DEVELOPMENT OF AUTISTIC CHILDREN

MINI PROJECT REPORT

Ву

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CERTIFICATE

This is to ce	ertify that Mr. /Ms		
Roll No	Moodle Id	Semester	has completed the mini
project entit	eled "DEVELOPME	NT OF AUTISTIC	CHILDREN" in the subject
WEB DESI	GN as laid down by	University of Mum	bai in satisfactory manner
within the p	remises of Institute d	luring the academic	year 2020
Date:			
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ABSTRACT

AUTISM is a complex neurobehavioral condition that includes impairments in social interaction and developmental language and communication skills combined with rigid, repetitive behaviours. Children with autism have trouble communicating. They have trouble understanding what other people think and feel. This makes it very hard for them to express themselves either with words or through gestures, facial expressions, and touch.

As much as taking physical care of autistic children is required, parents are required to continuously work on their mental development as well. There are a lot of autism organisations like the 'Autism Society', an international level American organisation which helps the autistic children through various activities.

However, it is not always possible for the guardians to take their child physically to the location of such groups. In that case, this website would help them to engage their child in fun activities, which would work on his personality and all round mental development. There is also a possibility that some families of such special children live in remote areas where they do not have access to locations of autism organisations. But since Internet is developed all around the world and everyone has access to it, we decided to create a website that would help solve this problem.

Our approach to this problem was that how could we make it possible for the autistic children all around the world, to be provided with activities that would help them improve their social skills and mental strength and basic interactive knowledge. Then, we decided to create a website for the same which would consist of various games that would help the children to strengthen themselves mentally. In the games of this website, various human emotions are included which will help them improve their social interactions with other people and they will be able to recognize the moods and states of a human for better interaction. Also, colour games would help them to analyse and differentiate colours all around them making them more intelligent.

Also, as the child is playing the games, the progress is recorded and a report of the child is developed and can be accessed by their parents in order to track their development. This report facility helps the guardian to realise and analyse the development and level of intelligence of their child. They can track the scores of their child in the game thus concluding how well he/she performed and thus helping out in the required area of concern.

To conclude, this website would work on an all-round development of autistic children by the means of fun games that they would love. And the guardians of the respective child can keep a track of their performances. By analysing their performance on the basis of scores, they can realize in which part of their development they should focus on improving more. For a more relevant results of the game, real time images of human emotions and colours have been used so that the children can implement them in their own real life. Relating the games to real life would help them interact better by remembering their performance in the game, eventually making it their routine thus improving from their condition.

INTRODUCTION

Welcome to AUTISTICO! This is a website specially designed for autistic children and their parents or educators. This website provides you with fun games and activities. The user friendly interface of this website, makes it easy for not only the parents but also the children to operate this website. Keeping in mind the challenge it is for autistic children, we have put in maximum efforts to make this website more interesting and interactive for the children. The colourful graphics would attract them and keep them engaged to explore more of this website thus developing their mind-set. Considering their repetitive nature, we would use that positively through a game which would help them make the basic values of interaction a repetitive trait or a mind memory for them. This would make it easier for them to draw conclusions about how to react in the real life.

The educators or parents of the children will be provided complete information of all the activities of their child on this website. Every game he/she plays will be recorded in the database. The scores of their child will be recorded and displayed in a report. This report will contain all the scores and achievements of the child from day 1. By comparing these scores, the educators or parents can evaluate where the child is lacking and how can they improve that. Progress over the time can be tracked by this report which basically shows how the child has grown up with time.

Autistic students typically require a much different learning structure and environment than students who are not on the autism spectrum. This can cause challenges for both educators and parents of autistic students as well as the students themselves. Our website was inspired by a lot of websites and organisations that work on development of Autism. Fortunately, there are many different education resources and games that are available specifically for autistic students, their families, and their educators. These resources are definitely worth checking into if you are looking for helpful materials to support an autistic student's educational program. One of the websites addressing the same is: Autism Games integrates two websites: www.autismgames.com.au is a site for parents and teachers, giving instructions on how to use the games and their purpose. www.wwizkidgames.com is the portal through which the children can access the games, with parental controls to limit other computer and internet functions.

