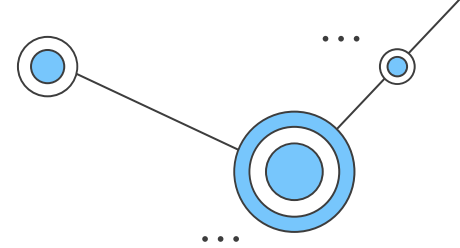


# Crime Miner Video

Iteration 3

# Team Members Information

## CS Seniors



**Jacob Bishop**



**Eric Perez**



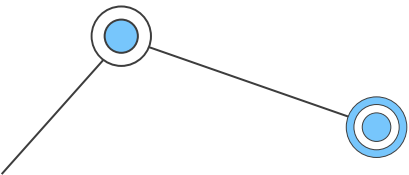
**Isaac  
McKinney**



**Merghani Hagelnour**



**Brendan May**



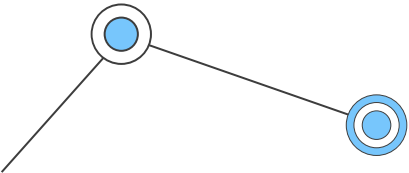
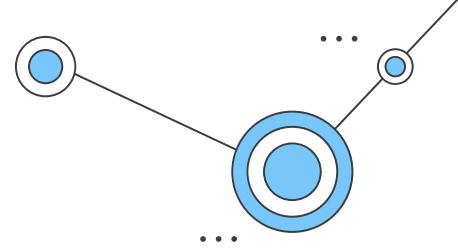
# Client Information



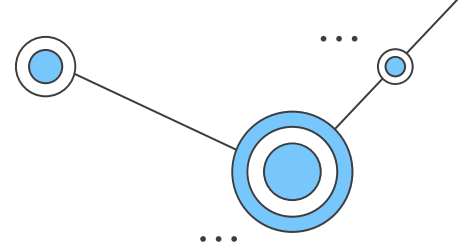
chuqlab

## Chuqlab

- Dedicated partners in stopping crime
- Prioritize markets and industries that are severely underserved by the technology community.
- Design solution to be nimble and adaptive
- Investigators no longer need to spend hundreds of hours sifting through all of the audio files manually.
- Cornelius CEO of Chuqlab has been main contact for Crime Miner

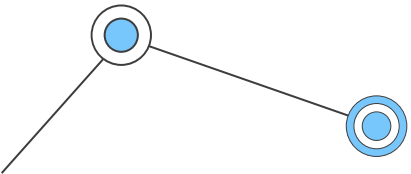


# Mentor Feedback

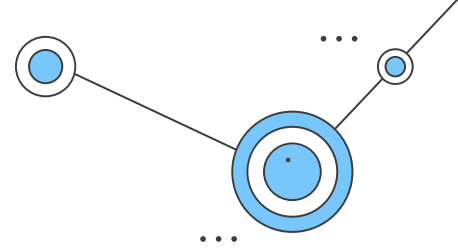


## Drew Feedback

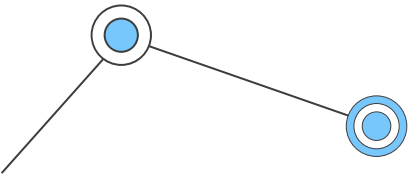
- When letting the CEO take over and use the WebApp keep notes everytime he can't do something or gets confused (can use it to improve UI)
- Impressed with the site
- with UI the sidebar was confusing, was not clear that the CM “button” makes it expand and collapse
- Frontend testing is annoying



