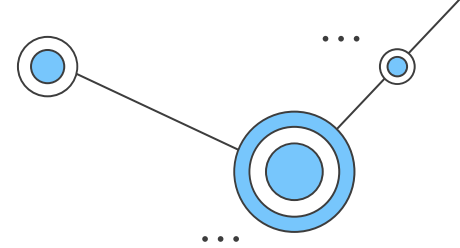# Crime Miner Video

Iteration 2

Team Members Information
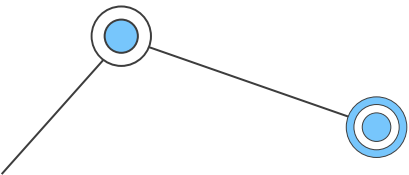## CS Seniors

Jacob Bishop

Eric Perez

Isaac McKinney

Merghani Hagelnour

Brendan May

Client information

**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.
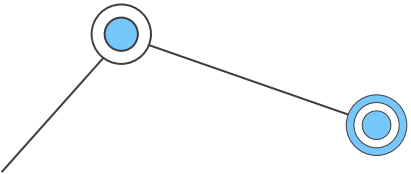- Cornelius CEO of Chuqlab has been main contact for Crime Miner
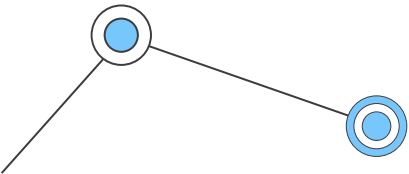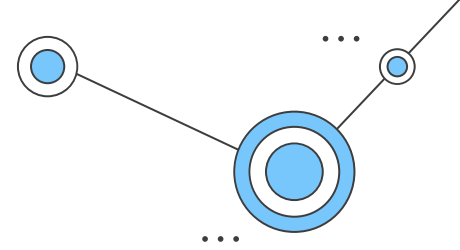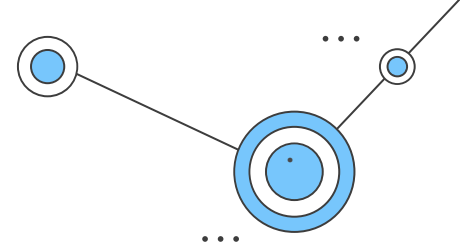
Mentor feedback
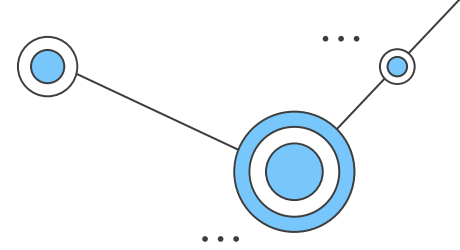
Mentor Feedback
- Security is an important issue
  - Have it open and just protected with a password is a huge risk
  - have it behind api gateways or dynamic routing to make website is only public access
- Hard coding the bucket name may be an issue
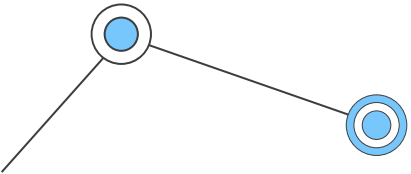- Use cloudfront, cloud 53,

Client feedback

Uploading files feedback
- Worried about the problems that scanning frame by frame would cause
- Overall questions with what we plan to do with and question those plans
- Looks good, lots of progress from last Iteration
- User friendly, focus on the connection

Iteration 2 Features

Iteration 2 features

Manage files to "solve the case!"

The user can create cases, upload related files, and control their experience with the case.

The Workspace isn't Going Anywhere

The user's files are saved locally in a PostgreSQL database so they can continue where they left off.

Angular Web Application Interface

Have a user journey for a police officer.

Utilize Machine Learning to Get Needed Information

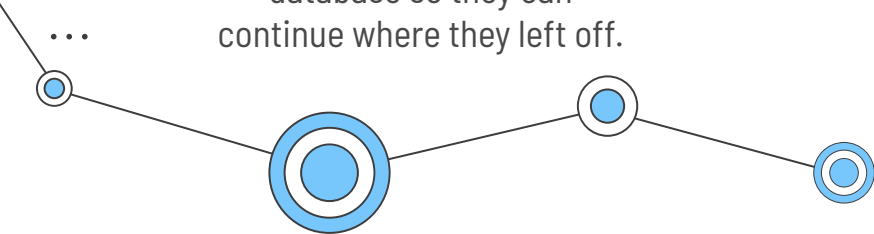The user can process videos to look for whatever is relevant to their case.

