

BrainEd

Sector

- Education and Healthcare

Technology

- React.js,Laravel,MySql,Python,MQTT

Company Background

- Brain Research and Analytics Company

Project Overview

Brain Computer Interface(BCI) device and app to track student's cognitive abilities such as their attention, focus, memory etc. while they are learning with the help of wearable hardware and thorough analytics software. This wearable BCI can track a student's mental and emotional behavior and can guide the students to improve their learning through brain analytics.

Client Background

The Indian based client has a vision to create an AI based BCI Device to be integrated in the Indian Education System so that the mental state and brain activity of the student while he/she is learning.

Business Needs

Each student has a different learning curve as well as different mental state while studying, which results in difficulty to learn some subjects while securing good marks in another.

The Challenge

Due to the competition between educational digital platforms, the real education system requires a deep understanding and knowledge for developing the software that accurately collects the brain data sent via BCI device. It was a challenge to draw an application that is highly responsive, accurate for collecting brain data of each student resulting in bulks of data over a short period of time.

Our Solution

We have implemented a robust solution looking forward to client needs. The app screen layouts are designed and developed in such a way to make the teacher's interface interactive. The teacher can easily download and sign up to select the subject, topic and chapter before starting the session to collect the data via BCI.

Some of the other noticeable features of this app are:

- Makes day to day learning easy and transparent.
- Record Student's attention, focus, and emotional well being using a sensor placed on their forehead.
- Helps teachers to know live stats like average, lowest and highest attention in a live class.
- Helps teachers to know the weak spots of a child simultaneously so they can help children better to understand the topics that are being taught.