



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

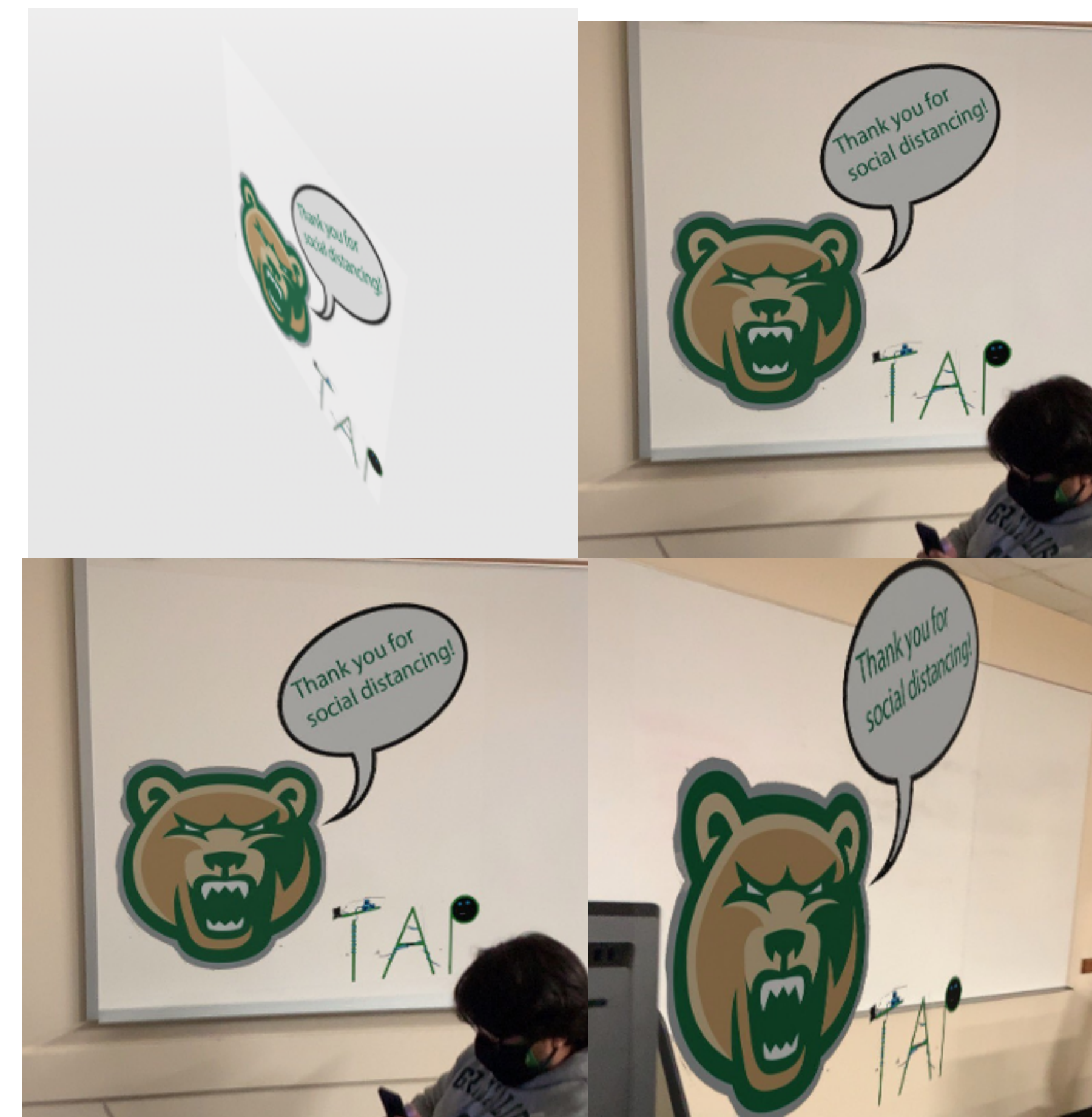
We used the echoAR technology to design our project tutorial. We created several 3D models for our tutorial, such as our 3D grizzly model. We used these models to show our participants how a marker is used to trigger a virtual 3D model to appear overlaid on top of the real world. We then showed them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

AUGMENTED REALITY... IS IT REAL OR FAKE?

