks by providing cloud-based platforms that host and manage large amounts of user-generated data. These platforms use cloud computing to scale with traffic changes, offer personalized and engaging user experiences, enable social features such as likes, comments, and messaging, and analyze user behavior and preferences. Examples include:
  - Facebook
  - Twitter
  - LinkedIn
  - Instagram

Conclusion and Findings

First, Some of the Results

- Mastery of language skills in today's world opens many doors within society and plays a pivotal role in developing Arabic language skills through ease of communication and forming robust and beneficial social relationships across various fields.
- The nature of cloud computing, with its educational resources and diverse applications offering exercises, tests, educational websites, and varied platforms, facilitates the collection of valuable information in various fields. This, in turn, motivates community members to develop and master language skills more attractively and effectively.
- Cloud computing, through its multiple applications, will contribute to enhancing cooperation and interaction among community members by engaging in interactive activities and joint projects among learners and gaining experience from discussions on various language skills.

Recommendations

Change teaching methods by using digital information technology, which is a new resource for education and learning, avoiding traditional methods in the educational process, and trying to link these technologies to branches of Arabic language and Islamic studies.

References

Hamid, A. A., (2018),. "The Effectiveness of the 'Edmodo' Electronic Platform Environment Based on Educational Supports to Develop Electronic Communication Skills, Journal of Fayoum University.

Aziz, H. A., (2013). "E-Learning: Philosophy – Principles – Tools – Applications, Dar Al-Fikr.

Al-Zaidi, Z. B. M., (2017). The Role of Digital Age Technologies in Teaching Language Skills to Non-Native Arabic Speakers (The Internet as a Model)," University of Kerala.

Al-Naqah, M. K., (1985). Teaching Arabic to Non-Native Speakers: Foundations – Approaches – Teaching Methods, Umm Al-Qura University Press.

Taima, R. A., (1986). The Reference in Teaching Arabic to Non-Native Speakers, Umm Al-Qura University Press.

Al-Surami, A.B. S., (1434). Evaluation of Arabic Language Teaching Websites for Non-Native Speakers on the Internet in Light of Language Skills."

Al Hayan, K. B. N., (2019). Cloud Computing: Fundamentals, Principles, and Applications, King Fahd National Library.

Bakro, K, (2018). Fundamentals of Computing, Shu'aa for Publishing and Science.

Al-Sharkasi, F. W., Al-Qaseer, A. A. (2024). Cloud Computing: Its Concept and Uses, I.J. O. C. A.I.