The purpose of this project is to assist children with moderate to severe autism to develop independent living skills.

PROPOSED SYSTEM

SYSTEM DESIGN

A website is a set of different web pages under a single domain, that runs in a web browser and is created in a browser-supported programming language (such as the combination of JavaScript, Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS)). HTML is the communication standard used by the World Wide Web and a protocol that enables a web browser to retrieve text, graphics, sound and other information from a web server. CSS is a style sheet language used for describing the look and formatting of a document written in markup language. PHP was chosen because it supports all major databases including MySQL. PHP has multiple layers of security to prevent threats and malicious attacks. It has a readable with easy syntax. PHP can be used to design any type of website with a lot of traffic and it is easily deployable.

The system database was designed with MYSQL Database on Apache web server with PHP MYAdmin as the database administrative. PHP MYAdmin is an excellent free set of scripts that provides an administrative interface for MYSQL database(s). It is easy to add, remove, edit, backup and view the databases using this and it is especially useful when trouble shooting the databases. MySQL (back—end software) provides the database for this hardware requirement for the web based third year students project website. The database is responsiblefor keeping the record of scores and improvement, lecturers and the projects uploaded. The choice of MYSQL as the back-end software is because it is an open source database system which can be downloaded and used by the developer for free. It occupies very less disk space and can easily be installed in all major operating systems like Microsoft windows, UNIX and LINUX. It is secure as it includes solid data security layers that protect sensitive data from intruders. It is also scalable and can handle almost any amount of data.

SYSTEM IMPLEMENTATION

The basic function of the developed website includes user management which helps the user itself to manage all the data of his own child. There is a login system which will allow the user to create an account on this website to access all the features provided by this website for the autistic children development. The design of the web based third year student project 'AUTITICO' was developed with the use of HTML, PHP for the programming, JavaScript, Cascading Style Sheet (CSS), MySQL as database for dynamism and tested on an Apache web server, hosted on the A.P.Shah Institute of Technology.

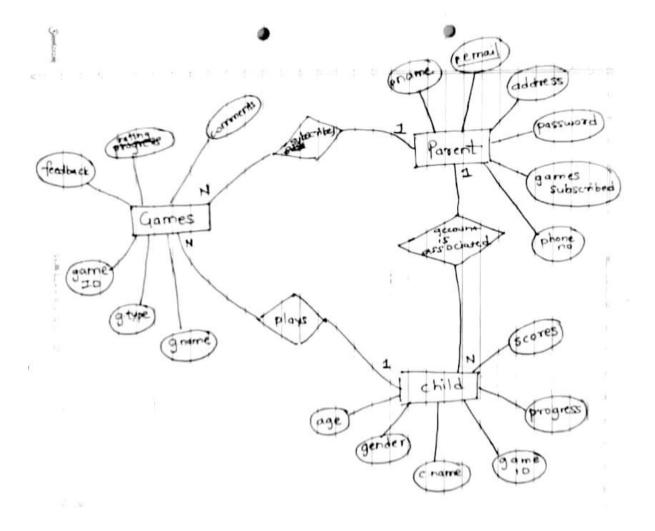
department of Computer Science intranet. A basic internet connection is all you need to utilize this website to its fullest. Ready to Roll!

SYSTEM REQUIREMENTS

No special requirements needed for the use of this website. Just a basic internet connection required to access and use this website for the autistic children. Keeping in mind the universal usage of this website, no special system requirements are adopted as we created a very user friendly website with just basic requirements and a basic network. It becomes easy for not only the guardian but also the child to use this website with ease.



We have developed a website and hosted it on the server in order to establish the usage of it, for the development of the autistic children. A user friendly interface for that parents and their respective children to work on the shortcomings of autism. Development for a better future. Accessing this website from anywhere in this world even in remote areas. Thus, contributing towards betterment and providing a helping hand to AUTISM.



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