Do Multiple Tasks Simultaneously and Faster

The user can do some work on a case, have video processing run in the background, and go do something else.

Manage Files

Create Cases

NEW CASE   UPLOAD FILES

New Case

Basic Case Information

NAME

DESCRIPTION

Enter a description about the case here

TAGS

Submit
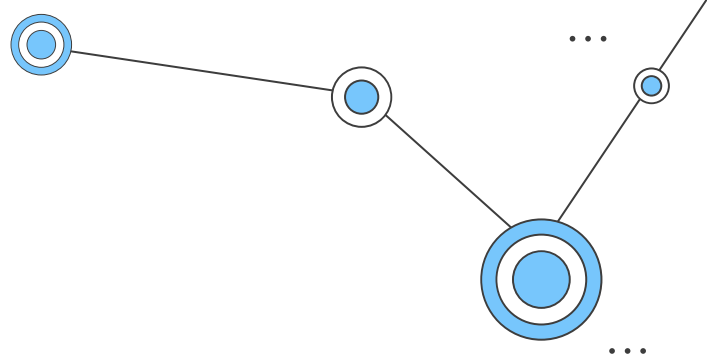
Upload Files*

NEW CASE   UPLOAD FILES

Upload File

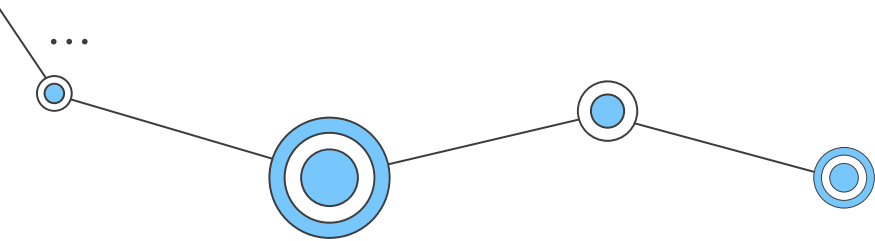Choose File   No file chosen

Upload

List of Files

Data persistence

Saving User Data With Our PostgreSQL Database

A Remote PostgreSQL Database to contain all user case data, allowing users to save any information pertaining to their case.

Speed up Rekognition jobs

```javascript
async function getLabelDetectionChunk(id: string, nextToken:string|undefined=undefined, clientToUse:RekognitionClient | any=client) {
  try {
    const parameters = {
        JobId: id,
        MaxResults: 20, // number of objects labeled before recieving results
        NextToken: nextToken // token to recieve next batch

    }
    var command = new GetLabelDetectionCommand(parameters)
    var finished = false
    var result
    while(!finished){
        result = await clientToUse.send(command)
        if (result.JobStatus == "SUCCEEDED") {

            finished = true;
            return result
        }


    }
    return result || {error: "Could not get Label Detection Results"}
  } catch (e) {
console.log('error', e)
  }
}
```

