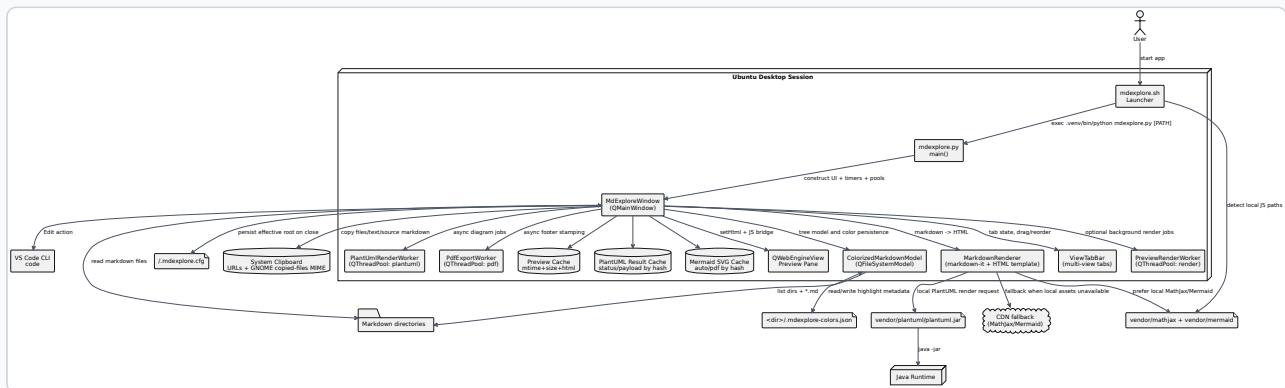


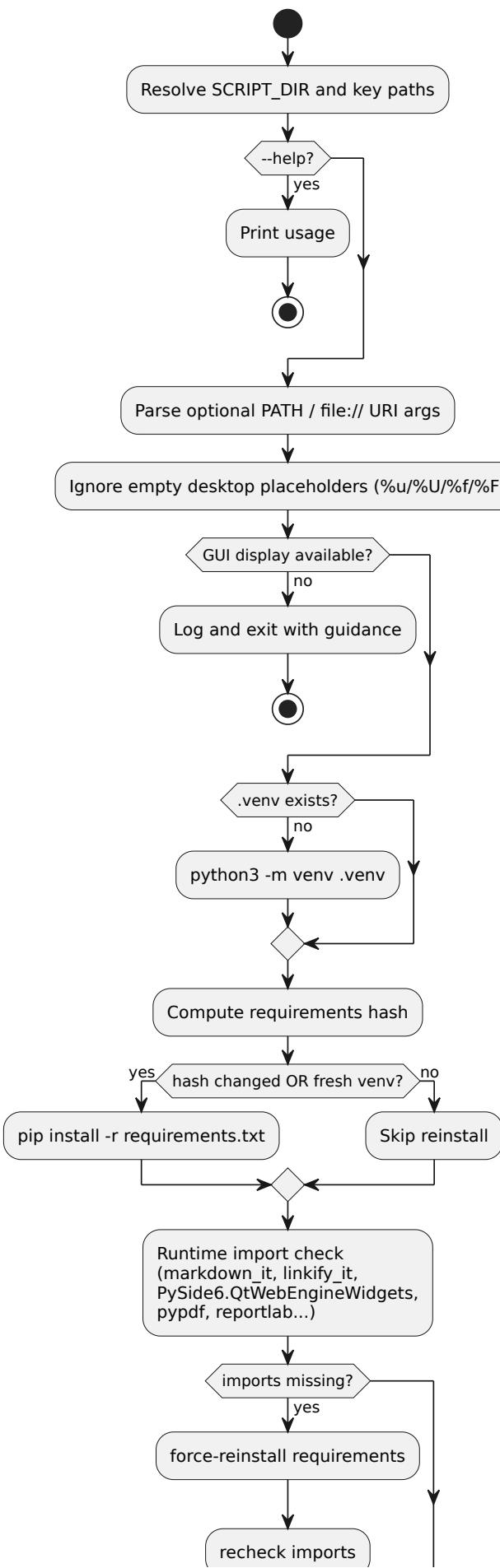
# mdexplore UML

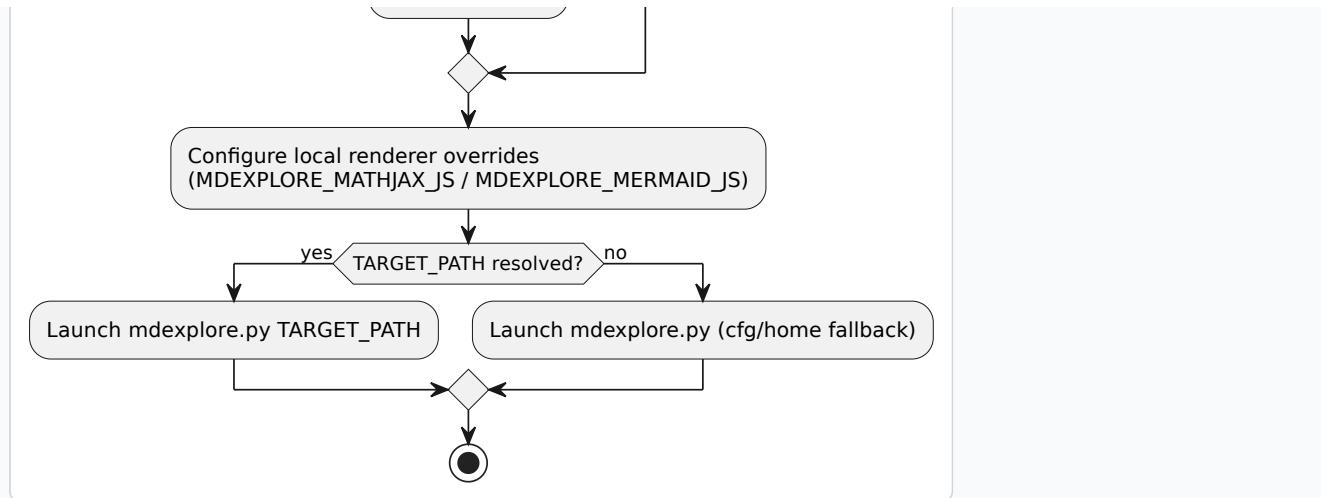
This document provides a comprehensive PlantUML view of the current `mdexplore` implementation. All diagrams are embedded so they can be rendered directly by `mdexplore` (or any Markdown viewer with PlantUML support).