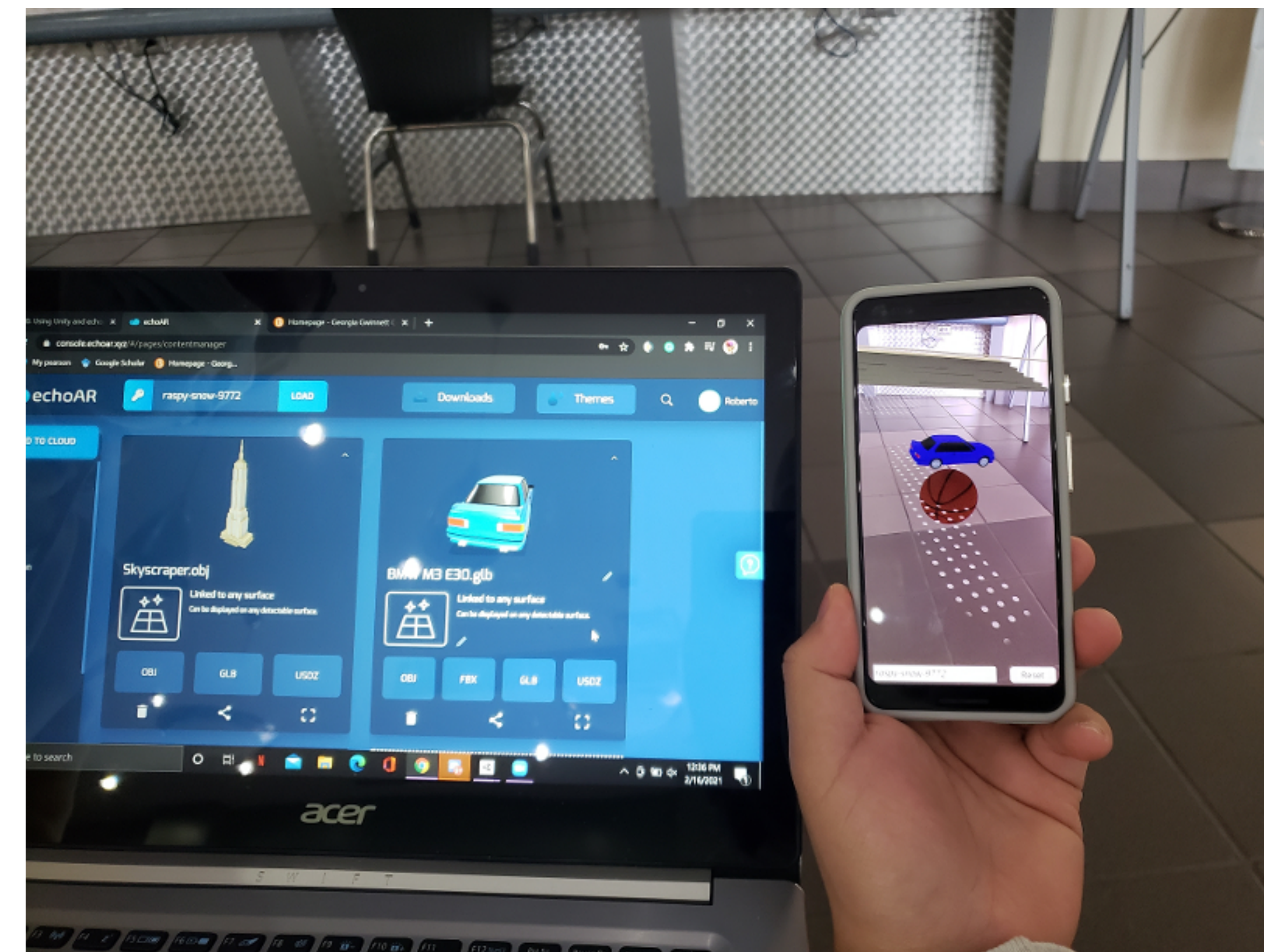
*Roberto Salas, Jadon Richardson,
Josue Pastore-Manzano, Yvan Pohla-Pohla
Anca Doloc-Mihu, Cindy Robertson*

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.

