Testing and Evaluation Documentation

1. Environment Setup

   Clone the Repository & Install Dependencies:

   - Clone the repository:
     ```
     git clone https://github.com/saomyaraj/pLitter.git
     ```
   - Install the required packages:
     ```
     cd pLitter
     pip install -e .
     ```

   Switch to the Riverine Model:

   - In your testing scripts or notebook, ensure you initialize the detector with the `'cctv'` model for riverine settings:
     ```
     from plitter.detector import detector

     model = detector('cctv')
     ```

2. Run the Test Script

   Run the Script:

   - Execute the test script from the terminal:
     ```
     python test_evaluation.py
     ```
   - The script will display annotated frames, log per-frame metrics (object counts and processing times), and output aggregate metrics upon completion.

   Stopping the Test:

   - Press the `q` key in the display window to exit the test at any time.

I've tried my best to complete the assignment within the deadline, but due to time, GPU limits, and other assignments, I couldn't achieve the desired performance.