AUGMENTED REALITY... IS IT REAL OR FAKE?

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WHAT IS TAP

TAP is a service-based learning course in which students create an outreach project to encourage others to pursue a technology and IT related career.

OUR PROJECT GOALS

We are developing an Augmented Reality tutorial to introduce the audience to AR. Our goal is to show the importance of AR and how it is used in today's world. AR enhances real world surroundings by layering digital content such as video, animations, sounds, and graphics on top of the real world. The most commonly used devices for AR applications today are smartphones and tablets.
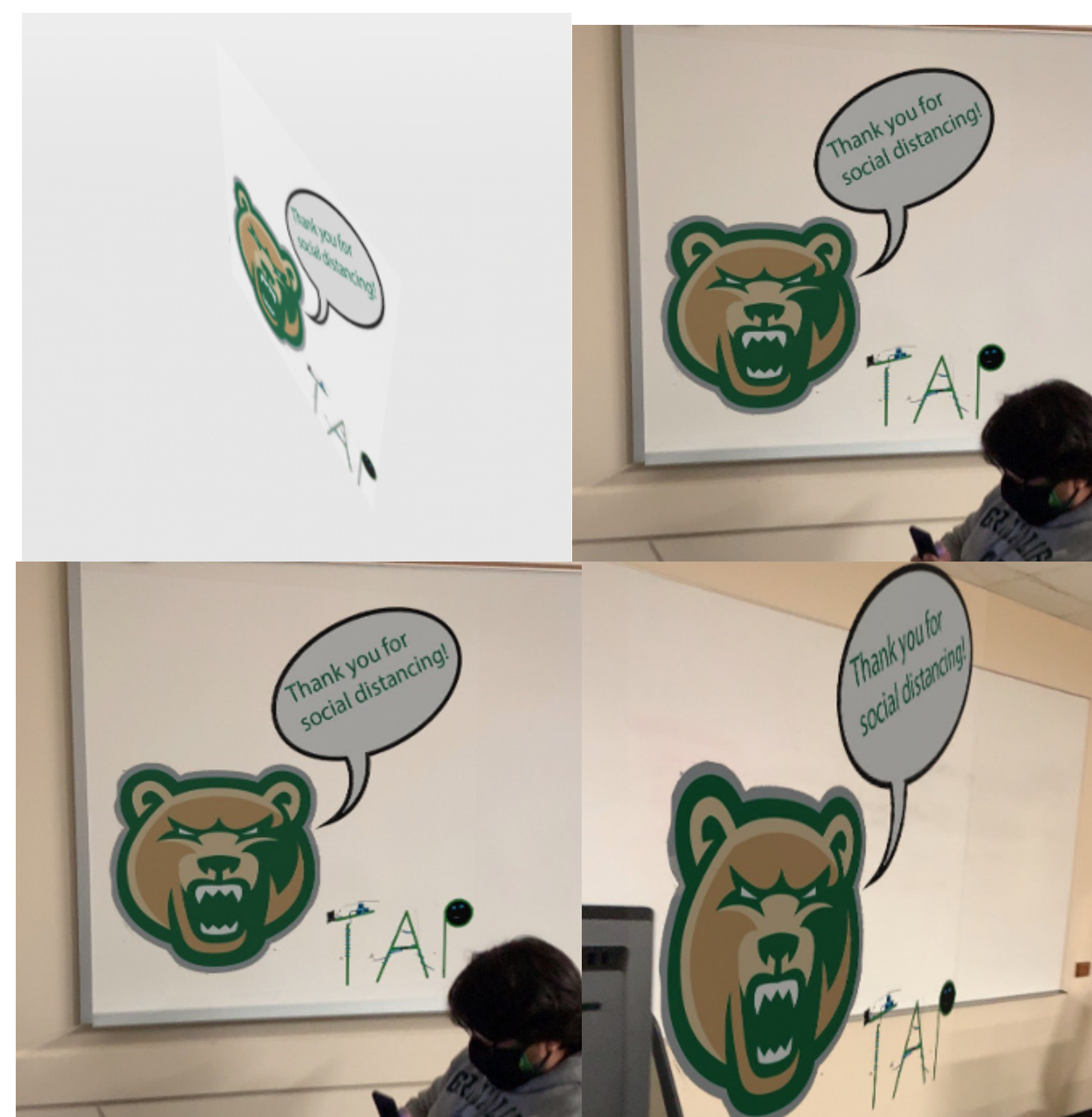
PROJECT DESCRIPTION

