**Technical Documentation for Object Detection Model**

**1. Requirements.txt File**

Below is the list of necessary libraries and dependencies for the project. Ensure these are installed before running the model.

1. streamlit
2. numpy
3. pandas
4. opencv-python
5. matplotlib
6. torch
7. torchvision
8. ultralytics
9. tensorboard
10. scikit-learn
11. Tensorflow

**Installation Command**

To install all dependencies:

pip install -r requirements.txt

**2. Hardware Requirements**

**Minimum Hardware Requirements**

For basic functionality and small datasets:

* **Processor :** Intel Core i5 or AMD Ryzen 5
* **RAM :** 8 GB
* **Storage :** 256 GB SSD
* **Graphics Card (GPU) : )**: Integrated GPU (e.g., Intel UHD Graphics)