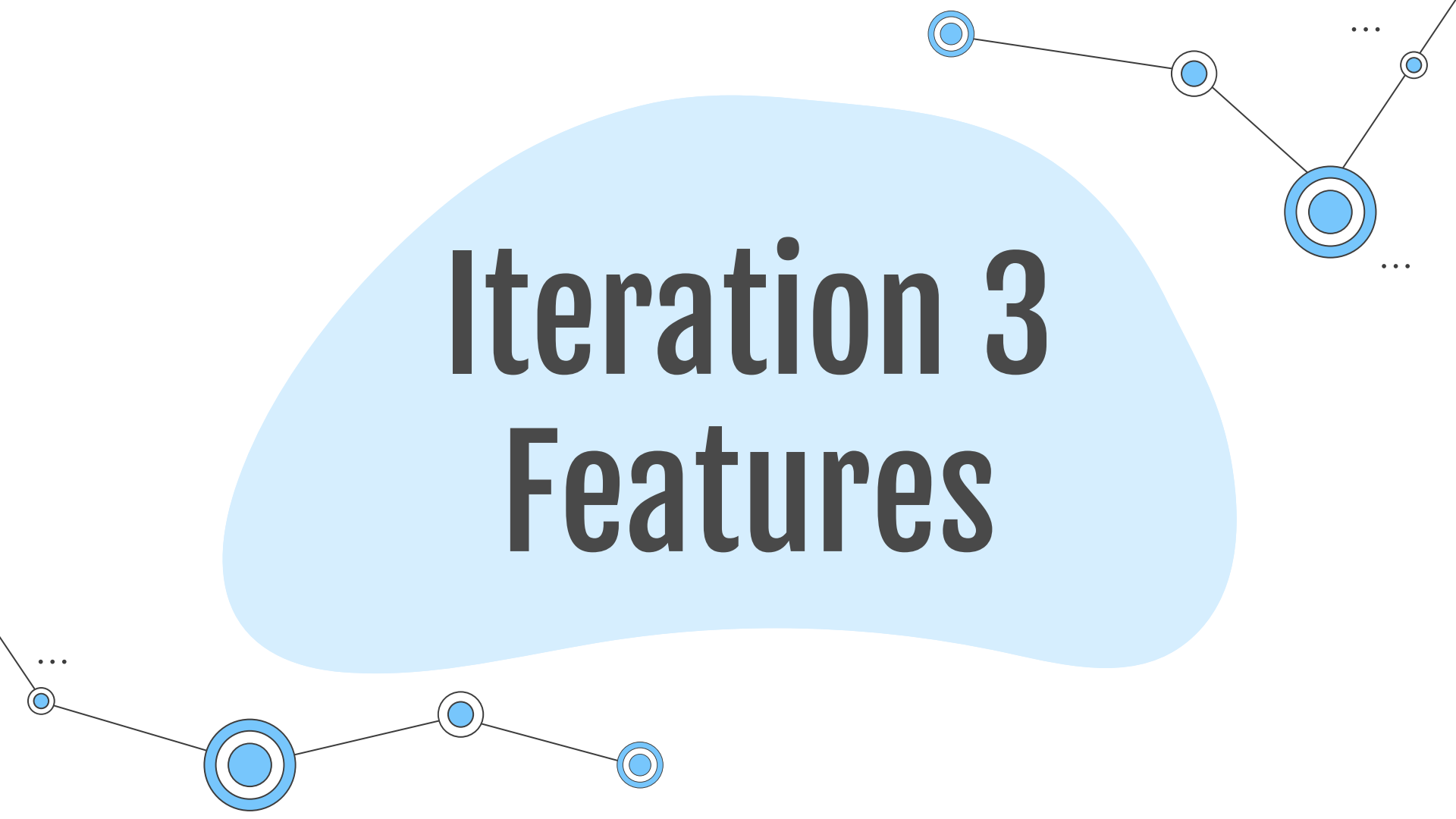
# Client feedback



- **Cornelius Feedback after Testing the Web App**
  - Overall likes the direction of the project
  - Improve the Label and Video Recognition
  - Create Users to avoid tech debt
  - Improve UX/UI & Get rid of bugs



# Iteration 3 Features



# Iteration 3 features



## Manage Files to View/Edit Case!

The user has enhanced control over their case, and can gather AWS information about what they're looking for

## Visual Aids

The user can visualize the AWS JSON output in a way that makes sense to them

## Angular Web Application Interface

Have a user journey for a police officer that goes in more depth of looking at the case