We used the echoAR technology to design our project tutorial. We created several 3D models for our tutorial, such as our 3D grizzly model. We used these models to show our participants how a marker is used to trigger a virtual 3D model to appear overlayed on top of the real world. We then showed them how to create a simple AR application.
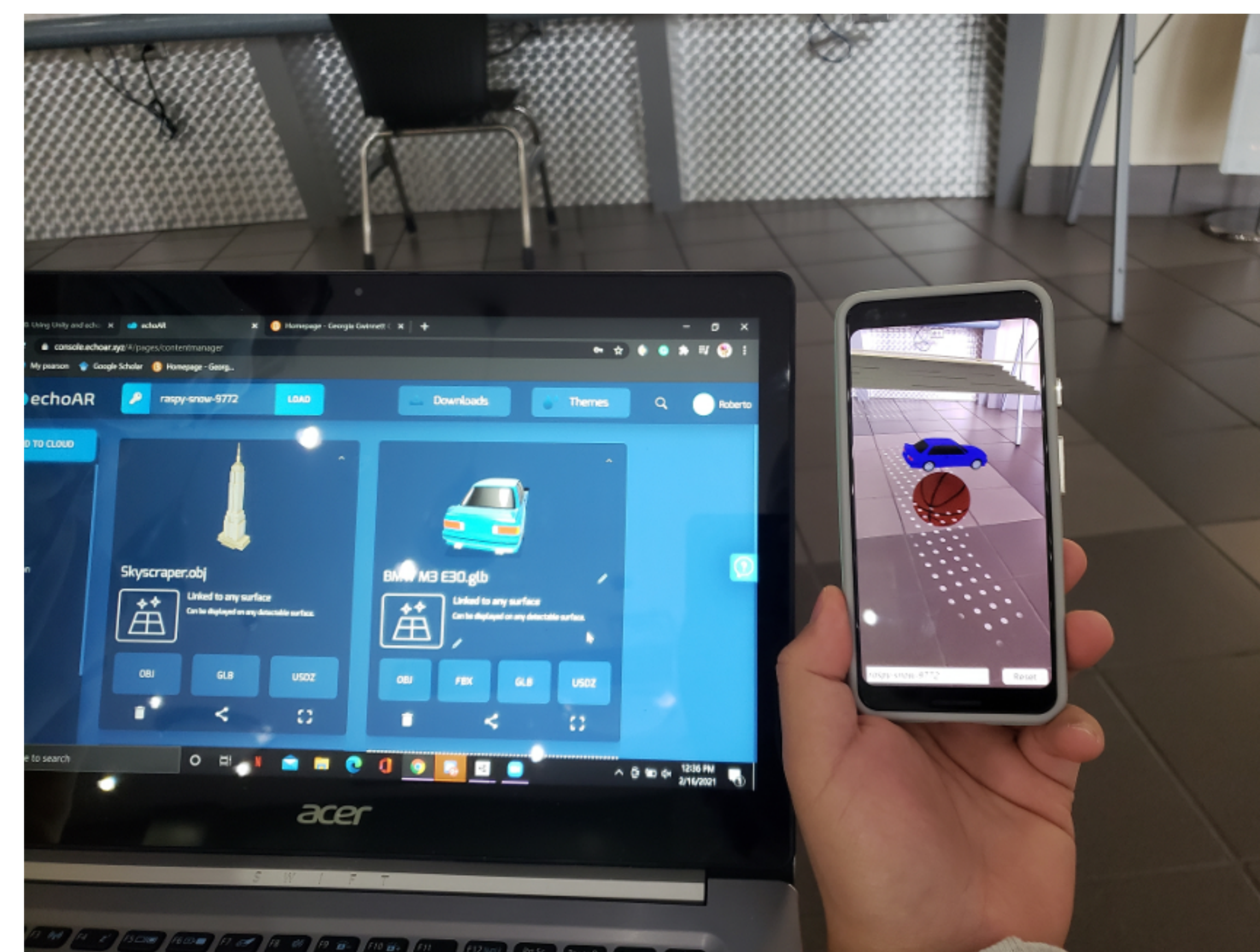
TECHNOLOGIES

Here we have the model we will be using in our workshop, a safe distancing thank-you card of General. The model can be freely resized and rotated and can be placed anywhere around the room.

Here is the user interface for EchoAR. These were some examples to show how the interface was used.

Using Echo AR you can place an "Anchor" onto any flat surface (including a seat in the car) which will trigger the models to show where you want it to view it in any direction.

