

# Implement an image cropper in React Native

We would like you to implement an image cropper in React ( if possible React Native). **Please spend only ~4-hours on this.** And send whatever you got. We don't expect to have a fully functioning demo. We would like to see your reasoning and approach.

## Functionality:

- Use a fixed image to the cropper
- Provide an adjustable crop box on the image that can be adjusted with touch/mouse
- Crop action that returns a cropped image (image within the box)

## Examples:

1. JS : <https://jamesooi.design/Cropper.js/>

This cropper is 100% JS and shows all the functionality we look for . i.e.

Resize - crop box from the corners

Pan - move the box around the image keeping the same size

Crop - returns a cropped image (and/or the box coordinates)

2. React-Native :

<https://github.com/kmagiera/react-native-reanimated/blob/master/Example/PanRotateAndZoom/index.js>

This is a React-native library that uses multi-touch gestures to Pan-Zoom-Rotate an image. We can ignore Rotate. One limitation of this is this allows zooming only in one scale. You cannot zoom an image separately in X and Y direction.

3. Our Miel App: <https://miel.ai/>

This is our app Miel with an image-cropper with crop and search function. Download the app and see how the crop & search action works. ( Look for the cropper symbol in the red-circle)



## What we look for:

1. Implementation in React (better yet in React-Native)
2. How you handle touch events for the crop box
3. Modularity

## Bonus:

4. Handle multi-touch gestures to resize the crop box. (so far we couldn't do this in React-Native! So you can safely ignore this.)