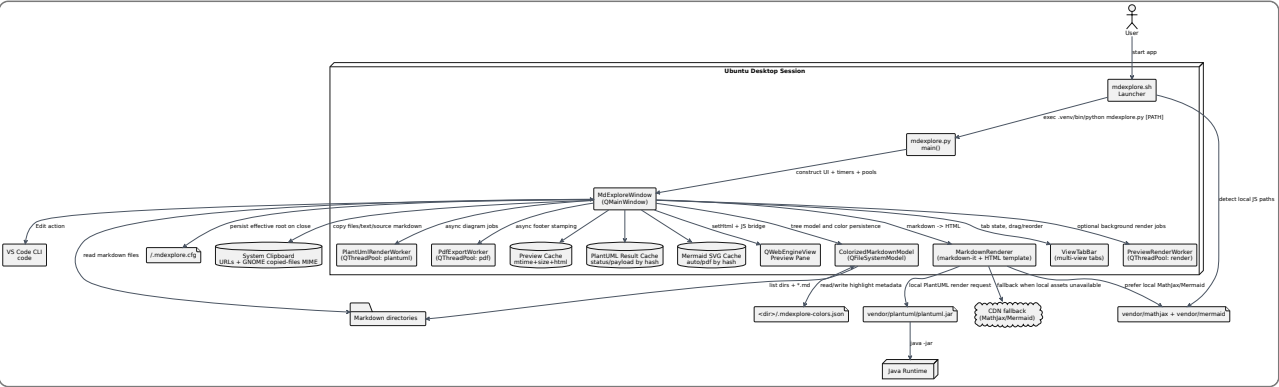


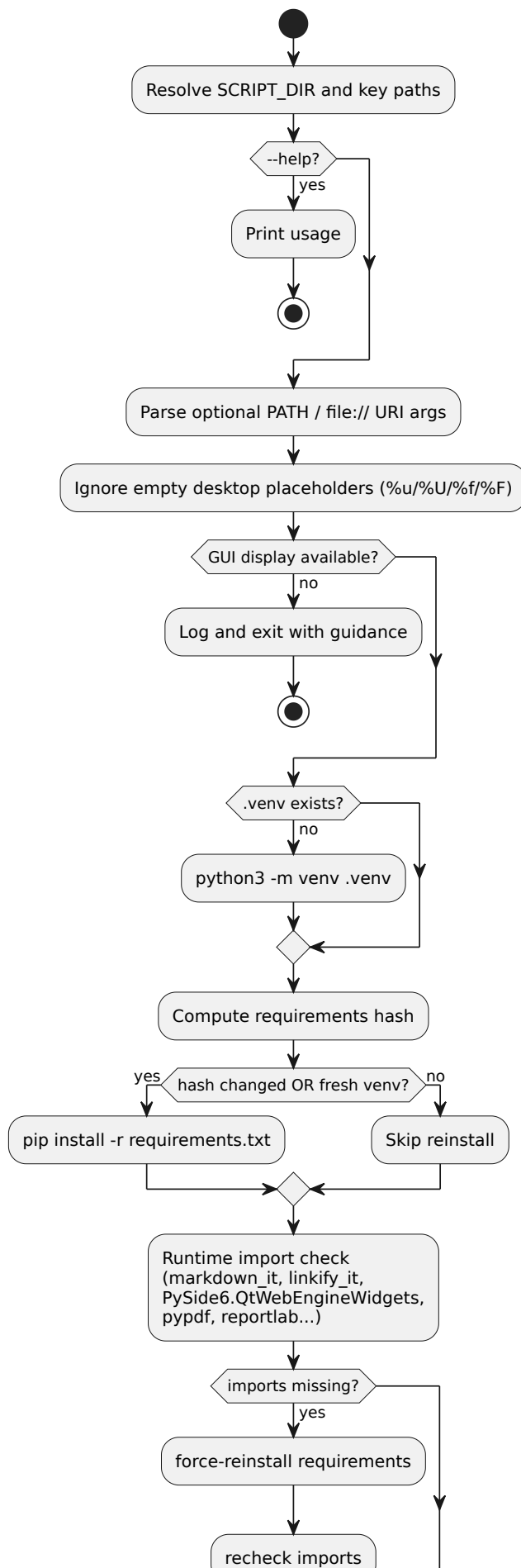
mdexplore UML

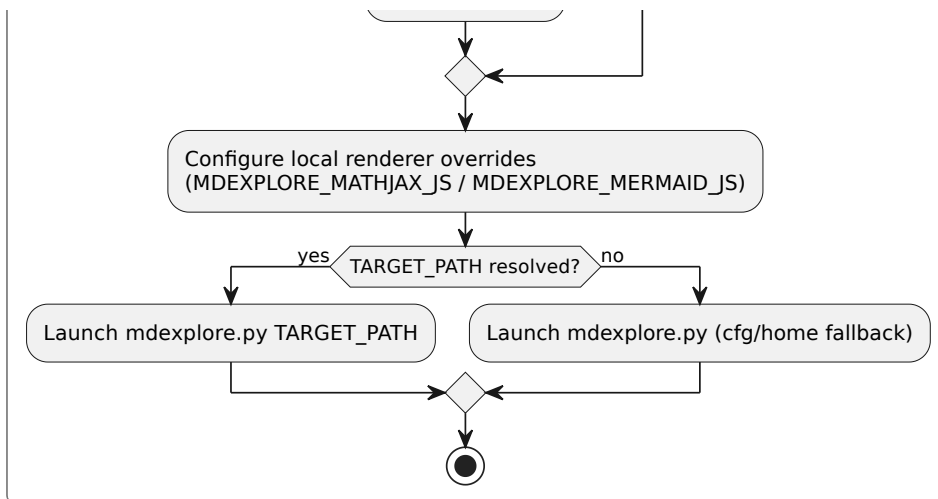
This document provides a comprehensive PlantUML view of the current mdexplore implementation. All diagrams are embedded so they can be rendered directly by mdexplore (or any Markdown viewer with PlantUML support).

