

Release Plan - Social Distancing Detector

Team Name: Team Laser Sharks

Release: 1

Release Date: March 9th

Revision: 1

Revision Date: January 12th

High Level Goals:

1. Be able to decide, from a camera's video feed, whether the people in the video are social distancing.
2. Be able to determine distances within a video feed.

User stories for release: (with score)

Sprint 1:

1. **(2)** As a user, I want to be able to open this app on my webcam feed or video.
2. **(3)** As a user, I want to be able to detect humans from a webcam feed or video.
3. **(5)** As a user, I want to know how many people are in the video.

Sprint 2:

1. **(13)** As a user, I want to know how far away people are from the camera.

Sprint 3:

1. **(13)** As a user, I want to be able to track everyone in the video.
2. **(13)** As a user, I want to map where people are in a given room.

Sprint 4:

1. **(21)** As a user, I want to be able to detect if 2 or more humans are closer than 6ft from each other so that proper covid policy is followed.

Product backlog:

1. Face mask detection
2. Combo face mask and distance detection
3. Detection of COVID related symptoms (coughing, puking)
4. Be able to move the camera continuously while still performing all of the above
5. ~~Launch missiles and laser sharks at people disobeying covid rules~~

Project presentation:

```
map_floor()
```

```
while true: (loop below)
```

```
if number_of_people > 1:
```

```
    table = calculate_distance_between_all_people()
```

```
    for values in table:
```

```
        if value > 6 feet:
```

```
            Throw flag
```