METHODOLOGY

* Get image in OpenCV using imread
* Remove background using rembg function
* Resize the image to (250 x250) using resize method cv2.INTER\_LINEAR interpolation
* Convert the image to binary cv2.COLOR\_BGR2GRAY
* Apply threshold if required v2.THRESH\_BINARY + cv2.THRESH\_OTSU
* Finding the contour cv2.RETR\_CCOMP,cv2.CHAIN\_APPROX\_NONE
* Draw in contour
* Find the pixel aera and defect are area
* Using the color template (color matching technique) for defect part
* Apply the mask
* Get the defect area
* Using the condition grade the tomato

Result