## 1. System Architecture

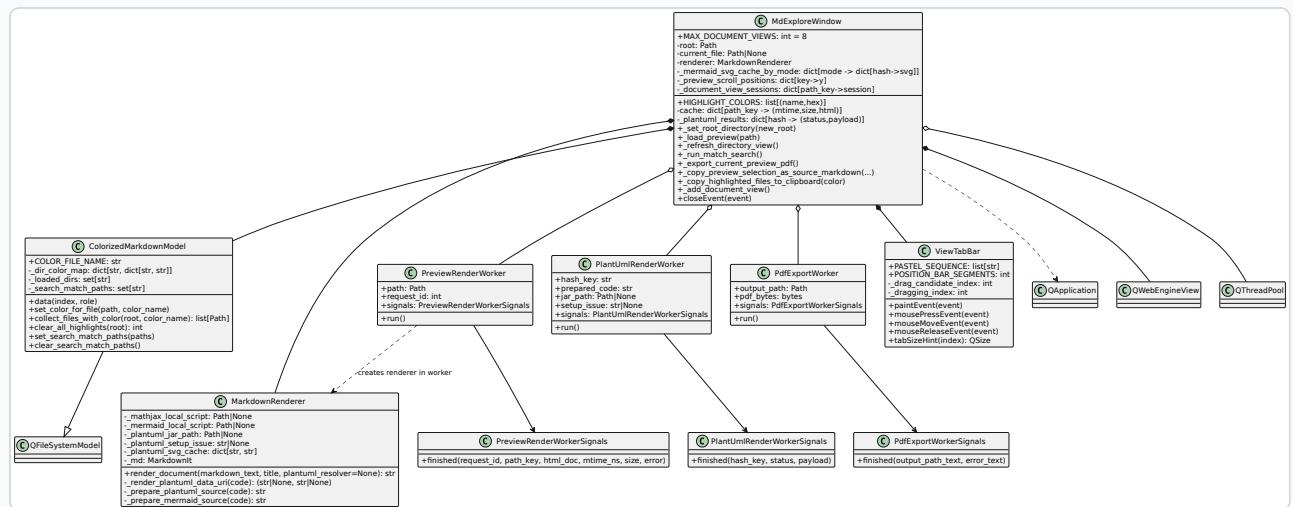


## 2. Launcher Runtime Activity (`mdexplore.sh`)

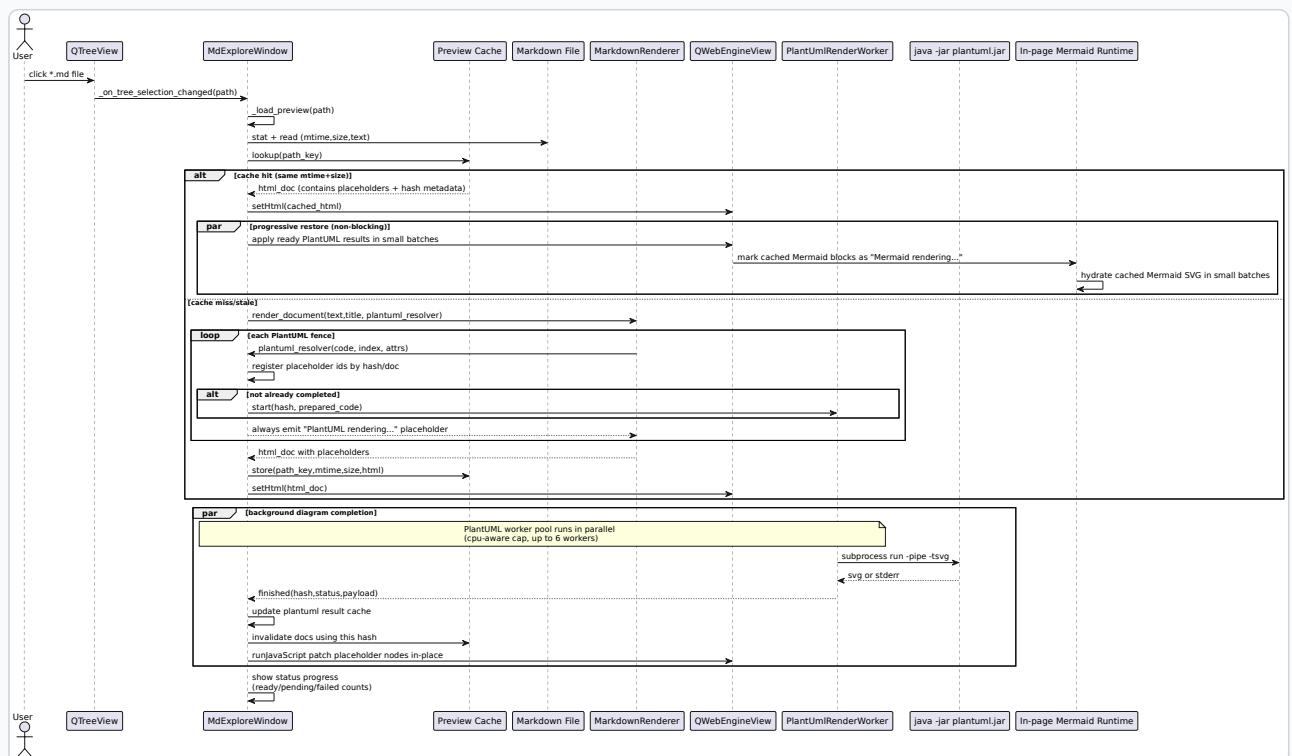




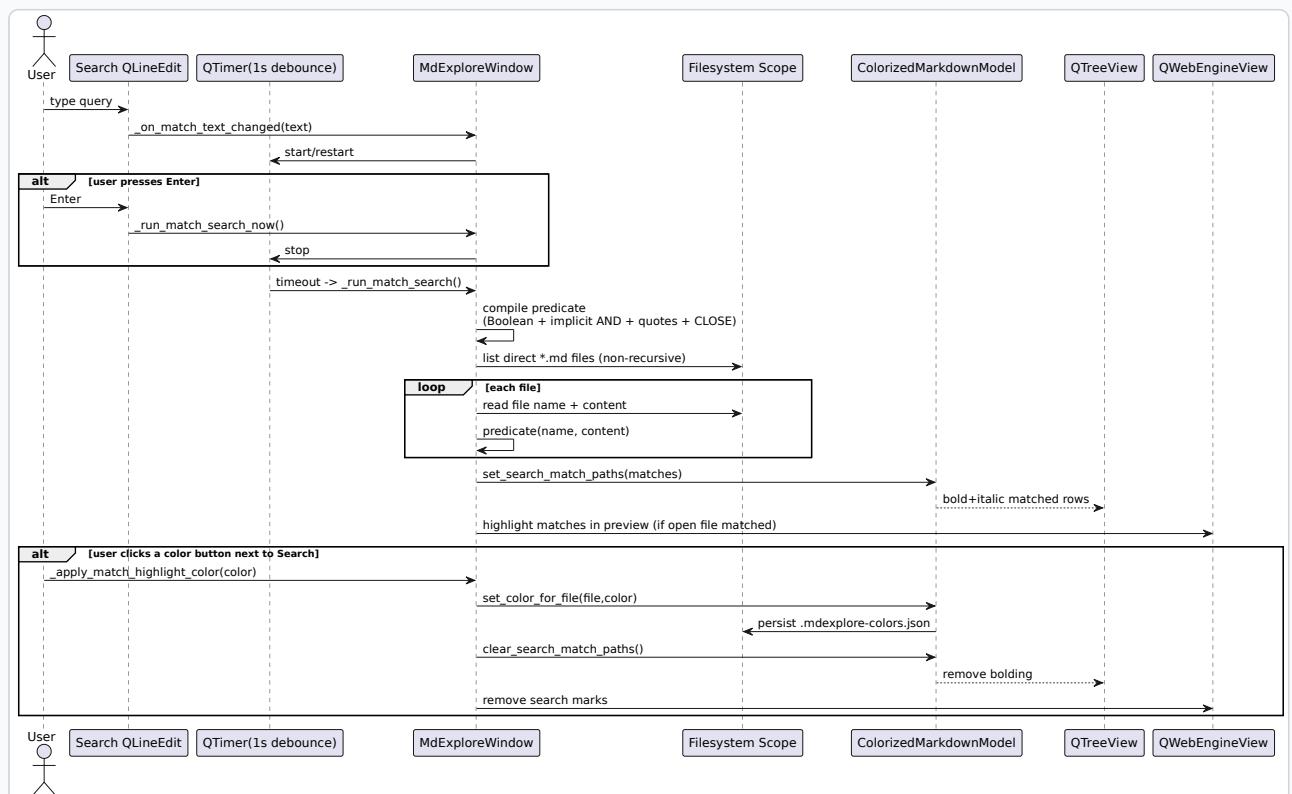