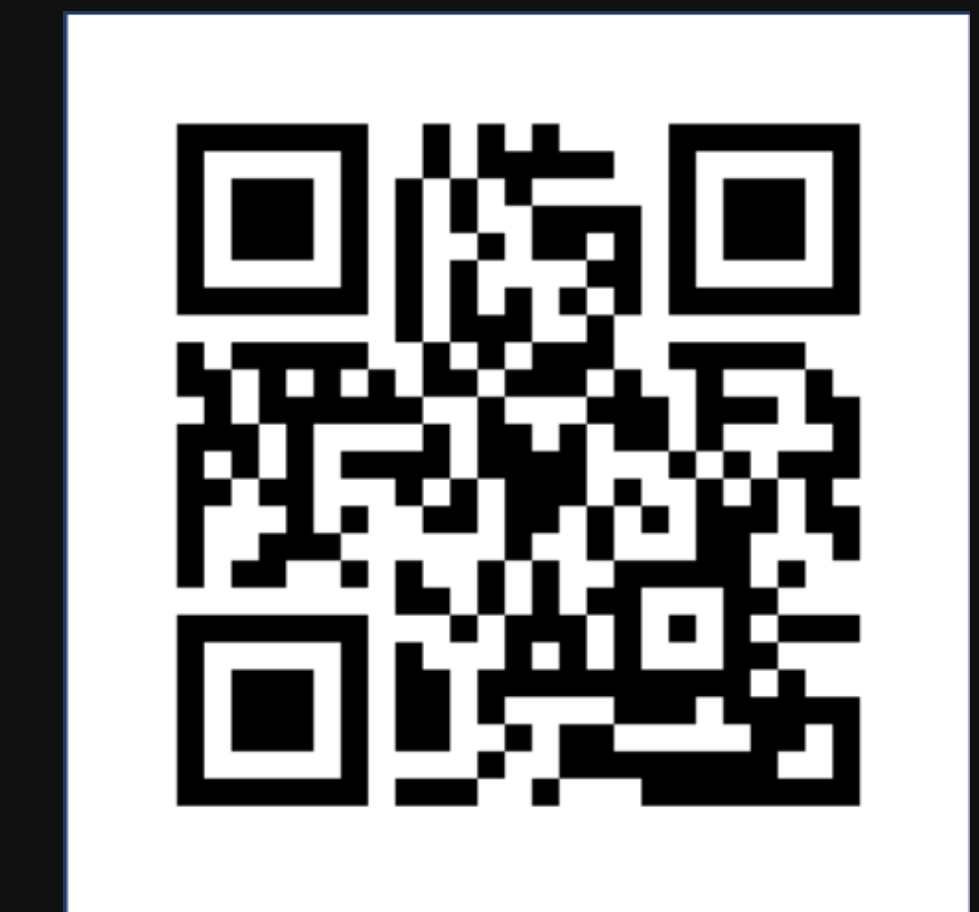


One of our final results is the dragon model that was free in ARmode which allows you to freely place the model anywhere around the room that has a flat surface. We used a QR code to launch a model on our phones.

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.

CONCLUSION

During our workshop, participants complete surveys to give us feedback on the workshops. We will analyze the data of those surveys and will present our findings at the CREATE symposium.

THANK YOU

We would like to thank GGC and our mentors for this opportunity to engage in this program and allowing us to improve our ideas. This was a great experience. Thank you for everything!!!