TattScan

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*Abstract*—– a 150-300-word executive summary of the project and the main results

# Introduction

## Background

The inspiration for this project originated from the creation of a vegan health and fitness app. This project's concept was to take a snapshot or image of the eyes and provide a result depending on the sclera's whiteness or yellowness. Against support of the original concept, this application was expanded into an Android app that scans for diabetic retinopathy in the eye. [1]

## Aims

Google Lens is a comparable image recognition system that can recognise a tattoo but not the pieces that make up a tattoo. Barcodes, QR codes, labels, text, famous buildings, and regions are all recognized by Google Lens. [2] [3]

TattScan works in a similar way to the diabetic retinopathy app. TattScan analyses and identifies a tattoo's primary elements, then develops a hashtag that it uses to search Twitter for comparable tattoos, which it then displays its results to the user. The user can decide if they wish to save the result.

This project has aimed to build a bridge between Google Lens and identifying elements of tattoos via image recognition.

## Technology

TattScan is a web application that has been created using the Amazon Web Services (AWS) Cloud 9 integrated development environment (IDE), primarily using Python code. Possible future iterations will be developed for Android devices.

It was expected that Django would be used as a Python web framework. Comparably, a web site can be hard-coded, but tools are available to simplify this. This is similar to Flask which has been used instead. Flask removes the bulk, hard-coding aspect of a web framework and simplifies creating and deploying a web application. [4]

AWS Simple Storage Service (S3) has been used to store data files (objects) in containers (buckets). [5]

{{DynamoDB}}

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# Project Requirements

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# Implementation

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# Conclusions

Possibly talk about identifying issues with healing tattoos.

# References

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