

# Team Hex Solution Presentation

Leah Ronski, Meghan Oros, Madison Mack, Maggie Hanon, Trinity  
Nihiser, Kavni Shah

# Problem statement

Teachers have trouble using Chalkboard, and the tablets because of **a lack of wifi and power.**

**Lack of connection** to other instructors and **feedback from students.**

Difficulty creating and maintaining **lesson plans** in a **timely manner.**



# Design Question

How might we create an **AI-powered** responsive website that works with interactive **hardware** to allow for **time efficient** lesson planning?



# Objectives & Goals

## Objectives

Our objectives are to make an interactive app and website to help teachers create lesson plans, save data about their class and understand what their students need help with in a learning environment.

## Artificial Intelligence

The use of offline AI to create the lesson plans.

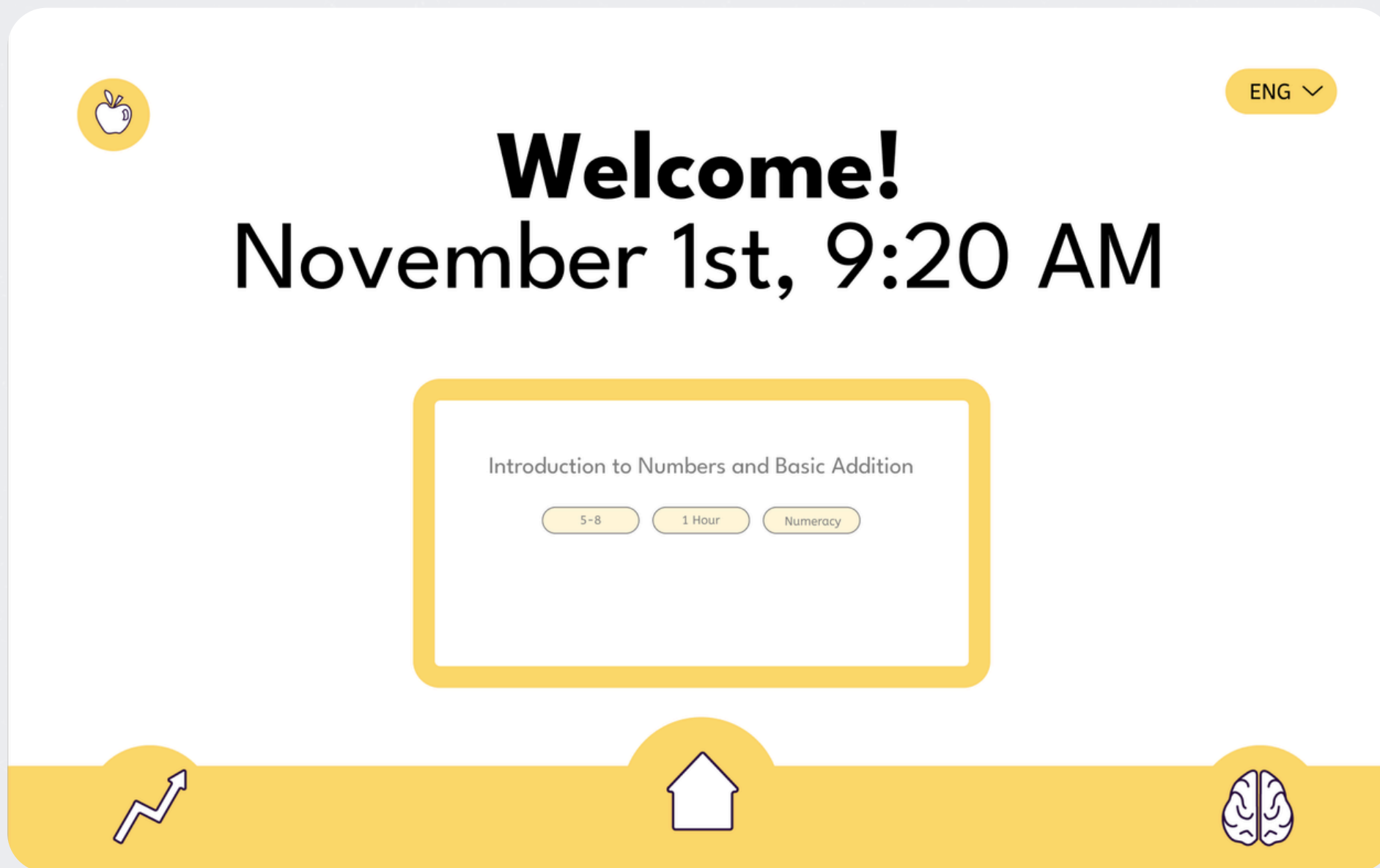
## Data

The ability to save data from past classes and student performance.

