

Bengali Communicative Android App for Autism Personnel

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INTRODUCTION:

In Bangladesh, the awareness and knowledge about autism is not adequate. Despite our government's utmost effort and work, mass people of our country is still in dark about autism. The mentality about autism is negative and people are very hesitant to even say that their children have autism spectrum disorder. That is why, it becomes more challenging to train and prepare kids with ASD from an early age. This is where an android based communicative app can have a huge impact. A kid can play and learn using the app. We are first in Bangladesh who started working on Android communicative app in Bengali language. This is the first app and only resource in Bangladesh for autism related people for communication purpose in Bengali language where they can learn to communicate. This is an educative app where all children can learn with fun.

MOTIVATION:

Autism is a rapidly growing problem all over the world. Bangladesh is no exception. But unlike other countries, it lacks the technological support in this regard. This draws our attention towards building an app that helps the autistic personnel. The most acute problem of such a person is communication problems such as conversation with others, interacting with others, sharing emotions, identifying and using household objects etc. This motivated us to build an android based communicative app in Bengali language and also keeping Bengali culture and lifestyle in mind.

APP MAPPING:

This app is based on android platform. This app is in Bengali font containing ingredients of Bengali lifestyle. The homepage offers the user multiple options such as learning and playing. If a user chooses to learn, he/she then have the option to learn about various things. When he choose any of those option he/she will find pictures and names with a demonstration of how to pronounce those. If a user choose to play, he/she will get a level based puzzle game where the difficulty of the game adjusts depending how the user plays. The app also provides the user to learn the letters of Bengali and English alphabets along with the numbers. The app also deals with the problem of autistic

personnel to differentiate the various emotions of human life by demonstrating them.



Figure 1: Some screenshot from app

APP STANDARDISATION:

Before developing our app, we talk with some autism related people about what kind of things they need and we designed our app taking their feedback in account. We followed strict standardization to meet the needs of autism patients. The colors were specially maintained and tested for accommodating with Autism Spectrum Disorder to make it convenient for them. While designing the interface, special attention was given to make them comfortable. A clean and precise theme was chosen. We tried to use realistic pictures which are coherent with things that the personnel tends to face in everyday life. Any harsh noise or distracting music were strictly avoided to maintain the standardization. Totally self-taken images were used to keep the contents copyright free. That is how we maintained the standardization and ensured quality.

CONCLUSION:

The app is specially designed to teach an autistic personnel to communicate with others about the household things and emotions in context of Bengali lifestyle. We hope that this app will help autistic personnel to overcome their communication problem.

REFERENCE:

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