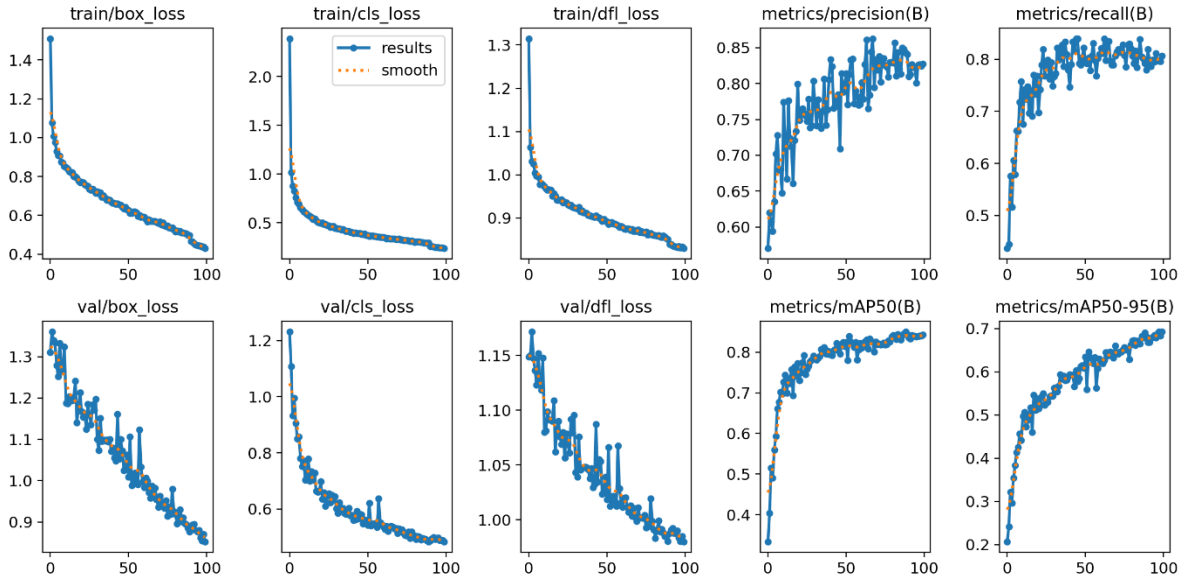
Flow Chart Dataset Object Detection

허재호

Coco to YOLO Code

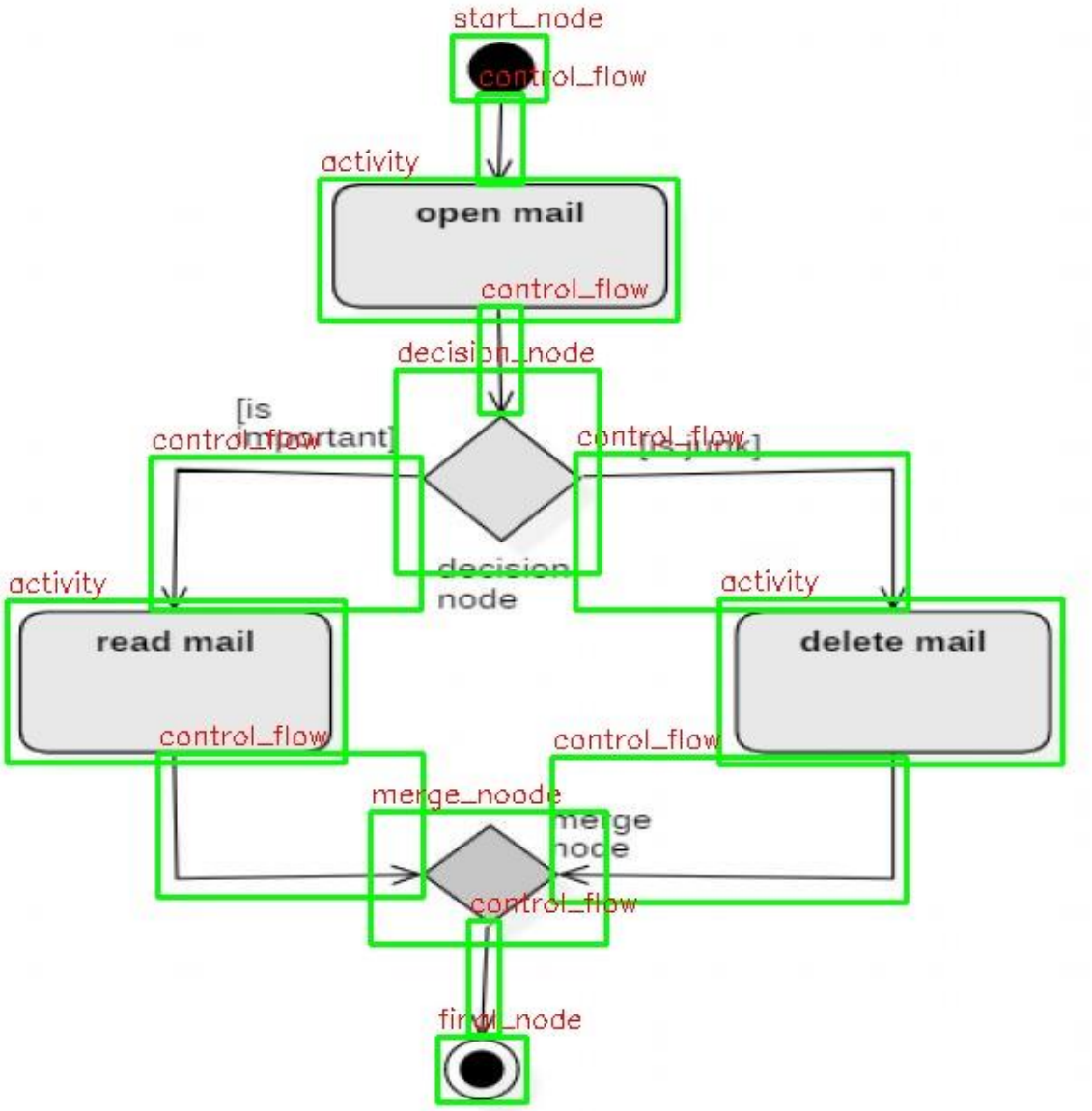
```python
def convert_coco_to_yolo(coco_json_file, org_images_folder, images_folder, labels_folder):
    with open(coco_json_file, 'r') as f:
        data = json.load(f)
    images = data['images']
    annots = data['annotations']

    for image in images :
        org_file_name = image['file_name']
        file_name = image['file_name'].split('.jpg')[0]
        id = image['id']
        width, height = image['width'], image['height']
        for annot in annots :
            if annot['image_id'] == id :
                category_id = annot['category_id']
                x, y, w, h = annot['bbox']
                x_center = (x + w / 2) / width
                y_center = (y + h / 2) / height
                w /= width
                h /= height

                # image copy to dst folder
                image_org_path = os.path.join(org_images_folder, org_file_name)
                image_dst_path = os.path.join(images_folder, org_file_name)
                copy(image_org_path, image_dst_path)

                # write to text file
                yolo_ann = f"{category_id} {x_center:.6f} {y_center:.6f} {w:.6f} {h:.6f}\n"
                txt_file_path = os.path.join(labels_folder, f"{file_name}.txt")
                with open(txt_file_path, 'a') as f:
                    f.write(yolo_ann)
```

