

**STIZ69920 Dissertation**



# **Guidelines for digital storytelling for Arab children**

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## **ABSTRACT**

Children are getting more exposed to various technologies in teaching-learning. Various types of teaching-learning have been designed, including interactive digital storytelling. In Malaysia, local children have been clear about story-based learning materials. However, the situation is a little bit different with Arab children. Because the number of Arab children migrating into Malaysia is increasing, for following their parents who are studying at higher levels, they have to also make themselves familiar with the local scenario. In accordance, this study is initiated, to identify their acceptance towards story-based learning materials, or specifically interactive digital storytelling.

Hence, this study reacts proactively, by approaching Arab children asking for their feedback on whether they have any desire for interactive digital storytelling. Through a series of interviews, this study found that they have a strong desire and tendency. Then, the following objectives have been stated: (1) to determine the components for the interactive digital storytelling for Arab children, (2) to design and develop a prototype of the interactive digital storytelling, and (3) to observe on how the Arab children experience the interactive digital storytelling.

User-centered design (UCD) approach has been gone through in ensuring that the objectives are achieved. The process of determining the components for the interactive digital storytelling was carried out by directly involving Arab children and their teachers from three preschools in Changlun and Sintok. It was similar with the efforts in determining the contents, and interface design until the prototype development. Having the prototype ready, user testing was carried out to explore the way Arab children experience the prototype. All the processes involved various techniques through observation, interviews, and noting.

Specifically, the user testing involved qualitative and empirical data. Qualitative data were gathered through observation, meanwhile the empirical data were gathered using Computer System Usability Questionnaire (CSUQ) tool. In the end, having data processed, the findings show that Arab children are highly satisfied with the prototype. Scientifically, the developed prototype is a mirror of the obtained guidelines, obtained through the UCD seminars. Hence, the positive acceptance on the prototype reflects positive acceptance on the guidelines, as the main contribution of this study.

Besides the guidelines as the main contribution of this study, the developed prototype is also a wonderful contribution to the Arab children and their teacher. They will be using it as part of their teaching and learning materials.

## ABSTRAK

Kanak-kanak kian terdedah dengan pelbagai teknologi dalam aktiviti pembelajaran-pengajaran. Pelbagai jenis bahan pembelajaran telah direka bentuk, termasuk penceritaan digital interaktif. Di Malaysia, kanak-kanak tempatan begitu arif mengenai bahan pembelajaran berasaskan penceritaan. Namun, situasi adalah sedikit berbeza dengan kanak-kanak Arab. Oleh kerana ramai kanak-kanak Arab membanjiri Malaysia ekoran mengikuti ibubapa mereka atas urusan pendidikan tinggi, mereka juga perlu membiasakan diri dengan suasana setempat. Oleh itu, kajian ini mengenalpasti penerimaan mereka terhadap bahan pembelajaran berasaskan penceritaan, atau khususnya penceritaan digital interaktif.

Justeru, kajian ini mengambil langkah proaktif, dengan mendekati populasi kanak-kanak Arab dan mendapatkan maklumbalas sama ada mereka berkeinginan kepada penceritaan digital interaktif. Melalui temubual yang dijalankan, kajian ini mendapati mereka mempunyai keinginan dan kecenderungan yang nyata. Lantas, objektif berikut telah ditetapkan: (1) untuk mengenalpasti komponen-komponen yang perlu bagi penceritaan digital interaktif bagi kanak-kanak Arab, (2) membangunkan sebuah prototaip penceritaan digital interaktif, dan (3) memerhati pengalaman kanak-kanak Arab dalam menggunakan penceritaan digital interaktif.

Pendekatan reka bentuk berpusatkan pengguna (UCD) dilalui bagi mencapai objektif-objektif tersebut. Proses mengenalpasti komponen-komponen dalam penceritaan digital interaktif dilalui dengan penglibatan langsung kanak-kanak Arab beserta guru-guru mereka dari tiga tadika di Changlun dan Sintok. Begitu juga dengan usaha menentukan kandungan, dan reka bentuk antara muka sehinggalah pembangunan prototaip. Setelah prototaip disiapkan, ujian telah dilakukan bagi meneroka pengalaman pengguna. Kesemua proses tersebut melibatkan kaedah yang pelbagai melalui pemerhatian, temuduga, dan catatan.

Secara spesifik, ujian pengguna melibatkan amatan secara kualitatif dan empirical. Pengamatan kualitatif dilakukan melalui pemerhatian, manakala ukuran empirical dilakukan melalui alatan *Computer System Usability Questionnaire* (CSUQ). Di akhir sesi pengujian, setelah data diproses, dapatan menunjukkan kanak-kanak Arab amat berpuas hati dengan prototaip yang dibangunkan. Secara saintifik, prototaip tersebut adalah terjemahan kepada garis panduan yang dihasilkan melalui seminar-seminar UCD. Maka, penerimaan yang baik terhadap prototaip adalah penerimaan yang baik terhadap garis panduan yang terhasil, sebagai sumbangan utama kajian ini.

Selain garis panduan tersebut sebagai sumbangan utama kajian, prototaip yang dibangunkan juga adalah sumbangan yang amat dihargai oleh populasi kanak-kanak Arab serta guru-guru mereka kerana mereka akan terus menggunakan prototaip tersebut dalam aktiviti pembelajaran mereka.

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# **CHAPTER ONE**

## **INTRODUCTION**

### **1.1 BACKGROUND**

Story telling is famous in various cultures. It is a famous medium of communication. Mothers always tell stories to children about their past lifestyles, success stories, and steps in facing hurdles in their life. Meanwhile, children pay attention to the stories, which is narrative-based, utilizing hearing abilities with interest. It is a memorable time for a family. The storytelling is not just an activity, but it conveys lessons to learn. Children learn from the storyline to guide them in facing the coming days, take the good elements in the storyline as guidance, and avoid repeating the mistakes their mothers have gone through to prevent themselves. This is supported by Livo and Rietz (1986) who argue that a story is a restructured everyday experience through which people come to make sense of know, remember, and understand the surroundings. Through stories one explains interpret, and assess situations, experiences, and ideologies, leading in turn to the creation of new meanings and knowledge (Ohler, 2013).

Not only it conveys messages, but storytelling can make the messages clearer to the listener (Schafer, Valle, & Prinz, 2004). In fact, Gourlay (2013) discovered that the storytelling activity creates and establishes relationships among the listeners and between the narrator and the listeners. In a family in the above paragraph, the relationships between mothers and children will be much closed; containing the elements of caring, loving, appreciating (Johnson, 2009),

The contents of  
the thesis is for  
internal user  
only

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