DEVELOP SYSTEM FOR MEASURE THE REACTION AND VISION FLOW IN CHILDREN IN AGE (11_14)YEARS

SUHAIL S.M.ALQRINAWI

Palestine University, Gaza strip
E-mail: Suhailalqrinawi@gmail.com

Abstract - In this paper we are discus about the reaction in the children and how can we predict the good level of reaction with children or bad level. As we know the measure of reaction ,Mental and behavioral disturbancesn in the childhood are social proplem in the life of person. By the knowing the level of reaction on (11-14)years children we can avoid the future proplem will the parents' face it with there children , The parent will know the rate of their child and how he cans response to around action.We propose to design prototype to measure the reaction of children by the color and the focusing of the position for the shap in this prototype .in this paper the parents' will can get reaction report from the new prototype and go to doctor to check the reasons impact in the children reaction.

I. INTRODUCTION

We believe every child deserves the right to grow up safe and the parents' do there best to avoid there children the risk of lack of reaction in the life(Williams and Lebrun 2009).Relation between the brain and human reaction depend in emotional stimuli and the personality stability, the eaction in children related with they parents' nuturing attitudes and the parent personality .This investigation of the reaction and stability for children we find two things play important role in the children reaction namely Electroencephalography(EEG) and Magnetoecephalograph(MEG) and these are effecte by emotional stimuli,also we can find the children reaction influnce by they parents'feature and parents' nuturing attituds(Mizuno-Matsumoto, Hayashi et al. 2010).

The problem

By the way ,the parents' sometimes will face alot of problems when there children grow up without known the reaction rate with him ,and the reaction in children will effect by alot of things , one of them the behaviour of the parents' and the socity around them ,this problem will show and it will effect in the absorption in the school and the treatment with other ,some times the weak of children reaction will effect in dealing with acts that requir quick reaction of the children .

II. THE METHODOLOGY

In the development of the proposed system, this study has used prototype development processes methodology (Laudon and Laudon 1995), its phases are shown in Figure 1

The first step in system development processes is determined the needing and requirements that should be in. The requirements of the system have been gathered from studying the needs of the system before develop it, the next phase of this methodology illustrates the requirements in details. After requirements gathering process, the prototype should be built and prepare it to evaluation process. The development process has used some technologies and tools to accomplish its target, the following are list of technologies and tools that was used.

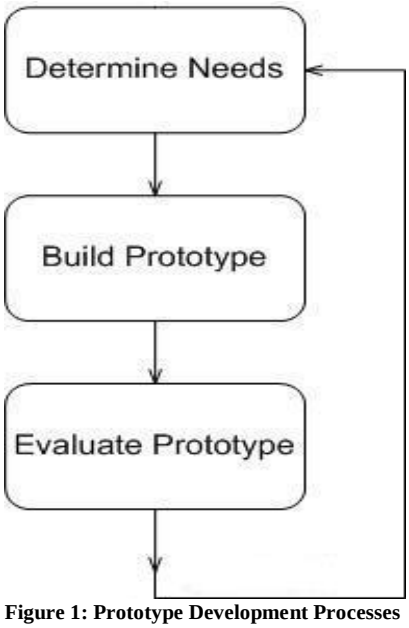


Figure 1: Prototype Development Processes

Related work

Attention Deficit Hyperactivity Disorder (ADHD) is a disorder that inhibits an individual's capacity to regulate activity level, inhibit behavior. ADHD is the most common developmental disorder of childhood, affecting 5-15 % of school age children. The current ADHD diagnosis in children is subjective and varies according to the method and opinion of the specialist. Generally it involves interviewing the children, parent, teachers and school staff, etc . The specialist will then incorporate and analyze all of the data obtained and make a decision based on his / her findings. These tests tend to assess the level of attention, the level of activity, and the impulsivity

control in an objective manner. Therefore been introduce an objective , practical and quantitative means of assessing ADHD by combining a portable multi-channel wireless EEG acquisition and analysis device with a quick (15 – minute) auditory – based test of maintenance of attention . The system is developed for the identification and quantitative evaluation of children with ADHD and for gauging the effectiveness of medication on neurobehavioral indices and parameters(Modarres-Zadeh, Xueyan et al. 2005).

Developing Technologies

The following are the main technologies that have used during the system development phase:

- Java programming language has been used to implement the system.
- Java creator technique has been used to implement the measurement reaction system.
- Java Server Pages (JSP) has been used to implement the system's presentation layer.

1. Developing Tools

JCreators IDE has used to develop the Java classes' business methods.

The system has completely used Java, IBM Rational Rose software was used to analyze all operation and methods.

System flow

1. The first of all the parent will bring there children to clinic which use this system
2. The doctor will ask them about the information of children then he put the information in the system.
3. The doctor will provide the system by the number of the star which will appear in the screen.
4. The doctor will put the speed delay of the star in the system.
5. The children must know the position of the starting of the star appearance.
6. The doctor will put the value in table of data.
7. The system will show the result after ten time test for the position.
8. The result will contain about the real position that the star appear on it and the the standard deviation.
9. Finally, Thestandard deviation near to zero the reaction of the children is good else the reaction is weak and the parent must take there children to specialist doctor.

Project use case

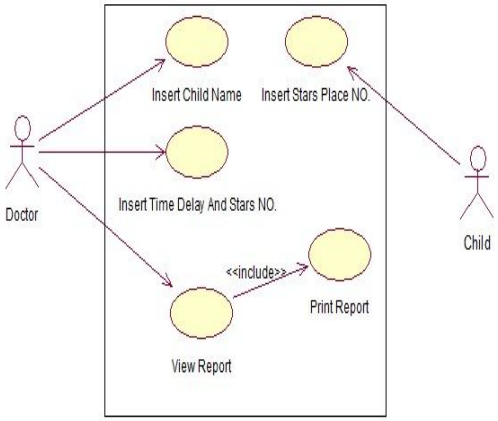


Figure 2: Project use case

CONCLUSION

This research contributes in knowledge of children's reaction and vision flow. Incomparison to related studies, this research explorer the children reaction level to avoid the children from the risk of the lack of reaction in the life. The nature of the parents has a significant effect on the reaction of the child , in addition to that , there are two things play important role in the children reaction namely Electroencephalography(EEG) and Magnetoecephalograph(MEG) as well ,these are effect by emotional stimuli,also we can find the children reaction influnce by they parents'feature and parents' nuturing attituds(Mizuno-Matsumoto, Hayashi et al. 2010).

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