Minimum viable product

## Must have:

* Controller on the headset must have following requirements:
  + WiFi connectivity
  + At least 3 spare IO pins for extra features
  + Small enough to comfortable hold on the head (<50g)
  + Low power
  + Able to run off battery
  + Compatible with camera module
  + Enough memory to hold program code
* Camera to take photo if IC in front of the user
* Implement a trigger that will instruct the camera to take a photo. Preferably a button
* AR headset with a camera mounted on it
* Connect wirelessly to a local network to send and fetch IC/image data
* Have a local server which will connect to the headset controller
  + Local server will offer extra compute to recognise the text in the image and only send necessary data.
* Send the image captured by the headset to the local server and pass it through an optical character recognition program
* Display the relevant information captured from the image, either on a local computer or the headset.

## Should have:

* Heads up display
  + Display the pinout of the IC on the heads up display
  + Have the heads up display on at least one eye
  + Have a high enough pixel density to make the GUI legible
* Have a local IC database of the IC’s in the lab containing essential information like pinout.
* Stream the camera view live to a web service
* Be able to read multiple IC’s in the same image
* Allow user to switch between detected IC data

## Could have:

* Highlight the IC the AR headset is currently reading and displaying data for
  + Calibrate the POV of the camera to ensure the highlighted area is in line with the users eyes and IC
* Fetch online data about the IC if it is not present in the local IC database

## Don’t have: