1. Build an architecture in TF 2.0+ which combines two **different** object detection models

I am working with TensorFlow object detection API, I have used two pre-trained model(SSD-mobilenet and RCNN-resnet-50) models for my use case. Currently, my workflow is like this:

1. Take an input image, detect one particular object using SSD mobilenet.
2. Crop the input image with the bounding box generated from step 1 and then resize it to a fixed size(e.g. 200 X 300).
3. Feed this cropped and resized image to RCNN-resnet-50 for detecting smaller objects inside the ROI.

Combining two models and saving it into one and using it at the time of inference