User Friendly(er) interface

Iteration 2 Architecture
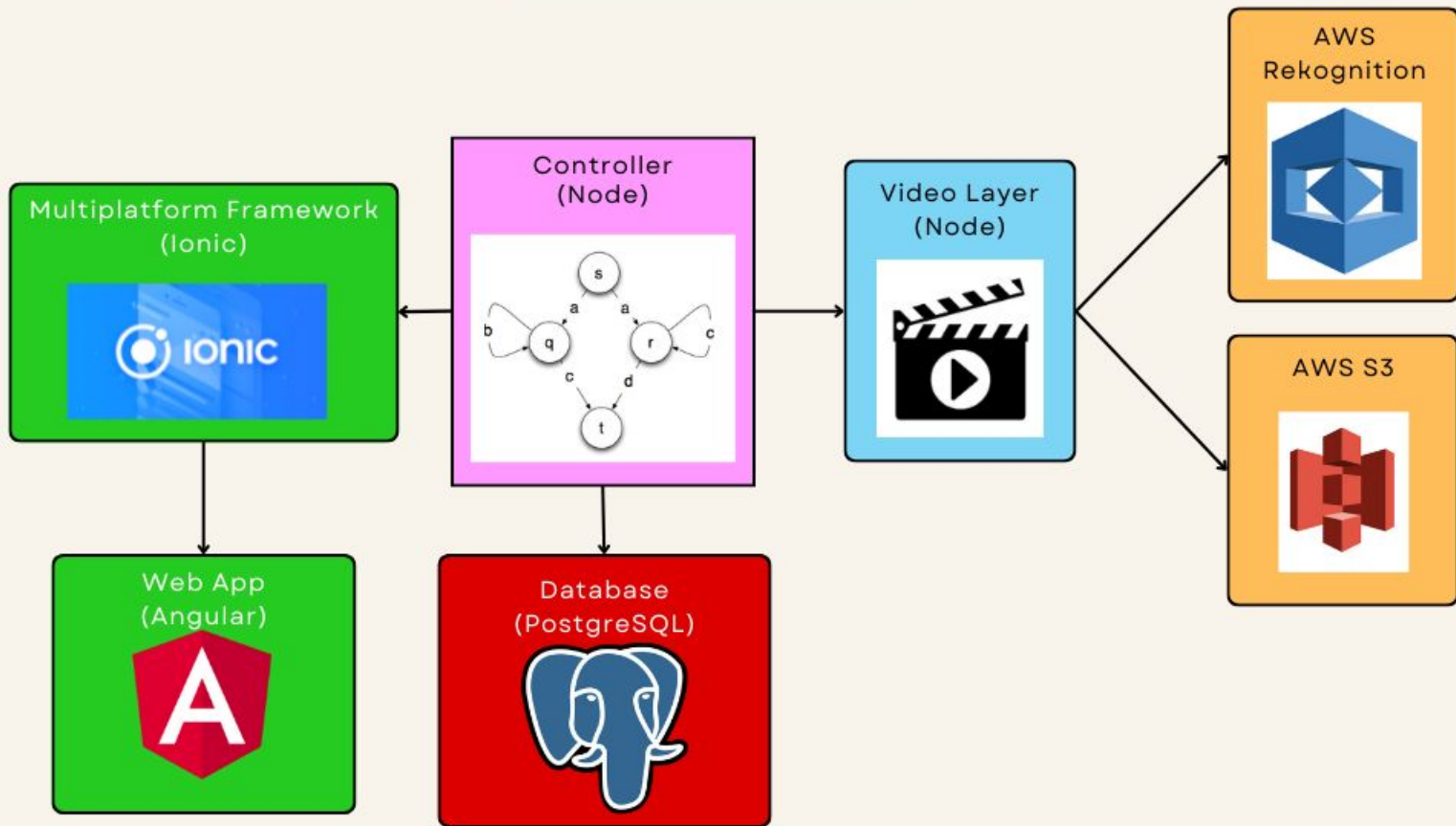
Iteration 3 features

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

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

Visual Aids

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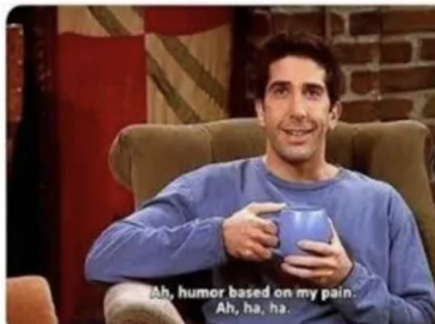
Improve Object Detection

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

Other people's github pages

Whatever the hell I'm doing

Programmers looking at programming memes

Ah, humor based on my pain. Ah, ha, ha.

Doctors: Googling stuff online does not make you a doctor.
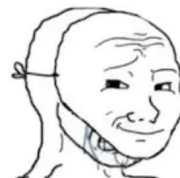
Programmers:

NOT SURE IF I AM A GOOD PROGRAMMING

OR GOOD AT GOOGLING

DESIGNERS

Look, we have similar ideas.

No! You stole my idea.

PROGRAMMERS

Man, I stole your code.

It's not my code.

Omonbude Emmanuel
@BUDESCODE

To replace programmers with Robots, clients will have to accurately describe what they want.
We're safe.

7:25 PM · 20 Jul 20 · Twitter for Android

lets see who made this idiotic program 1 year ago

Demonstration