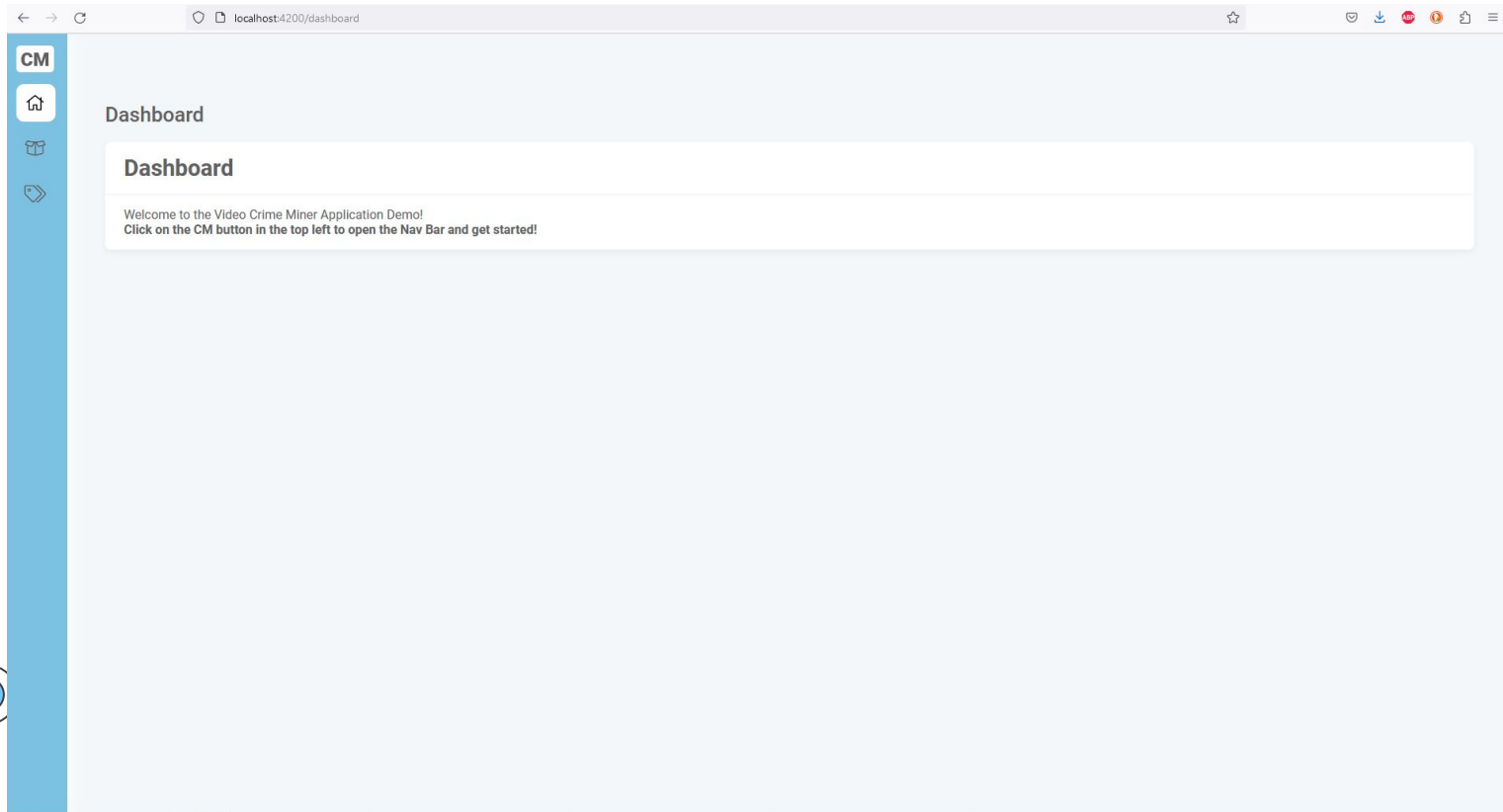
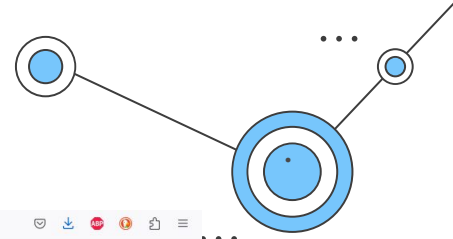
## More Full Stack Features

