Cloud Computing-Based Information System as an Effort for Developing Tourism Village

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Abstract:

Regional development may be facilitated by the use of cloud computing-based information systems. The land may be used for the development of surrounding resources by maximizing its present potential and with the help of effective management. Cloud computing-based information management has the potential to be a promotional tool for the betterment of several regional sectors. In an attempt to build a tourist hamlet, this research will describe a cloud-based information system. It is a literature review. To gather information for a study, researchers read and analyze a wide range of scholarly publications, papers, data sources, and other materials. This study's findings suggest that tourist communities might benefit from cloud computing by storing their data on a centralized server, which offers great security. Users benefit from cloud computing because data may be stored online, eliminating the need to supply physical storage devices like hard disks. Also, the availability of the Cloud Computing-based information system may help the community at large learn more about the village's tourist potential. So, it's safe to say that using cloud computing in tourist towns is a creative, efficient, and successful way to showcase the village's potential to the outside world. Cloud computing makes it easier for travelers to access material on village tourism from any location at any time.

Keywords: Tourist Village, Cloud Computing, Information System

INTRODUCTION:

There is a wide range of ethnicities, religions, linguistic groups, and tribal affiliations in Indonesia. Furthermore, every area has untapped potential in the areas of culture, economics, and the environment. By tapping into the area's natural resources, it has the potential to become a popular tourist destination and recreational hub. Every locality has its own unique tourist attractions, and sometimes one of them may even become famous or emblematic of the whole region. The tourist village is one of the most prominent and often used types of regional tourism [1]. As per the information provided in [2], the growth of tourist towns in recent times has have replaced the practice of regional economic development in several areas. A boost to the local economy is possible via the establishment of tourist settlements. A tourism village is one in which the locals work together to take care of the village and its residents, and who are all aware of the need of contributing their unique set of skills to the greater good of the community so that tourism can flourish there [3,4]. A tourist town may be developed in part

via the use of information technology. The public may simply get the information about the tourist village thanks to information technology (IT). Because IT can work with many different branches of knowledge, it has presently been accepted by numerous sectors of life [5]. The construction of the tourist town will include the implementation of an information service system based on cloud computing. When individuals utilize information systems based on cloud computing, they have more full data at their fingertips, which makes it simpler to oversee the transformation of tourist towns into destinations that are readily accessible by visitors. Cloud computing refers to a manner of running a computer system that makes use of the internet as a central hub for managing software, storage media, and infrastructure as a service (6). Access to data about a certain location is made much easier using cloud computing. Users of cloud computing services don't need to set up a local computer in order to access data online; they can do it all in real time [7]. As a result, factual information on the circumstances at that time may be made public. With cloud computing, data may be stored and made available to service centers rapidly via an adaptable, on-demand, easy-to-configure, and integrated system (including networks, servers, storage, applications, and services) [8]. The cloud computing system makes it easy to store and exchange data with many users across various networks and devices, such as desktops, laptops, mobile phones, and more [9,10]. Cloud computing offers a high degree of operation and service to consumers by combining grid contribution and distributed systems with some new concepts. It is not a new technology, but it does improve upon it [7]. Both tourists and local company owners may gain from cloud computing: the former can make information more accessible and easy to understand, while the latter can run their own operations more efficiently. Building a tourism town with cloud computing is the way to go. Cloud computing may therefore facilitate the promotion of tourism in a region, making it simpler for managers to do so. The researcher used the information provided above to It is called "Cloud Computing-based Information System as an Effort for Developing Tourism Village". The community's information system places more emphasis on the potential of tourist settlements, as

LITERATURE REVIEW:

We need to stay up with current technology breakthroughs since they are happening at a rapid pace. When it comes to the workplace in particular, computers are among the technological advancements that have a profound impact on people's daily lives. As if by magic, the system is perpetually upgraded by new innovations. Similar to cloud computing, it is a method of enhancing and integrating computer systems that are connected to the internet. Thanks to technological advancements, the server now stores all of its data and software on the internet. In order to address issues with the administration of houses of worship, such as the volume of congregation registrations, this system is based on research [11] and is connected to a cloud computing-based information system that improves performance efficiency in internet-accessible houses of worship. Because of this technique, pilgrims may more easily register independently using the app. Cloud computing is a great way for government service systems to streamline and reduce the cost of providing services to the public. Some of the ways cloud computing can be used by the government are as follows: a) it's fast, it integrates data easily, and it gives timely feedback. b) it helps the government store data with large capacity. c) government performance becomes effective because of the speed. d) this system also easily distributes data to various providers quickly. e) it's low cost, which makes it easier for the government to allocate its budget. [12,13] for more information. We can see how government cloud computing technologies function in action here:

Current E-Government	Government Cloud
• Limited services	• Ubiquitous services
• Information island	• Standard APIs
• Network isolation	• Business Collaboration
• Rigid configuration	• Dynamic distribution
• Respective management	• Professional teams
• Respective deployment	• Unified Supervision
• High cost, Low RI	• Low Cost, High RI

