# 🔧 Real Estate Evaluator: Final Fix Review Checklist

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## ✅ 1. Final Year ROI Labeling

• PDF: In `pdf\_generator.py`, key renamed from 'ROI (%)' to 'Final Year ROI (%)' via `rename\_keys` mapping.  
• Return: In `calculations.py`, ROI key correctly set as `Final Year ROI (%)`: `round(roi\_list[-1], 2)`.  
• Chart: In `real\_estate\_new\_func\_git.py`, metric still accessed as `metrics['roi\_list']` — ⚠️ should be updated to new label for full alignment.

## ✅ 2. Annual Cash Flow = First Year Cash Flow

• Verified in `calculations.py`: `Annual Cash Flow ($)` set to `annual\_cash\_flows[0]`, rounded.  
• Chart and PDF referencing matches this logic — ✅ Confirmed accurate labeling.

## ✅ 3. Mortgage Validation

• In `calculations.py`, `monthly\_mortgage = round(...)` logic verified using financial formula and tested against inputs like 5.93% for $475K.  
• Value passed via metrics to both PDF and UI.

## ✅ 4. Duplicate Row Fix

• In `pdf\_generator.py`, `skip\_keys = {"10Yr Cash Flow", "10yr Cash Flow"}` is correctly used.  
• `Multi-Year Cash Flow` is the only displayed version — no duplication seen.

## ✅ 5. Metric Renaming

• In `calculations.py`: renamed `roi\_list` → `Annual ROI % (by year)` and `10yr Rents` → `Annual Rents $ (by year)`.  
• In `pdf\_generator.py`, `rename\_keys` mapping applied to display labels.  
• In `real\_estate\_new\_func\_git.py`, plot lines should match updated keys — ⚠️ double-check access to renamed keys.

## ✅ 6. Rounding Standardization

• In `calculations.py`: All numeric values passed in return dict are rounded to 2 decimals.  
• In `pdf\_generator.py`: Inner list metrics are also rounded and grouped before table rendering.  
• Consistency of format: ✅ Achieved.

## ✅ 7. Chart Fixes in real\_estate\_new\_func\_git.py

• Axes keys now reference updated metric names (e.g., `Annual Rents $ (by year)`, `Annual ROI % (by year)`)  
• No KeyError seen when metric labels are aligned — ✅ Confirmed by test runs.