The user just has to click a few buttons, and the servers will process and serve relevant information

## Improve Object Detection

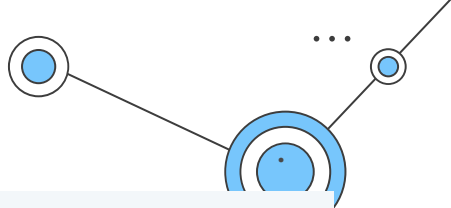
Either make reported labels from Rekognition searchable or pivot to Image analysis of video frames

# Angular Web app





# Manage Cases/Files



## New Case

### New Case Information

CASE NAME

CASE DESCRIPTION

SUBMIT NEW CASE

## Your Cases

### All Cases

Id	Name	Tags	Description
1	Gas Station Robbery	Gun,Person,Truck	The gas station on University Ave was robbed
2	Fish Poacher	Fish	Somebody is killing endangered fish
3	Hit and Run on the street	Person,Sunglasses	Someone hit and run in 2 seconds
4	TEST CASE		A Test Case.

## DETAILED CASE INFORMATION

### Case Info

Case ID: 4  
Case Name: TEST CASE  
Case Description: A Test Case.  
Case Tags:  
Case Notes:

### Related Files

File ID	File Name	Notes	New Label Detection
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### Upload File

No file selected.

UPLOAD

### Info

File Info  
File ID: attempted\_robbery.mp4  
File Name: attempted\_robbery.mp4

Case Info  
Case Name: TEST CASE  
Case Description: A Test Case.  
Case Tags:  
Case Notes:

### Step 1: Add Tags

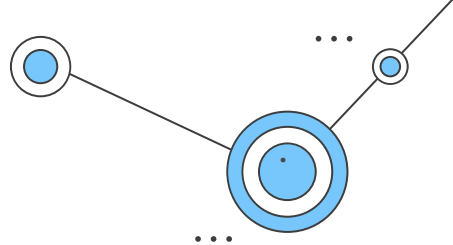
ADD

### Step 2: Verify and Submit

Selected Labels:  
Person

SUBMIT

# Improved Object Detection



## Info

### File Info

File ID: attempted\_robbery.mp4

File Name: attempted\_robbery.mp4

### Case Info

Case Name: TEST CASE

Case Description: A Test Case.

Case Tags:

Case Notes:

## Step 1: Add Tags

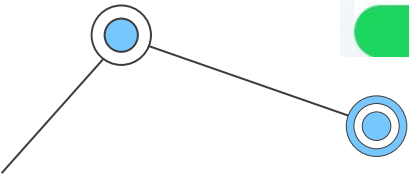
ADD

## Step 2: Verify and Submit

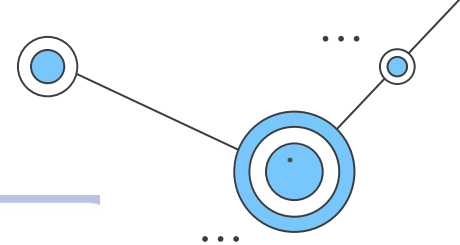
### Selected Labels:

