Research Topic Proposal

Group Members

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Proposed Research Title

Development of Web-based Computer Aided Instruction for Nursery Students

Scope of the Research Project

Due to the danger imposed by the current pandemic to the masses, almost every aspect of the society has halted operations that require close contact with other people and educational institutions are one of them. Because of this new trend, both the teaching and learning processes have shifted towards online classes and assessments proved to be a drastic change for the students and teachers alike. Another effect of this change is that toddlers who are supposed to have been starting school are ultimately hindered by the subsequent events. And even if the nursery schools decide to transition to an online medium for learning, software that are currently used for learning are too complex for the children to comprehend which makes it even harder for the teachers to keep the kids engaged in what they are trying to teach. On the other hand, toddlers are usually not tech savvy as to navigate through learning software unlike grade school and beyond. As a solution to this, we propose a web based computer assisted instruction system designed for toddlers to enable them to learn.

Kid's Area

Toddlers will find different interactions with pictures, songs and games that lets them engage in different learning activities in an entertaining way. These activities aims to enhance their motor and language skills as well as expand their imagination.

- **Numbers** - Teaches the kids how to identify and practice counting numbers.
- **Alphabet** - Teaches the kids about the alphabet letter by letter using words that corresponds a specific letter.
- **Colors** - Allows the kids to identify different colors visually to be able to relate them things around them.
- **Shapes** - Allows the kids to identify different types of shapes visually to be able to relate them things around them.
- **Animals** - Teaches the kids about different kinds of animals and their names and relate them to one another.
- **Food** - Teaches the kids about different kinds of food and what they are called.

Parents Area

They have access to progress reports that allows them to view all the units and topics within the curriculum section. It allows the parents' to monitor their child's activities in the timetable.

Teacher's Area

They have access to activity management that allows them to add new activities based on learning modules and track the activities they have given to their pupils.

The system is developed using web development techniques (HTML5, CSS3, JavaScript) that let us design the system layout. The system will be dynamic using programming tools such (PHP v7, MySQL DBMS). The information will be stored in the database and viewable on the webpages of PHP v7.

Comments from the Panel Members:

- *Contents must cover kindergarten and pre-kindergarten based on the requirements of the government body that governs pre-school.*
- *Must be viewable in mobile devices*
- *The completed software must be recommended by 3 pre-school teachers*

Approved by:

J. M. Ogalesco
Signature over Printed Name

J. R. Tan
Signature over Printed Name