



Importance of Smart Channel for National Statistics and Information in the Context of Sultanate of Oman

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The National Center for Statistics and Information (NCSI) in Oman was established in accordance to the Royal Decree 31/2012 affiliated to the Supreme Council for Planning. It is one of the most important sources for the development and sustainability of Oman's economy and is one of the entities, which have an information bank that helps to create Oman's strategic plan. Most of this information is being used by high-level planners, which include governments, semi governments, and private sectors through the portal and other media sources. However, the majority of the information in terms of statistics is made available to the public through newspapers and magazines. This research paper focuses on the need for developing an information system channel through which NCSI can communicate and pass its information to every individual in the Sultanate of Oman with ease. Some information is required for study at the school level as well and thus, by considering various HCI (human-computer interaction) principles, the authors will be proposing a framework for a new electronic platform, which will be based on interactive media platform, which could be made available on Smart devices as well. This will increase the scope of this research and the outcomes will benefit the majority of the people. The need for the proposed system is evaluated through a survey and the outcomes are analyzed. It was found that the majority of the participants do not have clear information about various services and data provided by NCSI. Further, it was noted that most of the participants agreed that such an e-channel would facilitate to receive various statistics on a timely basis. This research would also include the study of similar systems in other countries and provide recommendations to design an effective framework.

Introduction

NCSI one of the most important sources for development and sustainability of Oman economy and one of the entities which have bank of information in order to create Oman Strategic plan to develop the country.

By the number of information NCSI have I am planning to implement the first project in Oman; the whole idea about creating an platform for students at schools this platform seek to teach the generation and get them to understand the statistic

This platform will have an interactive media, such as game, video, picture, library book and some information about the statistics; these elements make students understand a lot of concept about statistic.

In NCSI, there is no application for children, so I proposed to NCSI an idea to develop a platform where this level of people can understand the statistics and interact with the numbers and figures in smart and interactive way so they can gain the knowledge and this can use in their study. The application value is to add value for schoolchildren to have basic knowledge, so I focus on children age (10-18).



The application value is to add value for schoolchildren to have basic knowledge such as Number of population in Oman, number of population of woman\ men's, number of hospitals, number of schools and more

In now a days not found a kid without phone, I pad or smart device. These become the interested part for phenomena, now researchers are interesting between the children and computer. This led the researchers to have afraid about their behaviors and concern about this interaction. The researchers likely agree this interaction in general because the adults. The cci study look the age between 5 to 12 years old, and this cci Continuation

In corporeality, especially development, learning sciences, product and interesting design. In addition, the cci actually took the inspired from human computer interactive. The most concerned people in the computer is about internet systems and the privacy and the interesting of using products, games and cloud computing, now the technology provider redirect their invest on kid interest because is growing markets. (Read, Janet C., 2013)

For the primary level, we cannot separate math and statistics, the students in this level cannot accommodate what is statistic and mathematic and the natural of the primary school we should not teach the statistic and math as special and separately. Therefore, we can say the mathematics is statistics.

Pereira Mendoza and Swift represent three module to teach statistics and these components are utility, future study, and aesthetics.

Utility:

For the children's the most concern of their world is what they interest of and the experience they gain in their age. The concepts that will be encounter by them later for their career or for their education. They have to learn now and it has to refined and developed so they can understand their surroundings and by the time they will grow up this concept may change or reedit to meet their expectations.

Future study:

The basic statistics curriculum will provide the basis on which to build, both the school curriculum and their lives. In the frame of context, the new job for next few years will be teach statistic and will become progressively more important.

Aesthetics:

Nowadays you have to prove your theory with strong evidence, which normally a numbers. Teaching statistics will make you able to stand on strong approve, which give to your theory. (Pereira-Mendoza, 2019)

References

Pereira-Mendoza, L. (2019, december 01). *STATISTICS EDUCATION OF PRIMARY CHILDREN*. Retrieved from math.unipa.it: <http://math.unipa.it/~grim/EPereira258-264.PDF>

Read, Janet C. (2013). Child-computer interaction. *International Journal of Child-Computer Interaction*, 2-6.

J.C. Read, M.M. Bekker, The Nature of Child Computer Interaction, in: Paper Presented at the



HCI2011, Newcastle, UK, 2011.

O.S. Iversen, R.S. Smith, Scandinavian participatory design: dialogic curation with teenagers, in: Paper Presented at the Proceedings of the 11th International Conference on Interaction Design and Children, Bremen, Germany, 2012.

B. Hengeveld, R. Voort, C. Caroline Hummels, K. Overbeeke, J. de Moor, H. van Balkom, LinguaBytes, in: Paper Presented at the Proceedings of the 7th International Conference on Interaction Design and Children, Chicago, Illinois, 2008.

J. Marco, E. Cerezo, S. Baldassarri, E. Mazzone, J.C. Read, User-oriented design and tangible interaction for kindergarten children, in: Paper Presented at the 8th International Conference of Interaction Design and Children, Como, Italy, 2009.

J.D. Gould, C.H. Lewis, Designing for usability: key principles and what designers think, *Communications of the ACM* 28 (3) (1985) 300-311.

J. Burke, J. Friedman, E. Mendelowitz, H. Park, M.B. Srivastava, Embedding expression: pervasive computing architecture for art and entertainment, *Pervasive and Mobile Computing* 2 (1) (2006) 1-36. <http://dx.doi.org/10.1016/j.pmcj.2005.07.002>.

K. Stenning, C. Gurr, Human- formalism interaction: studies in communication through formalism, *Interacting with Computers* 9 (1997) 111-128.