### 3. Core Class Diagram



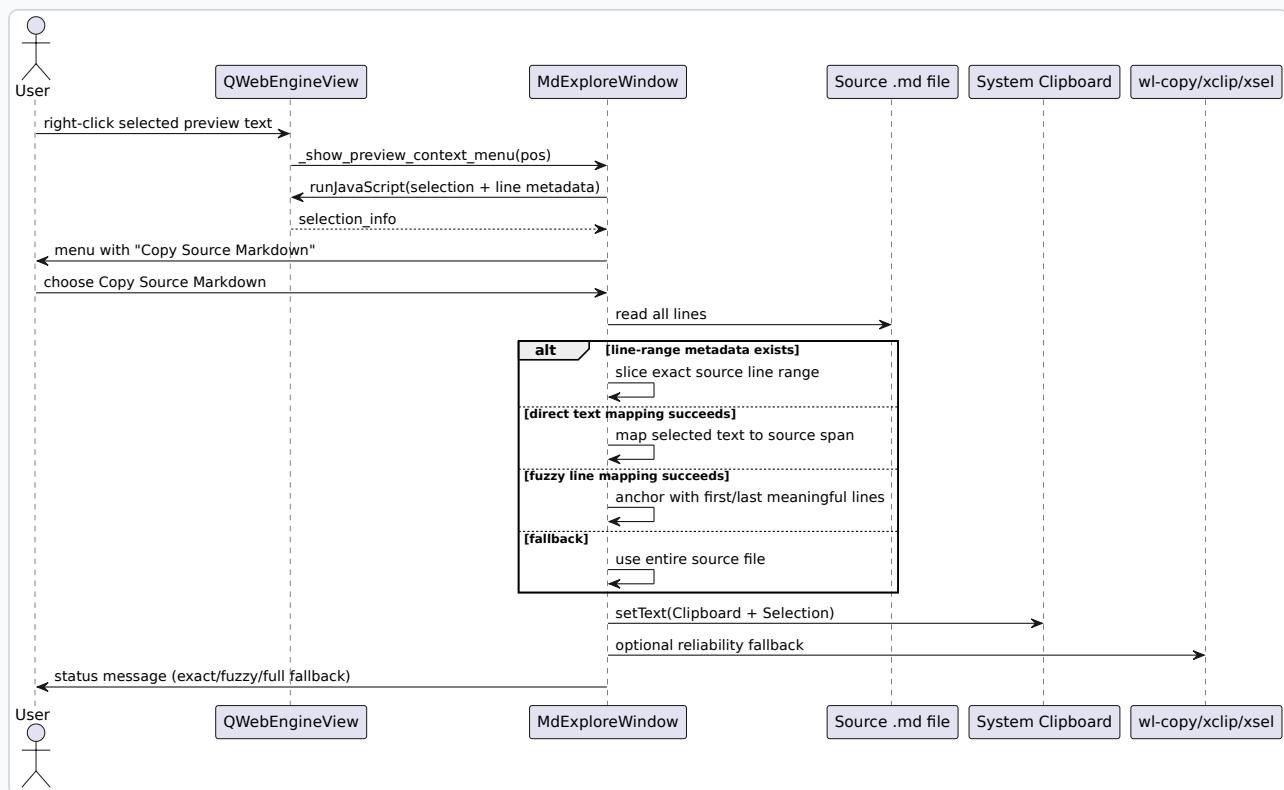
## 4. Preview Load + Progressive