How to setup training model for performance evaluation

1. Standard Training/Testing Dataset
    a. Please follow the standard labeling format like cityscapes: https://www.cityscapes-dataset.com/ and https://www.cityscapes-dataset.com/dataset-overview/#class-definitions .
    b. Classes we expected in Fine annotations :
        i. Must have: sea, land, sky
        ii. Optional: cloud, smoke, direct sun light
    c. Usually, you only need to change the "load dataset" module in your programming.
    d. Before your deliver the code, please test your programming with sample data in https://www.cityscapes-dataset.com/examples/#fine-annotations

2. The number of classes
    a. Change the output class and output layer in your model

3. Evaluation metrics
    a. Must have:
        i. intersection-over-union metric IoU for class
        ii. instance-level intersection-over-union metric iIoU for class
        iii. IoU for category
        iv. iIoU for category
    b. Optional:
        i. IoU and iIoU for each category

4. Programming Environment
    a. Provide your test environment with "requirements.txt". An example: https://github.com/ultralytics/yolov5/blob/master/requirements.txt

5. Prepare your main training script
    a. You should have a "train.py" to run your training model directly, and we only to use this script.

6. Prepare your parameter file
    a. Explain the details about your parameter file, and we may change it before training.