Specifications

# Augmented Reality Glasses

The glasses must meet the following specifications:

* Be lightweight (<250 grams)
* Be durable
* Display video in one eye
* Allow user to simultaneously see the main video and the accessibility video with minimal discomfort
  + 3-5 people will wear the glasses for 30 minutes and then take a survey to gauge their comfort/discomfort

# Video Playing Application

The application developed for playing and modifying the video must meet the following specifications:

* Start and run the main video and the accessibility video and have them synced
* Real time user controls, that allow modification of the following:
  + Brightness
  + Position
  + Size
* Log the changes user make in video settings
  + Logging stops when video stops
  + Easy access to log files
  + Demo of format/opening in Excel

# Test Cases

Along with the above technologies, a test case will be created that must meet the following specifications:

* Cases for laboratory settings. To be tested with Jeannette Lawler and Mike Jones
* Test each user control
  + Test with Jeannette Lawler and Mike Jones
  + Test with 3-5 other users

# Video Processing Server

The server used for processing and displaying the video must meet the following specifications:

* Handle and support Microsoft Visual Studios
* Play MFPlayer
* Be capable of playing the main video and the accessibility video in sync

# Documentation

Documentation will include the following:

* Commented source code
* Design decisions
* User instructions

# Prototype Testing

For the project’s scope, only customer testing will be performed. The team will perform self-user tests on the system as well. An environment for user testing will be setup, but this is not within our scope.

## 1st Test

* Naming the log file
* Choosing and starting the main video/accessibility video

## 2nd Test

* Main video and accessibility video play in sync or with a few seconds delay in the accessibility video

## 3rd Test

* Accessibility controls (brightness, size, position, contrast) all work and are able to be logged in a CSV file