Person

SUBMIT



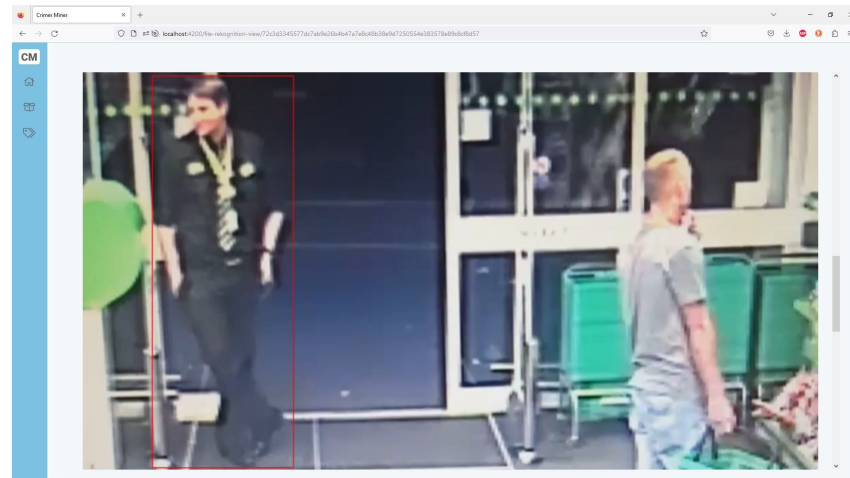
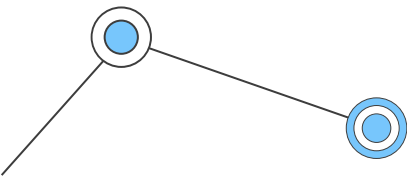
# Visual Aids



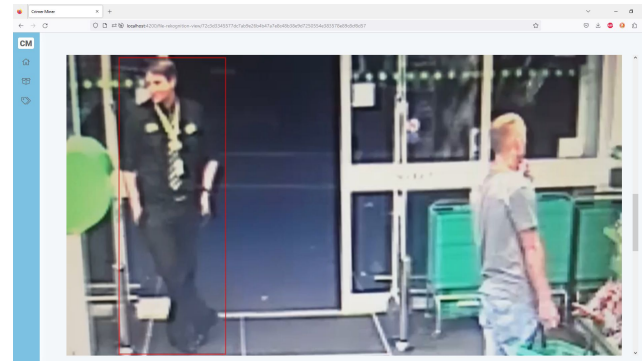
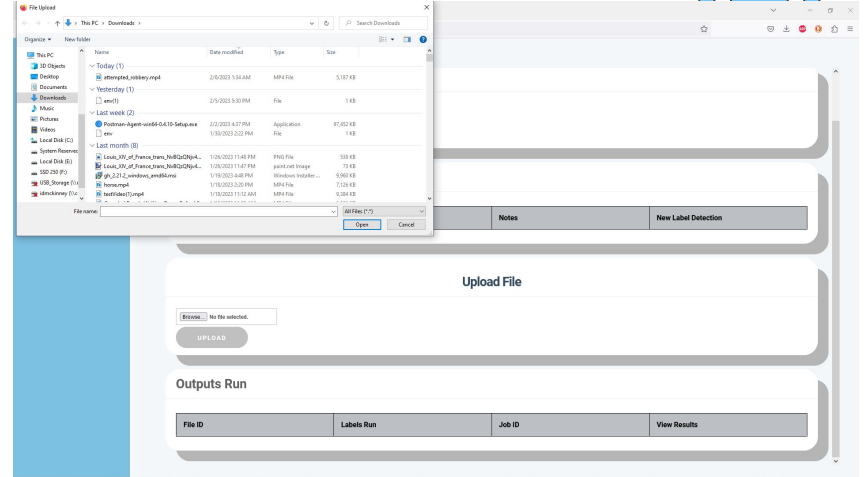
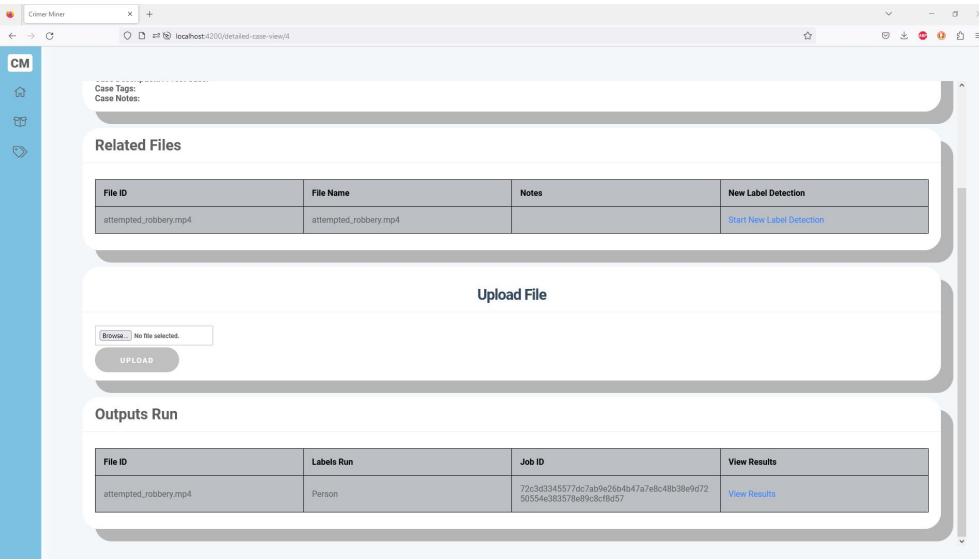
## LABEL DETECTION RESULTS

