



PROJECT 1

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Shape Detection App

Develop an app that can :

- Detect any shape in an image
- Count the total number of objects
- Sort the objects by size
- Sort the objects by shape
- Sort the objects by size then shape
- Sort the objects by shape then size
- Create another image of collection of similar shapes at original position

1. Image is uploaded and analyze
2. contouring the shape of the image recognized
3. The shape of the contour is determine by how many vertices they have.
4. Size of the area of the contour detected for each object is calculated and sorted.
5. the shape is sorted by with vertices number detected in ascending order

Face Recognition in Image and Video

a) Develop an app that can recognize faces in an image provided.

b) Develop an app that can recognize faces in a video.

- Video file or live recording

1. face detection using Tensorflow model
2. box the face that are recognized
3. confidence level of face detected
4. label the detected image



Thank you!