One of our final results is the dragon model that was free in ARmode which allows you to freely place the model anywhere around the room that has a flat surface. We used a QR code to launch a model on our phones.
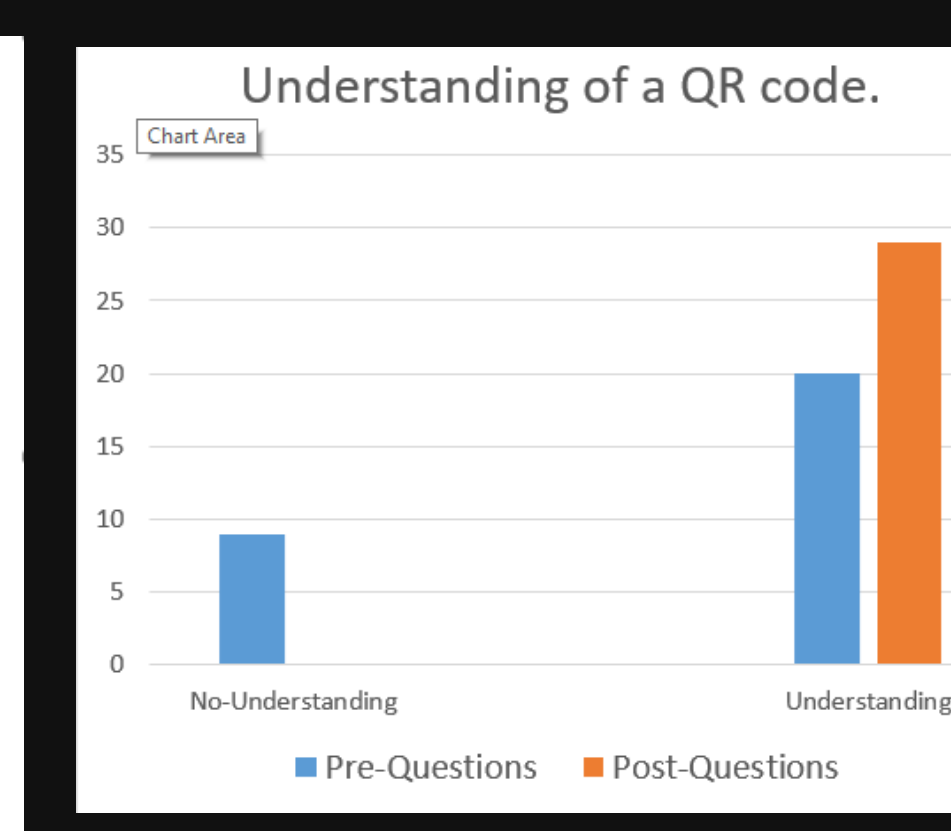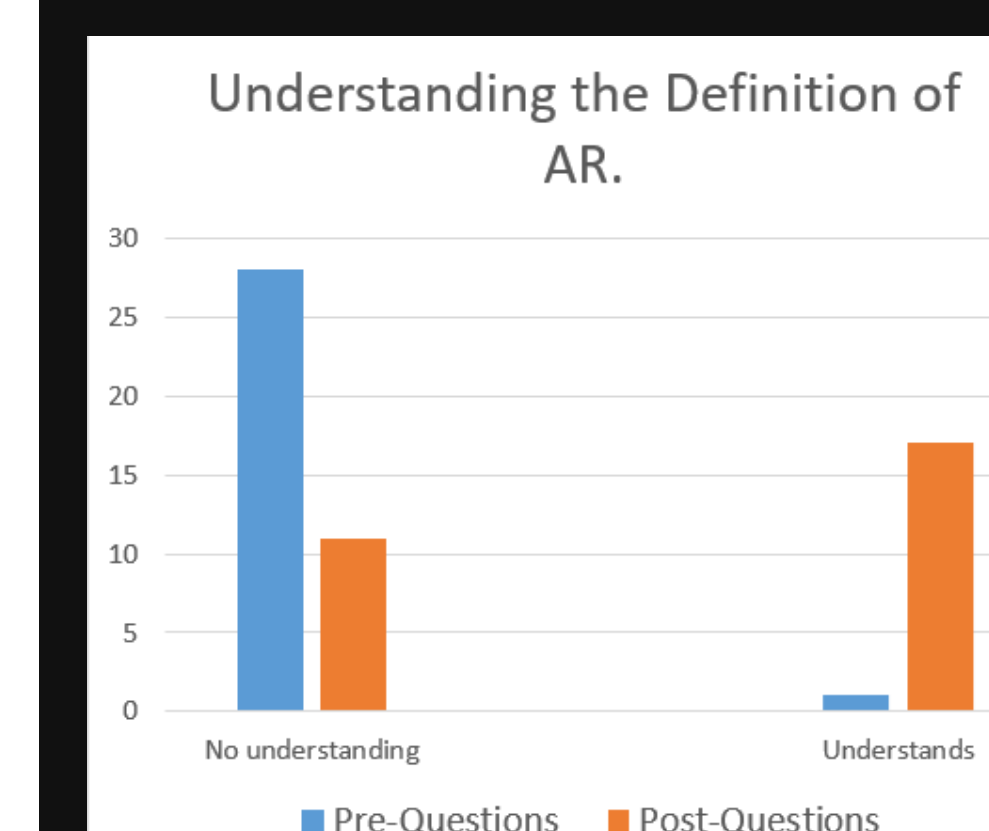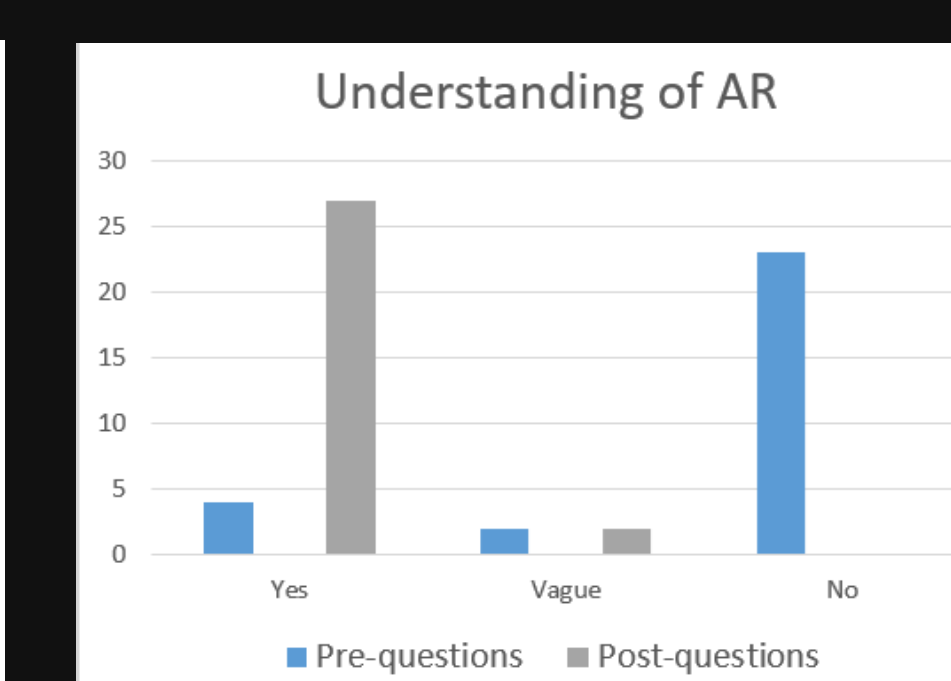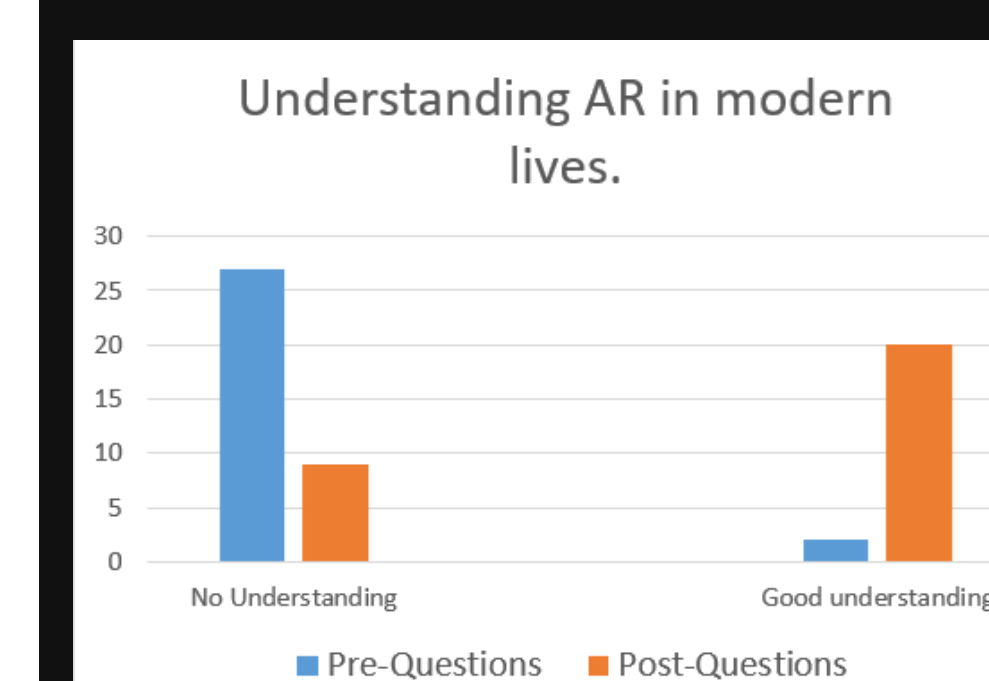
LINKS

EchoAR: https://www.echoar.xyz/

An Example: https://go.echoar.xyz/e6hx

WORKSHOPS

We will present our workshops in 3 educational classrooms. We will also present our work in the STARS and CREATE research symposiums. TAP Expo which is a demo/recruiting event for the TAP program.

As we can see from the data we found out that most of the students did not know enough about AR that afterwards they realized that AR is used alot in our modern-world and what we can do for the future.