Development of a Cloud based solution for effective nutrition intervention in the management of lifestyle diseases

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A web based tool is being planned for therapeutic nutrition prescriptions in clinical settings. The cloud based system would have the ability to calculate the nutritional requirements and to guide first line nutritional management to patients and clients automatically. Also, it serves as an electronic medical and dietetic record, and personalised nutrition consultation approach can be client can converse to his/ her personal dietitian at their own convenient setting. The implementation once done would invite more and more queries for personalised nutrition support rather than depending on the set menu plans as in the case of current online approaches. Authenticity of the consultant dietitian would also be ensured by the responsible team providing nutrition support.

Dietary Nutrition Cloud Platform Technology Based on Big Data

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The long-term material shortage is in sharp contrast with the current food surplus. People gradually ignore the excessive food intake, and the accumulation of nutrients in the body is harmful to the body. How to establish a correct understanding of food nutrition, and its scientific and reasonable application in life has become an urgent problem to be solved. The object data processed by dietary nutrition analysis requires high reliability. The massive data processing technology of cloud computing technology meets the requirements, which ensures the accurate and safe access of the underlying user sign data to the system, so as to ensure the accuracy of the processing results. Therefore, based on the application background of big data, this paper discusses the cloud platform technology of dietary nutrition, and designs a simple diet nutrition platform through software and hardware for simulation analysis. The experimental results show that the 20GB file in this paper is composed of 40 512MB small files, and OSS will not perform segmentation operation. Therefore, when OSS is used, the number of maps is 40. HDFS is faster than OSS with the same map number. The BMI value of users with adequate nutrient intake and reasonable dietary structure is relatively standard. Therefore, the amount of nutrient intake can not reflect the quality of physical fitness. Only by taking sufficient nutrients under the premise of reasonable dietary structure can the body shape of users be healthy. The time required by the distributed algorithm increases more slowly, while the time required by the algorithm before the distribution increases faster, which shows that the distributed implementation can improve the speed of clustering immune algorithm to find association rules.

Enhancing Cloud and Big Data Systems for healthy Food and Information Systems Practice: A Conceptual Study

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Cloud Computing is a kind of virtualization technology based on internet. In cloud computing, central remote server plays an important role for healthy data management and applications. It offers handsome efficiency in the field of Computing as well as Information Technology for providing centralized storage, money, processing, and bandwidth. Thus regardless of the size of the institute (i.e. big or small) there is no additional requirement for the establishment of own as well separate IT infrastructure for more and higher business units. Networking Technology and Internet Technology play a vital role in the establishment of cloud computing in different settings. Today it is treated as an emerging technology among the other applied Information Science & Technology. India is strong as well as developed in many senses with a good amount of educational institutes for diverse sectors and community. Cloud computing is applicable in a different field in the current scenario, such as Education, Public Administration, Business & Commerce, Health, and Medicine etc. Interestingly, cloud computing may be applicable in the field of Food and Nutrition. This is a conceptual paper deal with cloud computing related aspects which include benefits, advantages, challenges, and issues. Moreover, the paper also talks about cloud computing applications in different and diverse areas of Food Science, Nutrition and Dietetics. Further, the paper discusses some of the contemporary and future challenges to build Cloud Computing based Food Information Systems.

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