## Performance

Using the data from student performance, which is used to improve the lesson plans and help

# Interactive Website



## The uses

This website can be used to generate lesson plans using offline AI, save data from the lesson plans, collect the data from the students and use it to help make better lesson plans

## How and who it helps

This website is used by teachers and helps keep teachers organized as it helps them spend less time on extensive lesson plans.

# Aspects of the website & its design



Data archive



Edit



AI page



Teacher interface



Download



We used a yellow based color scheme to emphasize a sense of joy and calm

**We used League Spartan for our bolded text to help make it stand out.**

We used Glacial Indifference for our standard text because it was easily legible.

# Artificial Intelligence

---

## Working with the Coders

After talking with the coders we found a balance between using online and offline features.

Training the model while on the internet using the national curriculum and other large files, which would be implausible to train offline.

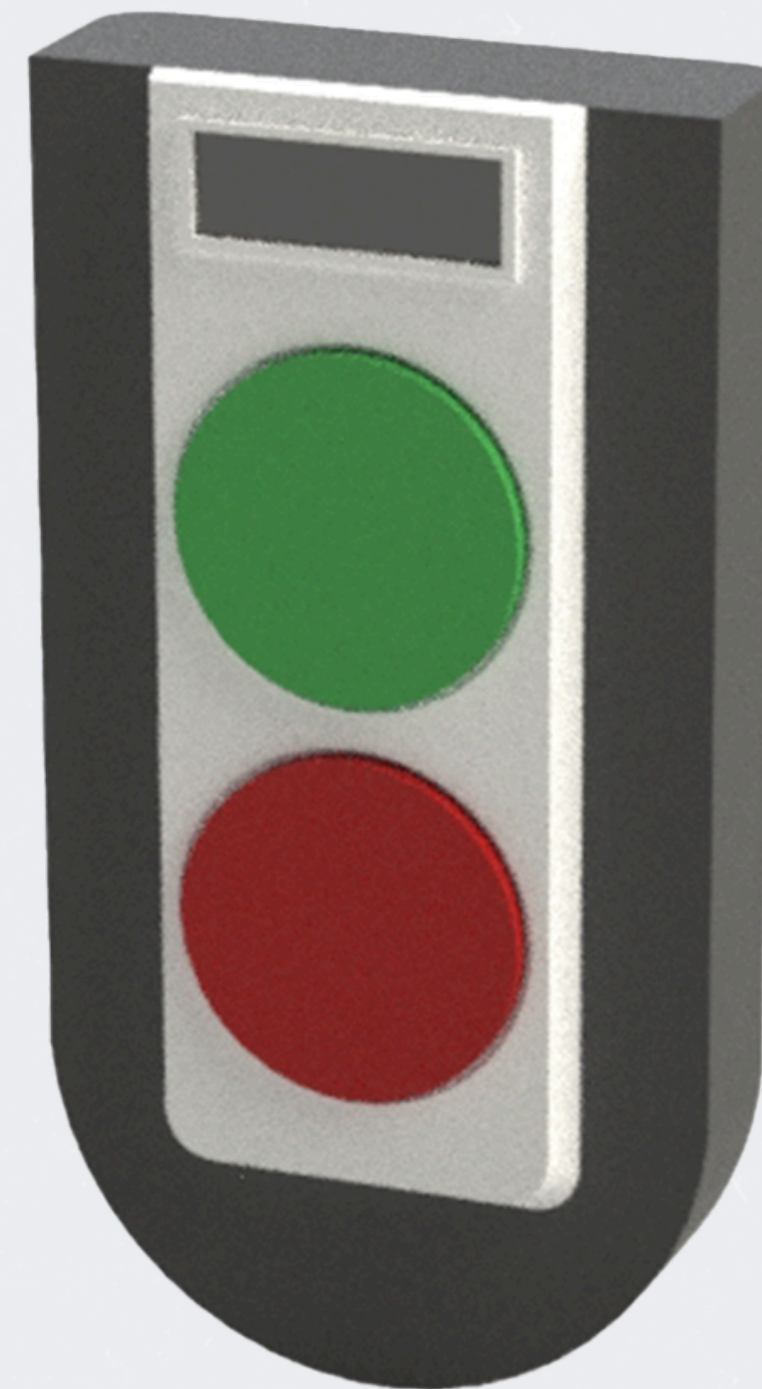
While offline, keeping functionality based on online training. Helping with the issue of lower connectivity.