Figure 1 Comparison of e-government and government cloud [12]

stated in [14.15]. Promoting tourist settlements via the use of information and communication

technologies is a smart move. This is because the internet has become an integral part of every industry, allowing for the marketing of media via websites. Making the venue more accessible to both domestic and international visitors is the goal of utilizing the website as a promotional medium. There is some variation in the website's information menu as well, including topics such as transportation, gastronomic, homestays, and tourism items. Presented here is the website in accordance with the waterfall methodology, a subset of application development that follows the traditional "waterfall" pattern of doing things from beginning to end. According to studies [6], the website is accessible at any time thanks to cloud computing. Owners or administrators may publish more extensively with the use of cloud computing. An automated system has generated the content on the website in order to facilitate the process of booking tours and other tourist activities. Visitors will be able to save time for bookings without needing to arrive first, thanks to technology. One example of a service provider that makes use of platforms and infrastructure is software as a service (SaaS) applications. In addition, this research employs a system analysis approach, which is executed after interviews with informants who have previously successfully used cloud computing. This research also makes use of system architecture design, which serves as an example of the reservation's planning process. According to studies cited in [16], emerging tourist towns without an information infrastructure are a real concern. In collaboration with POKDARWIS, the Tourism Awareness Group develops web-based information systems. Even while the marketing media for the tourist village is crucial for getting the word out about the services offered by the community, the information and communication technology here is still lacking. As a tourist village manager, you'll find that our web-based information system simplifies both human resource management and time management. Cluster members' people resources, infrastructure, institutions, and goods will be surveyed and observed as part of the first steps in creating this information system. Also done is the research and planning for the tourist village's requirements. Now we move on to providing support with implementation. The program's execution is the last step. Promoting the village information system to the community is now an important step. In addition to serving as a data center, this system can keep tabs on group companies.
Research [15] shows that as data stored in the cloud gets more secure, cloud computing becomes more integrated as a public service assistant for villages. This research makes use of a smart village software that facilitates community-wide efforts to improve village administration and openness in the administration of BUMDes. Since this smart village relies on cloud computing and runs on the Android platform, data management is integrated with cloud computing. As a result, the system can handle enormous amounts of data.

METHOD:

He employs a library research strategy. When doing research to gather and assess information on a certain subject, library research is a valuable resource [17]. During data collection, researchers reviewed and utilized prior research to identify sources of information, and during library research, they sought for pertinent material pertaining to the subject of discussion. This study makes use of journal articles published during the recent five years, many of which include original research. Nvivo 12 Plus's grouped by word similarity feature is used to handle literature data [18,19]. Due to the fact that the data offered are fixed, easily accessible, and can be accounted for, this study makes use of library research. The goal of conducting research in libraries is to enlighten readers about relevant prior work in the field, whether that's through summaries, evaluations, or reviews drawn from a variety of library resources, such as books, articles, and online resources [20]. 4. DISCUSSION AND OUTCOME According to data compiled from searches conducted in early 2021, the total number of internet users in Indonesia reached 202.6 million. When compared to the start of 2020, this figure has grown by 27, or 15.5%. This figure will, of course, keep going up every year. It is believed that the Indonesian people would be able to become news producers in addition to being passive internet consumers, as a result of this phenomena. Many individuals nowadays have turned to the internet as a tool to boost their financial situation. Actually, many individuals have been able to use

internet technology to fill employment openings for others, in addition to serving their own economic interests. The internet has simplified every part of people's lives. People may now have instantaneous conversations with anybody, regardless of their physical location, thanks to the internet. Thus, cloud computing must be implemented so that individuals, organizations, and society at large may reap the full benefits of technology [13,21]. The public has to be exposed to cloud computing since more and more rural areas in our nation are wise about using their potential.

RESULTS AND DISCUSSION:

According to data compiled from searches conducted in early 2021, the total number of internet users in Indonesia reached 202.6 million. When compared to the start of 2020, this figure has grown by 27, or 15.5%. This figure will, of course, keep going up every year. It is believed that the Indonesian people would be able to become news producers in addition to being passive internet consumers, as a result of this phenomena. Many individuals nowadays have turned to the internet as a tool to boost their financial situation. Actually, many individuals have been able to use internet technology to fill employment openings for others, in addition to serving their own economic interests. The internet has simplified every part of people's lives. People may now have instantaneous conversations with anybody, regardless of their physical location, thanks to the internet. Thus, cloud computing must be implemented so that individuals, organizations, and society at large may reap the full benefits of technology [13,21]. The public has to be exposed to cloud computing since more and more rural areas in our nation are wise about using their potential.

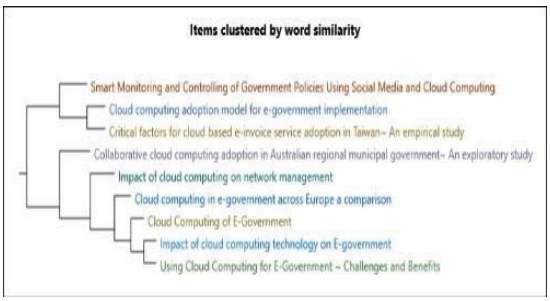

Figure 2 Items clustered by word similarity by Nvivo 12 Plus

When it comes to human resources, cloud computing has its limitations when it comes to developing tourist communities [23,24]. The reason for this is the scarcity of trained individuals who can manage the elderly's information technology and internet needs. Another challenge is ensuring safety [24,25]. Although cloud computing does not keep data in physical form, most in Indonesia still believe that this is the safest way to save data. Thirdly, slow internet is a problem. This occurs because the network limits the capabilities of cloud computing in rural areas. In order to utilize cloud computing, you need a reliable internet connection [6].

CONCLUSION:

It is clear from the aforementioned studies that cloud computing is a great tool for the efficient and successful development of tourist villages. Cloud computing eliminates the need for supplementary hardware, such hard drives, by storing data on a single server. The use of cloud computing has made it much easier for the general public to identify popular tourist villages. Cloud computing also provides vendors in tourist villages with a great opportunity to promote and brand their establishments. Nevertheless, it is important to acknowledge that there are challenges associated with using cloud computing in village development. These include staff members lacking technical expertise, public skepticism over data urity, and intermittent and weak network speeds.

AUTHORS' CONTRIBUTIONS

The study was written by 5 authors. The first writer designed the research design, implemented and analysed the research. The second and third writers guided the writing of the article. The fourth and fifth writers helped the implementation of the research.

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