ADHD CHILDREN MONITORING SYSTEM FOR BEHAVIORAL CHANGE USING INTERNET OF THINGS

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***Abstract* — ADHD (Attention deficit hyperactivity disorder) is found in 10 million people in India every year. There are three types of ADHD, they are, ADD(Attention deficit disorder),HDD(Hyper-activity deficit disorder) and Full ADHD(Attention defict hyper-activity disorder). All the cognitive behavioral treatment approaches are based on child's behavioral assessment through pen and paper procedures.**

This project aims to get the procedures automated as much as possible. This project mainly monitor's the movement, speech modulation and attentiveness of the already diagnosed children with ADHD. This project uses two physical entities one of them is a wearable device which monitors the movement and speech modulation of the child and addition to it, it also alert the child with ADHD. The other is a device which monitors the attentiveness is placed on the study desk of the child affected by ADHD. The data which is collected by the sensors are stored in Google cloud platform and analysed. This analysed data is sent to the parent and doctors through a web application and a Android application.