1. System Architecture

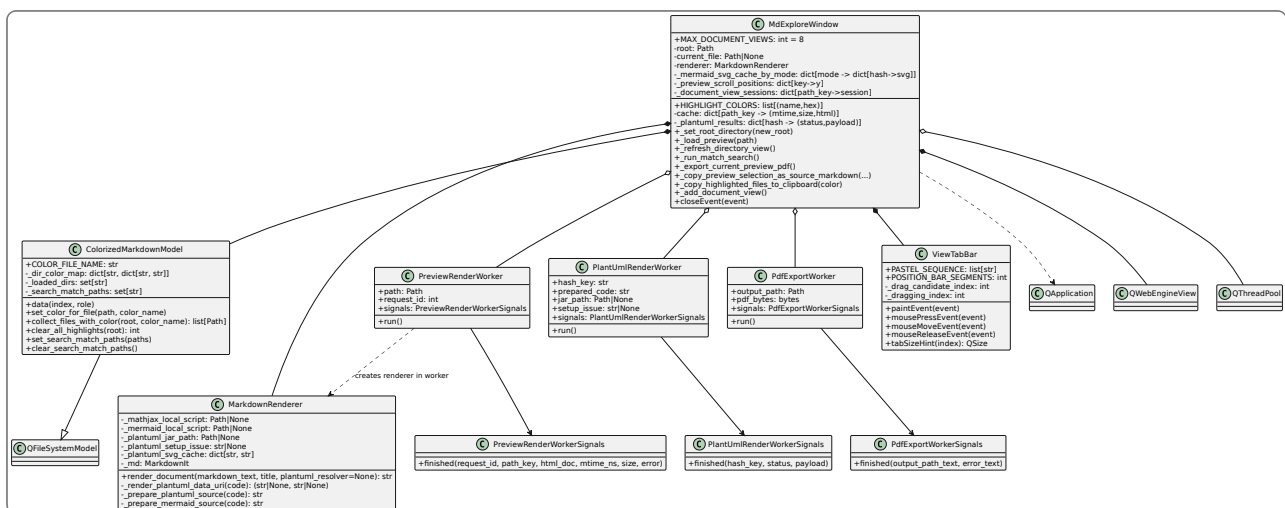


2. Launcher Runtime Activity (mdexplore . sh)