Diagram Restore



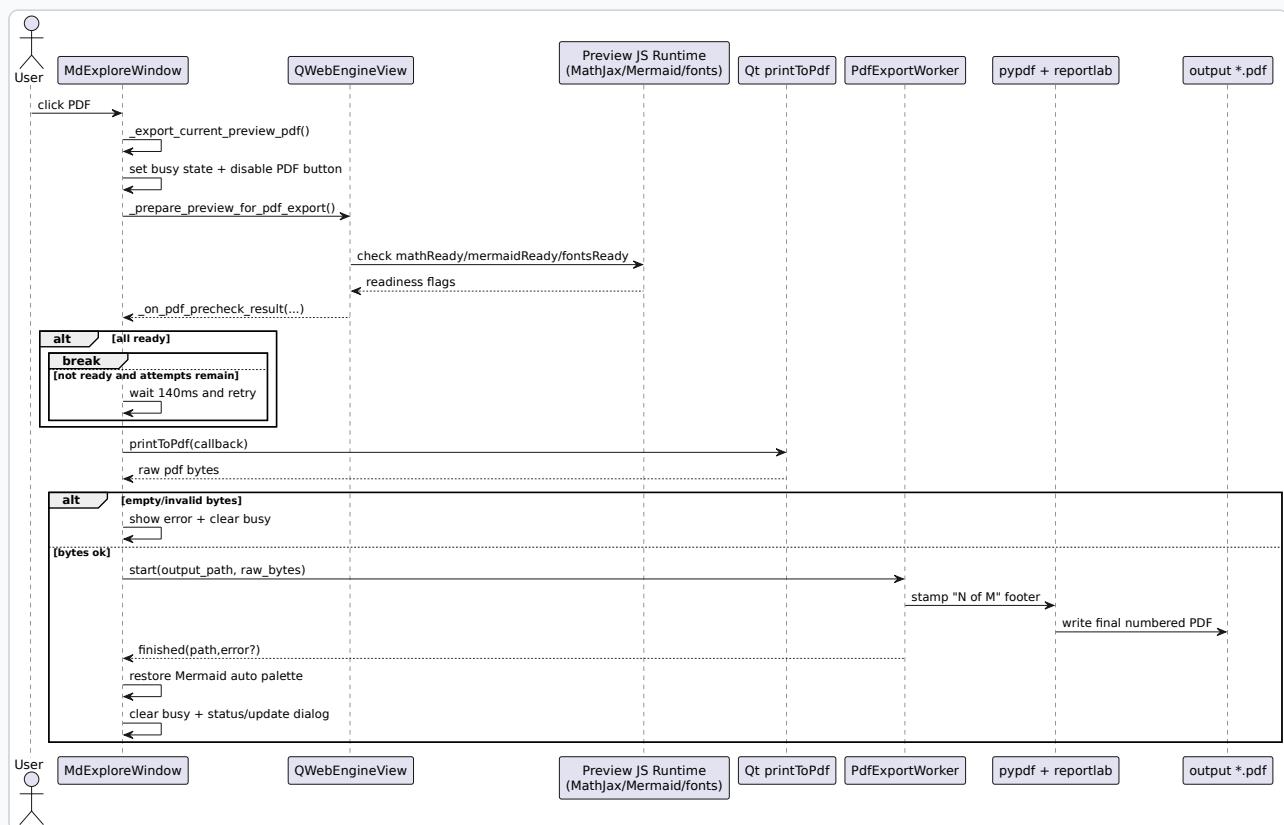
## 5. Search + Highlight + Apply Color Flow



