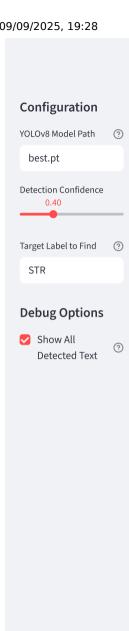
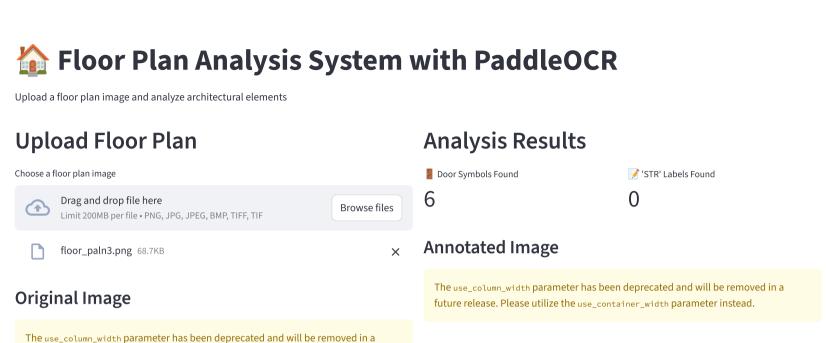
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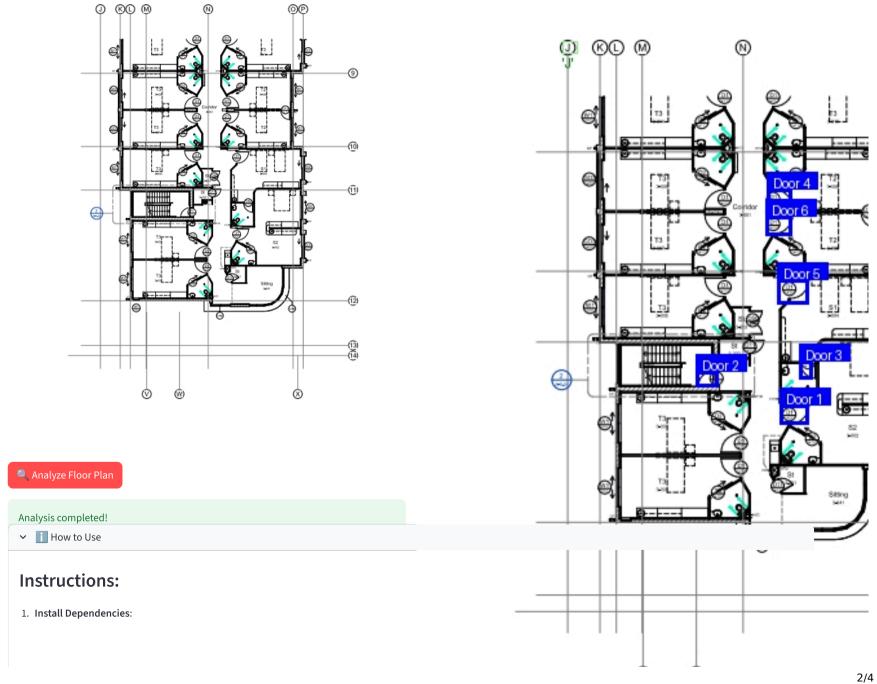
future release. Please utilize the use_container_width parameter instead.





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Floor Plan Analyzer

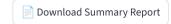
```
# For CPU version (recommended for most users)
pip install paddlepaddle paddleocr ultralytics streamlit opencv-python pillow pandas matplotlib numpy

# Or for GPU version (if you have CUDA)
pip install paddlepaddle-gpu paddleocr ultralytics streamlit opencv-python pillow pandas matplotlib numpy
```

2. Troubleshooting PaddleOCR:

Red boxes: Target labels, Blue boxes: Door symbols, Green boxes: All text (if

- o If you get "Unknown argument" errors, update PaddleOCR: pip install --upgrade paddleocr
- If installation fails, try: pip install paddlepaddle==2.4.2 paddleocr==2.6.1.3
- For M1/M2 Macs: Use pip install paddlepaddle (CPU version only)
- 3. Model Setup: Ensure your trained YOLOv8 model file is accessible and enter the correct Download Results
- 4. Upload Image: Choose a floor plan image in supported formats (PNG, JPG, etc.)



Download Annotated Image

- 5. Set Parameters:
 - Adjust detection confidence threshold (0.1-1.0)
 - Enter the target label you want to find (e.g., "STR", "BR", "LR")
 - Enable "Show All Detected Text" for debugging
- 6. Analyze: Click the "Analyze Floor Plan" button to start processing
- 7. Review Results:
 - View metrics for door symbols and target labels found
 - Examine the annotated image with highlighted detections
 - Download detailed reports and annotated images

Color Coding:

- Red boxes: Target text labels (e.g., "STR") with original text and confidence
- Blue boxes: Door symbols detected by YOLO
- Light Green boxes: All detected text (debug mode)

Improvements in this version:

- PaddleOCR Integration: More accurate text detection
- Image Preprocessing: Enhanced contrast and noise reduction
- Better Text Matching: Fuzzy matching for OCR errors
- Improved Visualization: Text labels show original text and confidence
- **Debug Mode:** Option to see all detected text
- **Duplicate Removal**: Prevents duplicate text detections

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