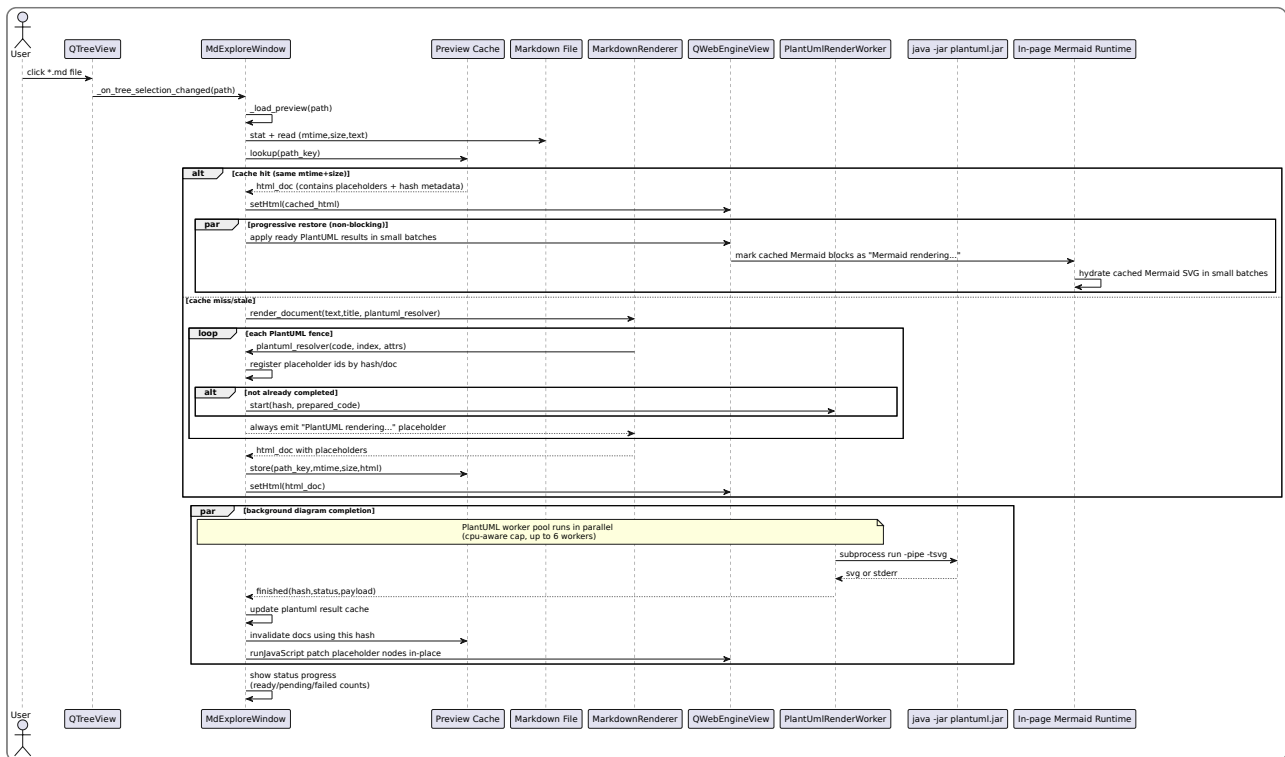




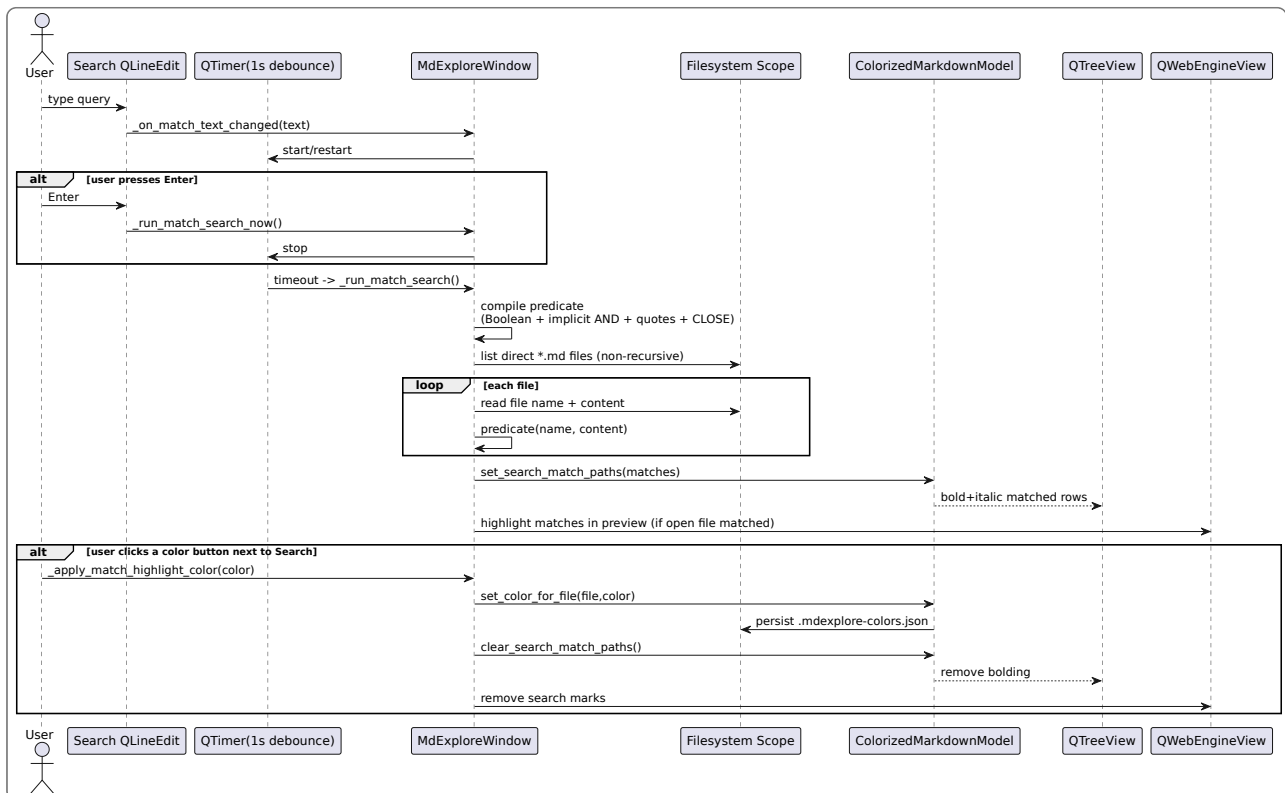