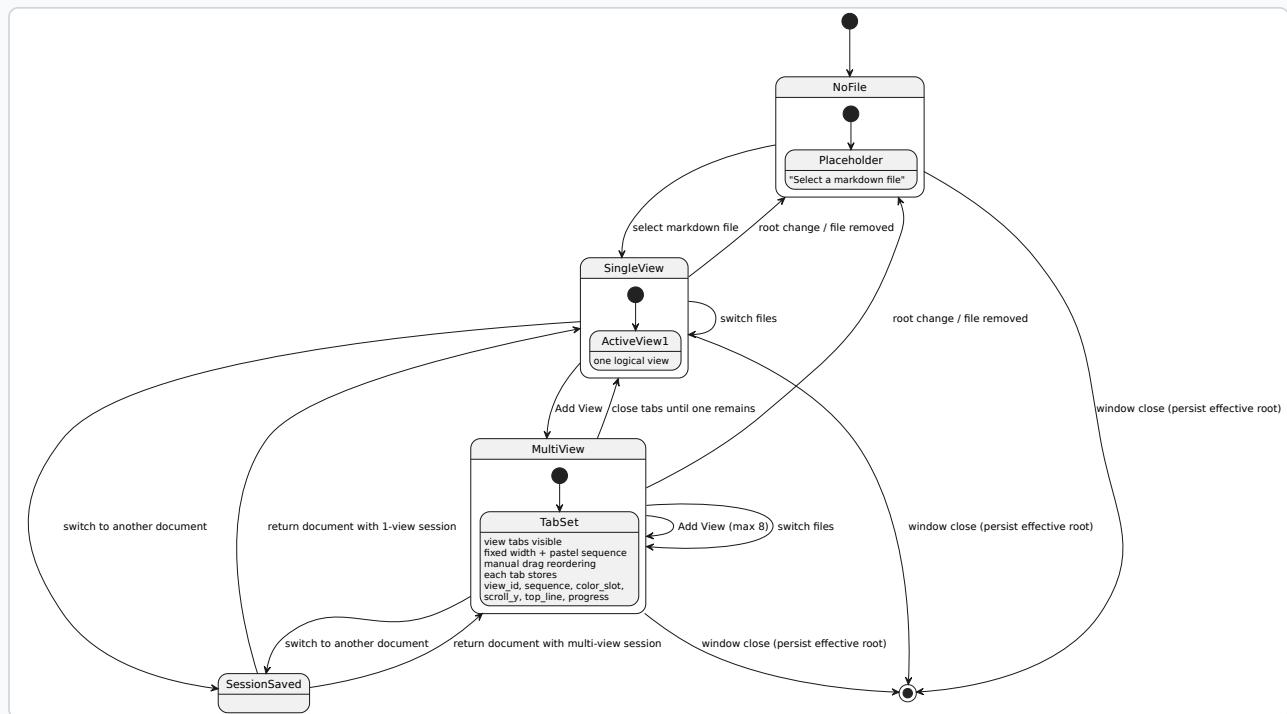
## 6. Preview Context Menu: Copy Source Markdown



## 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.