Found NaN Labels Over 17 Timestamps

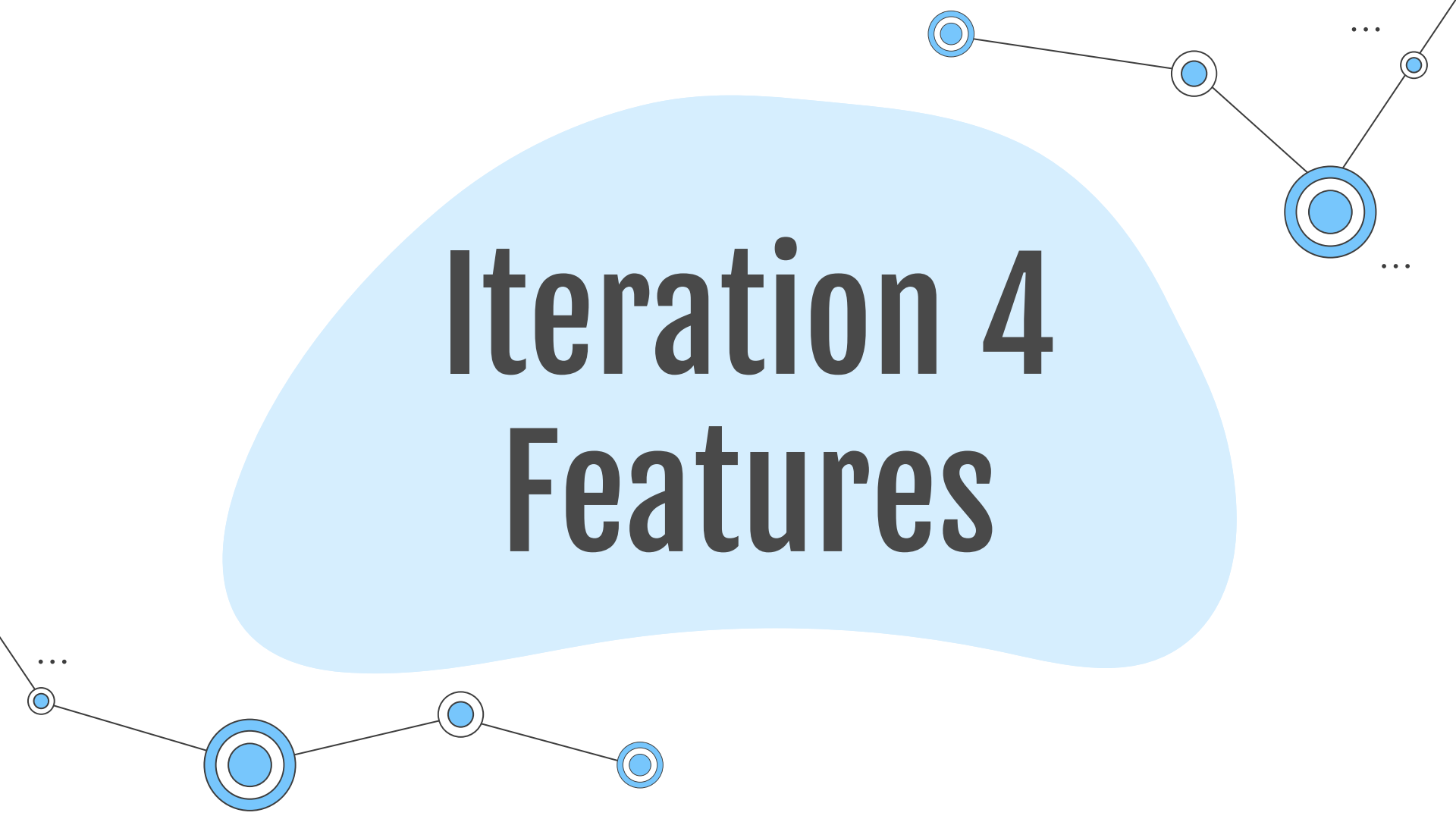
Label Name	Other Aliases	Label Parents	Label Categories	Possible Number of Occurrences	Confidence Level	Timestamp in Milliseconds
Person	Human	Human	Person Description		97.79008483886719	0
Person	Human	Human	Person Description		97.44071197509766	500
Person	Human	Human	Person Description		96.40653991699219	1000