3. Core Class Diagram



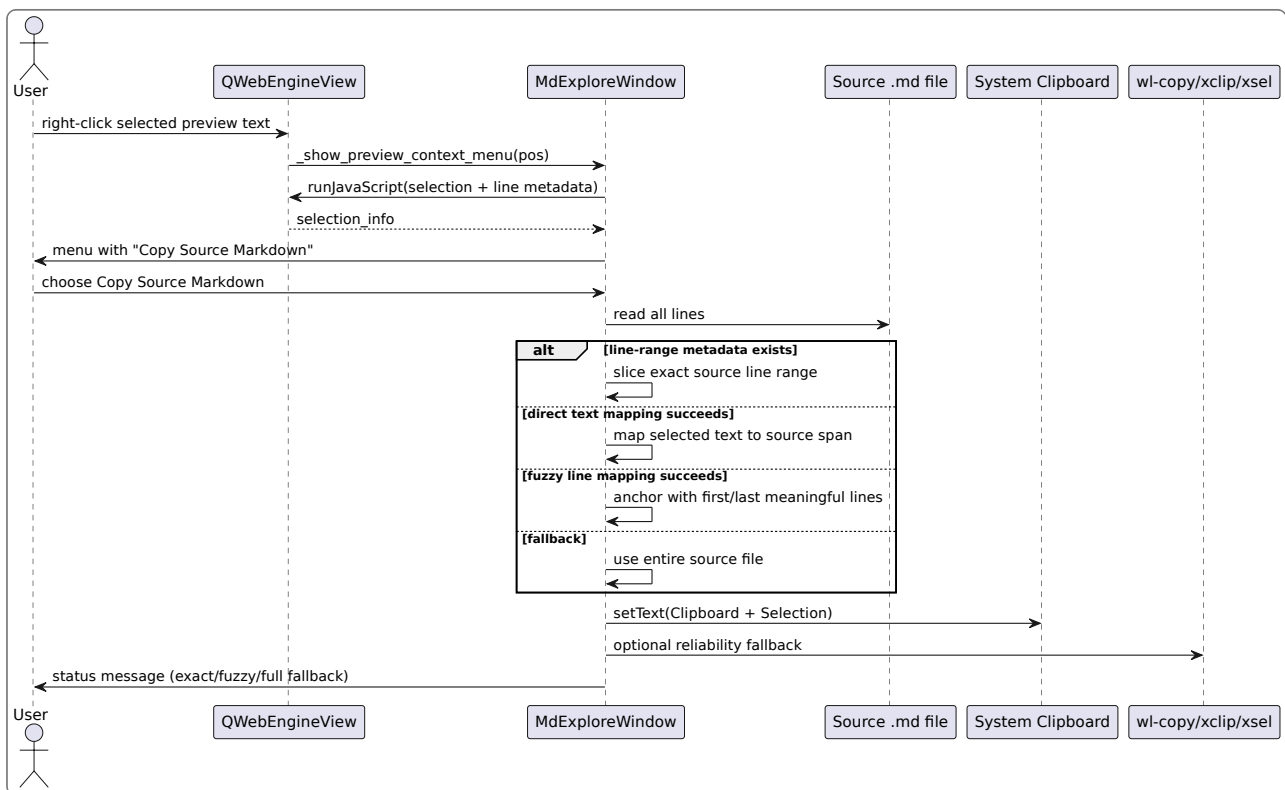
4. Preview Load + Progressive Diagram Restore



