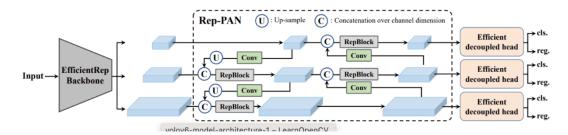R11921101 hw1 report
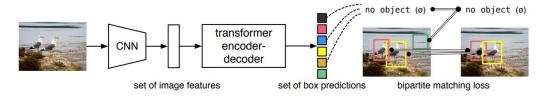
1.

(a)

CNN

Detr

2.

	Map50:95	Map75	Map50
Detr	0.434	0.423	0.759
Yolov6	0.481	0.487	0.789

Detr

Yolov6

3.

	YOLO v6	DETR
Architecture	CNN	CNN + transformer
Augmentation	dict(hsv_h=0.015,	image crop, image flip, image scale, color jitter

	hsv_s=0.7, hsv_v=0.4, degrees=0.0, translate=0.1, scale=0.5, shear=0.0, flipud=0.0, fliplr=0.5, mosaic=1.0, mixup=0.0,)	
Loss function	classification loss (varifocal loss), detection loss (distribution focal loss)	classification loss (binary cross-entropy), bounding box regression loss (L1 + generalized IoU (GIoU) losses)
Cross validation	Yes	Yes

4.
Yolov6

Detr