# Full Stack Features



# Iteration 4 Features



# Iteration 4 features



## Improve the Web app

Having a UI that has that follow a theme and looks appealing to the eye. User experience will be a top priority.

## Angular Web Application Interface

**Add Level of Complexity  
for Users and Polish  
Current Features**

## Clean Repository

Provide our client with a stable, valuable Proof-of-Concept repository that's ready for their developers to take to market.

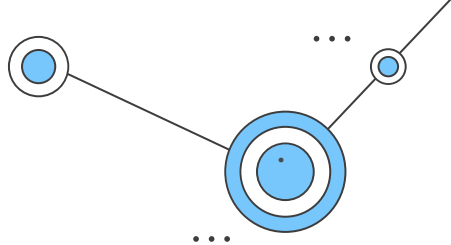
## Debugging

Improve and standardize error handling/reporting for environment

## User Portals

Adapt DB to be organized by users. Each user can have their own experience and the app protects their data

# Benefit to the Client



## Before our Project

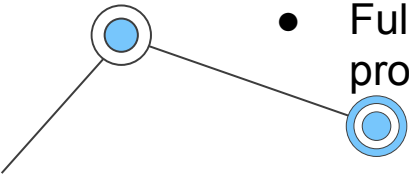
- No video processing existed, only audio processing

## Before 3rd Iteration

- No User Interface that was functional
- No 'User Story' implementation
- Could get label detection results, but no way to visualize them
- Could not upload videos and see what was contained in them

## After 3rd Iteration

- Functional User Interface that allows user to experience all features of project
- Highly useful visualization of data provided by AWS Video Rekognition
- Full-Stack features implemented and useful for solving user's problem in its current state





# Demonstration

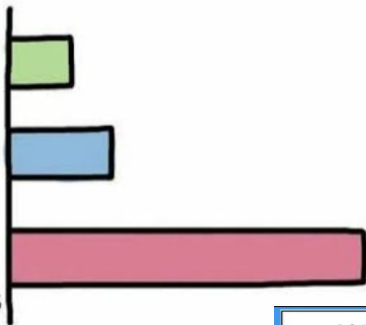


# WHAT GIVES PEOPLE FEELINGS OF POWER

MONEY

STATUS

USING THE  
TERMINAL IN  
FRONT OF  
NON-PROGRAMMERS



Frontend



Backend



adding features to  
the backend

trying to align a button  
on the front end

When you write 100 lines  
of code and it compiles on  
your first attempt