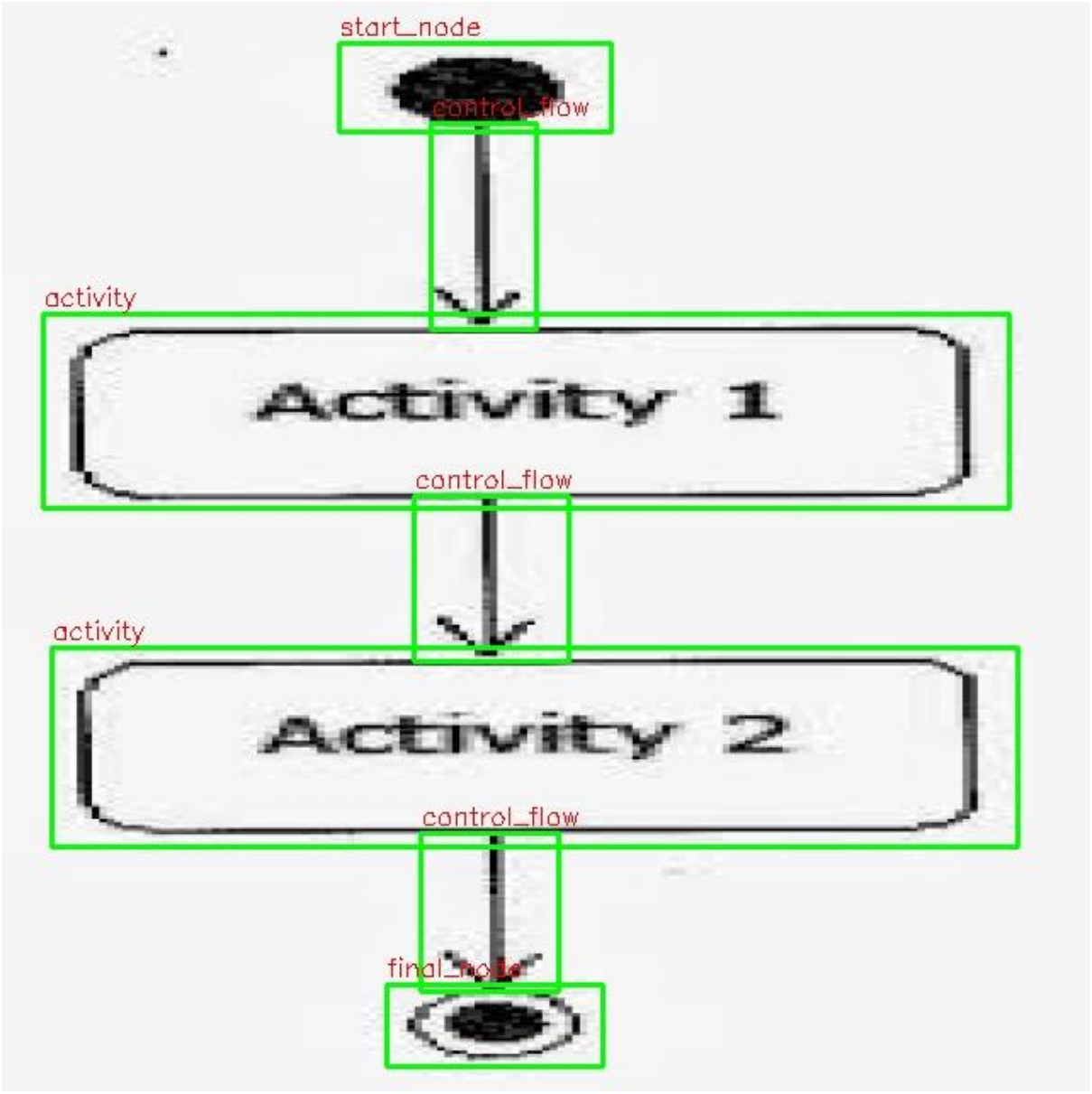
Train Results

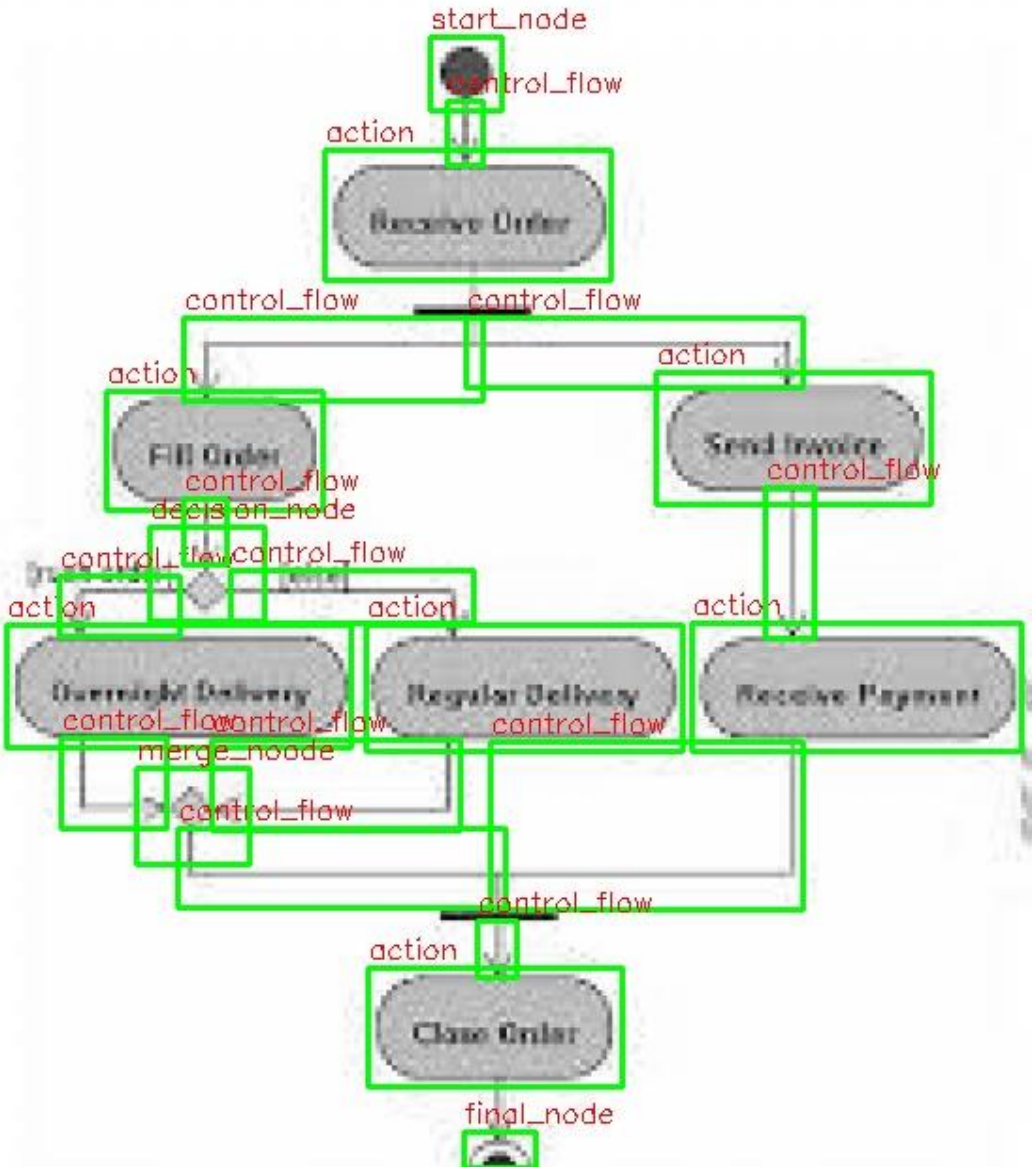


mAP50-95 best 결과값: 0.69231

Test Results




start_node
control_flow
activity
Activity 1
control_flow
activity
Activity 2
control_flow
final_node


start_node
control_flow
action
control_flow
control_flow
action
action
control_flow
decision_node
control_flow
control_flow
action
action
action
control_flow
control_flow
control_flow
merge_node
control_flow
control_flow
action
final_node