

# Sound Off

## Automated attendance tracking

### Project description

Many teachers feel the need to require attendance by their students. Others are required by their school or district to do so. 5 minutes of roll call is 10% of class instruction wasted in a 50 minute class. We will create an attendance application that will allow teachers to automate attendance tracking in a way that is fast, secure, and accurate.

### Team

I'm looking for one or two others to join our team. We currently have Jeremy Mumford and Daniel Brewer.

### Implementation

First we will use an SQL database, then go to NoSQL.

SQL

Lots of options here. I've used mariaDB, it's pretty good.

No-SQL

Once things key bigger we can switch to a key-value database.

### Business

Once our product is viable, we could offer a subscription based service for one year of attendance tracking. This can be sold for a single class, several classes for a teacher, an entire

school, a district, a state, etc. The state of Utah allocates approximately \$4 billion every year towards education. An app that increases class instruction time by 10% would be a game changer.

## **Operation**

For now the team will run everything, with responsibilities divvied out based on expertise. If things take off and become wildly successful, then we can worry about hiring more people and getting a real organization going.

## **Legal**

The business will be a Utah LLC. But let's make sure we have a good product before we go making an LLC or anything like that.

## **Technical**

Our priorities will be:

1. Determine how to track attendance (options include but are not limited to: NFC, geo fence, time fence, QR codes, and combinations of all)
2. Choose an initial SQL database for a prototype
3. Choose which programming languages to use
4. Implement a MVP app

## **Social**

We will gain customers by first testing our product with professors at BYU, then using word of mouth and contacting other schools once we have a reliable product.