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.