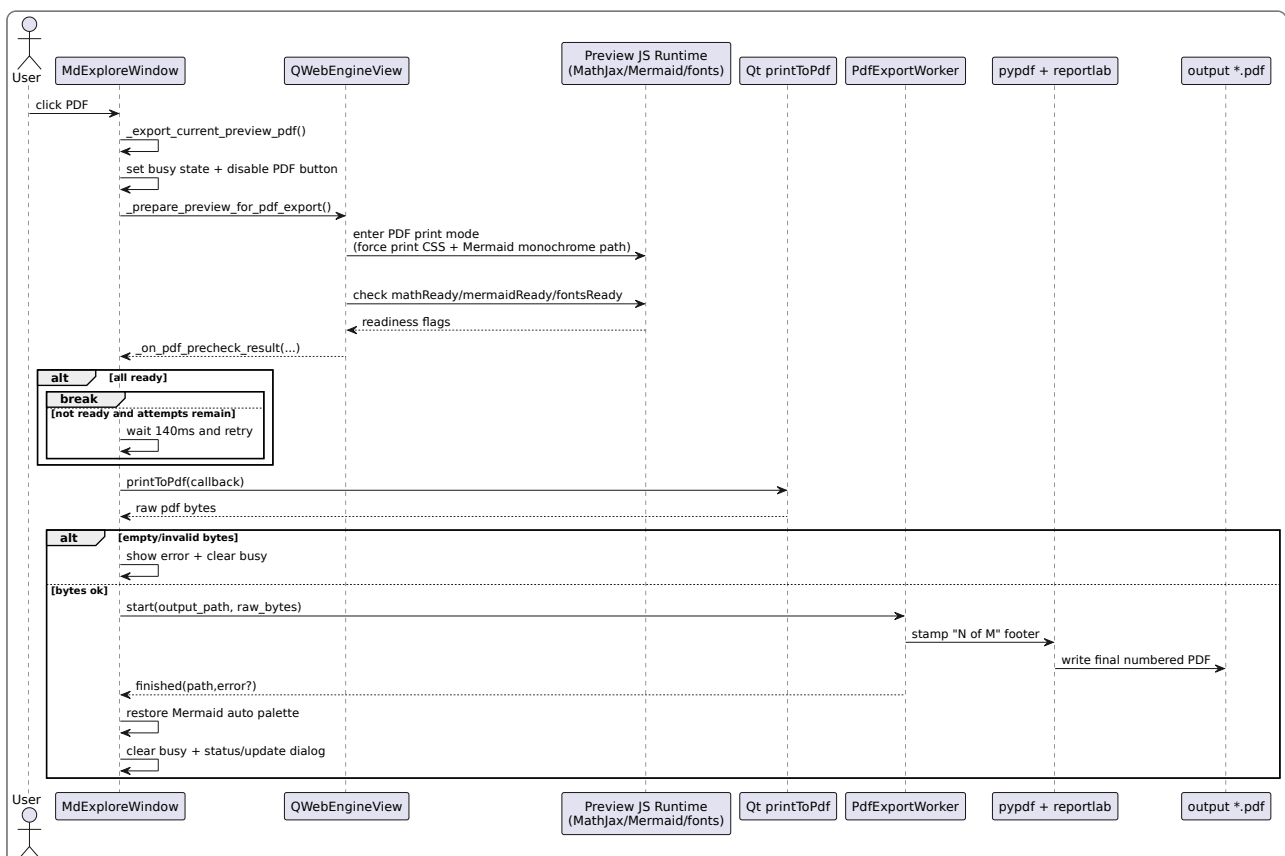
5. Search + Highlight + Apply Color Flow



