6COSC006W – Final Year Project Report

KinderCare

Samaraweera Waramunige MenukaJawalitha (2017280)

Supervisor: Mrs. Kalpana Weerawardhana

This report is submitted in partial fulfillment ofthe requirements for the BSc (Hons) Business Information Systems degree at the University of Westminster.

School of Computing &

EngineeringUniversity of

Westminster

Date: 03/05/2021

Abstract

Child mental health is considered one of the most important aspect in the context of raising a child. It has been proven that a statistical figure higher than 20% of children and young adults worldwide is exposed to some form of a mental illness. According toa several psychological studies it is concluded that these mental illnesses are developed mostly during childhood and a certain number of cases continue until and beyond adulthood which directly affect their personal and professional life. Behavioural disorders are a mental health conditions which fall under mental disorders. Among these behavioural disorders, Attention Deficit Hyperactivity Disorder (ADHD), Oppositional Defiant Disorder (ODD) and Conduct Disorder (CD) are the most common behavioural disorders which are identified in children. It has been estimated that a 7.4% of children aged 3 to 17 year has been identified with behavioural disordersworldwide.

To counter this growing threat, it is important to identify the children exposed to behavioural disorders by analysing the symptoms. Currently there are no proper applications which has been dedicated for the sole purpose of detecting behavioural disorders in children even though a plenty of tools are there to detect mental health conditions of adults. When it comes to behavioural disorders, it is not an easy task identifying behavioural disorders since obtaining data to analyse is not something which is happening efficiently.

KinderCare application is built with the aim of addressing the problem of identifying behavioural disorders of children by analysing the data fed in to the system by teachersand parents using a standard rating scale.

Key words:

Child mental health, Behavioural disorders, Attention Deficit Hyperactivity Disorder, Conduct Disorder, Oppositional Defiant Disorder, Identification.

Samaraweera Waramunige Menuka Jawalitha