AI includes:

- old lesson plans
- new lesson plans
- The Hex Clicker data

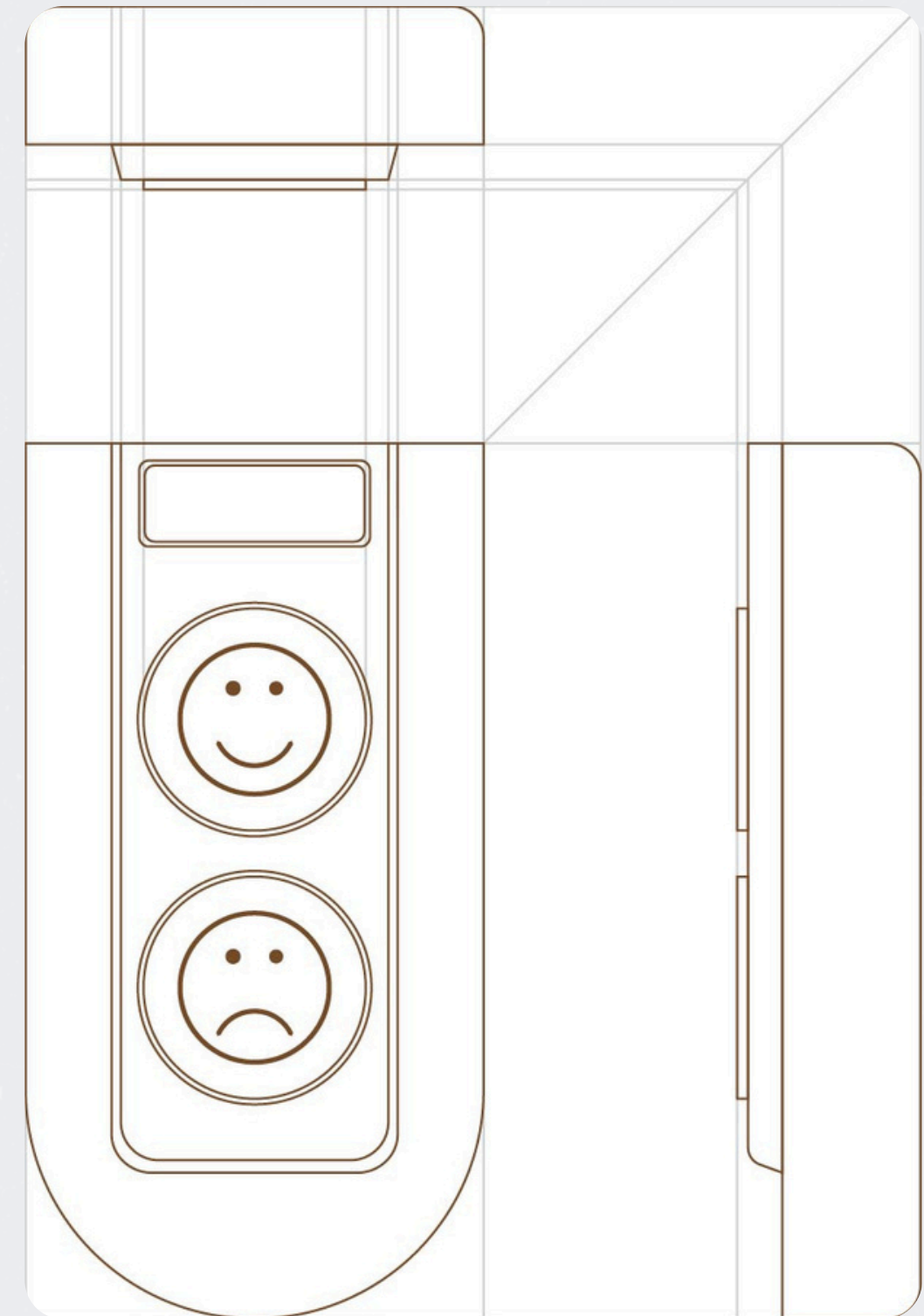
# The Hex Clicker prototype

The Hex Clicker is used to  
record data and responses  
from the students.



# About the Hex Clicker

- The top of the device has a solar panel to charge the battery.
- One red and one green button
- Smiling and frowning faces in addition to color
- Bluetooth compatible
- Used to record data from the students
- The teacher asks the students if they can understand the topic with two options, yes and no
- Students select their responses
- It remotely connects to the website and allows the teachers to see what the students selected, and what they are struggling with in each subject



# Next Steps

In the future, our team plans to create full and finished designs with the help of the coding team. We wish to create a future where education is available and easy for everyone, no matter their background and their home life.

We want to be able to create the change we want to see with the website and the Hex Clicker.

**Prototyping the Hex Clicker**

**Working with the Hex Coders**

**Test Running the Website**



# Thank You