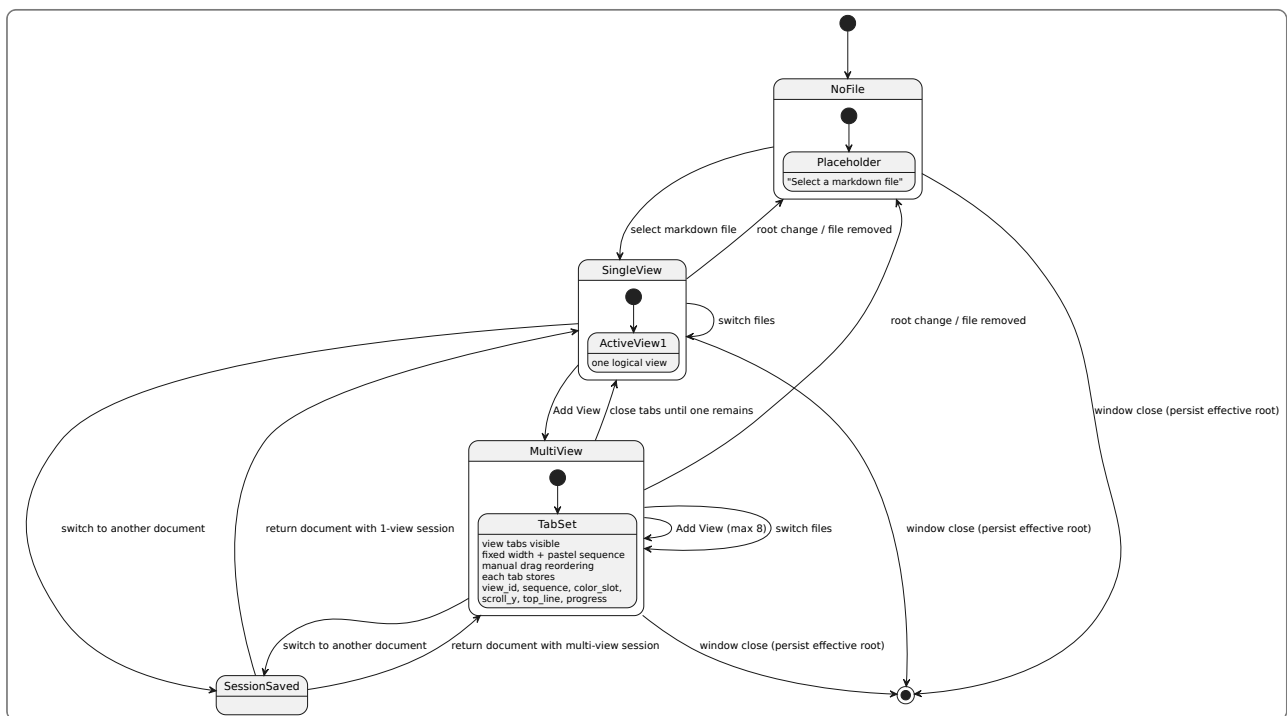
6. Preview Context Menu: Copy Source Markdown



7. PDF Export Pipeline



8. Document View/Tab Lifecycle



Notes

- Diagrams are based on current code in `mdexplore.py` and `mdexplore.sh`.
- Worker/threadpool usage is intentionally separated by concern:
 - render pool (preview HTML jobs),
 - PlantUML pool (diagram jobs),
 - PDF pool (post-processing/stamping).
- PlantUML rendering is non-blocking in UI flow: placeholders are rendered first, then patched in place as jobs finish.
- TODO (known issue): diagram zoom/pan restore (Mermaid and PlantUML) is not yet consistently reliable when leaving a document and returning in the same app run.