

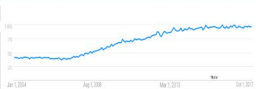
Learn Live

A Video Chat Learning App

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The Problem



The world's preferred method of learning at home has been through educational youtube videos. While this has proved effective, there are a few issues with this method, such as

- It's only a 1 way conversation
- Not in real time
- The students can't communicate effectively

Objective

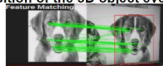
To make an app that allowed students and teachers to connect from home and focused on clear communication.

Solution

A simple, mobile video chat app that utilizes basic drawing functions and augmented reality 3D objects. With the addition of these objects, it is easier for users to highlight materials in the real world through the camera view, write messages to each other, and the video chat allows both users to talk to each other in real time.

Methods

Image Tracking - using OpenCV, we can track images that we are highlighted with 3D objects, and fix the position of the 3D object every frame.



Technologies



ARCore

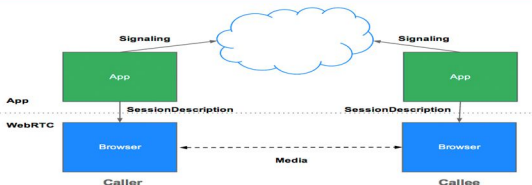


WebRTC



OpenCV

System Architecture



Future Work

- Make the AR more accurate by fleshing out the algorithm
- Adding more 3D objects to add to the live video
- Recruiting Teachers for daily use so that connections are easier to find