

Mermaid All-Diagram Sample Pack

This file is a playground document with a broad set of Mermaid diagram types you can render with `md2pdf`.

Emoji + Text Rendering Showcase

- ✅ Default path test: `xelatex` + SVG Mermaid + `twemojis/newunicodechar` mapping.
- ✅ Unicode symbols in text: \geq , \leq , \nearrow should render without warnings.
- 😊 Emoji-in-text sample: if you can see this smiley in the PDF, emoji mapping is active.
- 🚀 Chromium mode option: `--renderer chromium` uses browser-native emoji shaping.

This page intentionally mixes emoji, symbols, and Mermaid diagrams so one sample file validates both text rendering and diagram quality.

LaTeX Math Equations

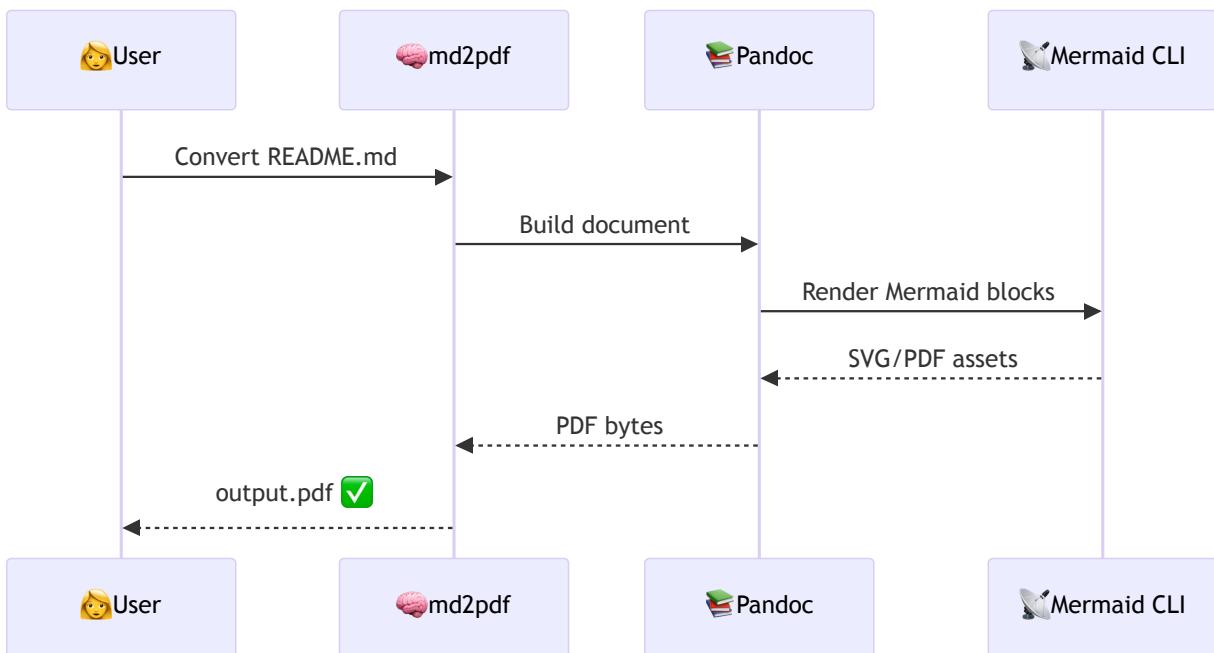
- This is inline: $a^2 + b^2 = c^2$ and $\sqrt{3x - 1} + (1 + x)^2$
 - This expression uses `\$` to display a dollar sign: $\sqrt{\$4}$
 - To add a math expression as a block, start a new line and delimit the expression with two dollar symbols `$$`.
- The Cauchy-Schwarz Inequality

$$\left(\sum_{k=1}^n a_k b_k \right)^2 \leq \left(\sum_{k=1}^n a_k^2 \right) \left(\sum_{k=1}^n b_k^2 \right)$$

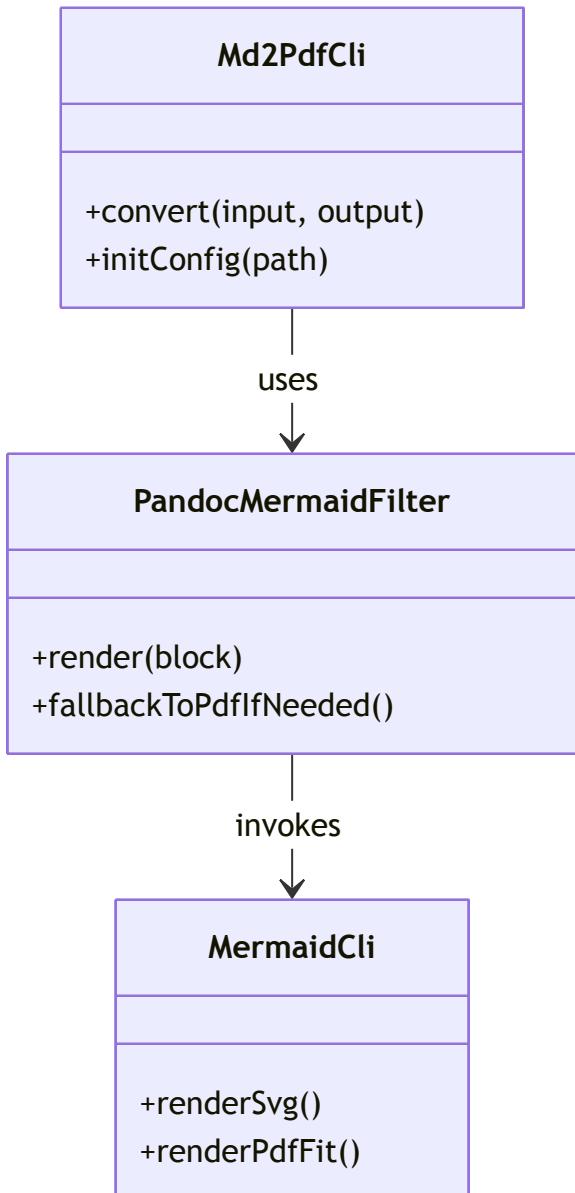
1. Flowchart



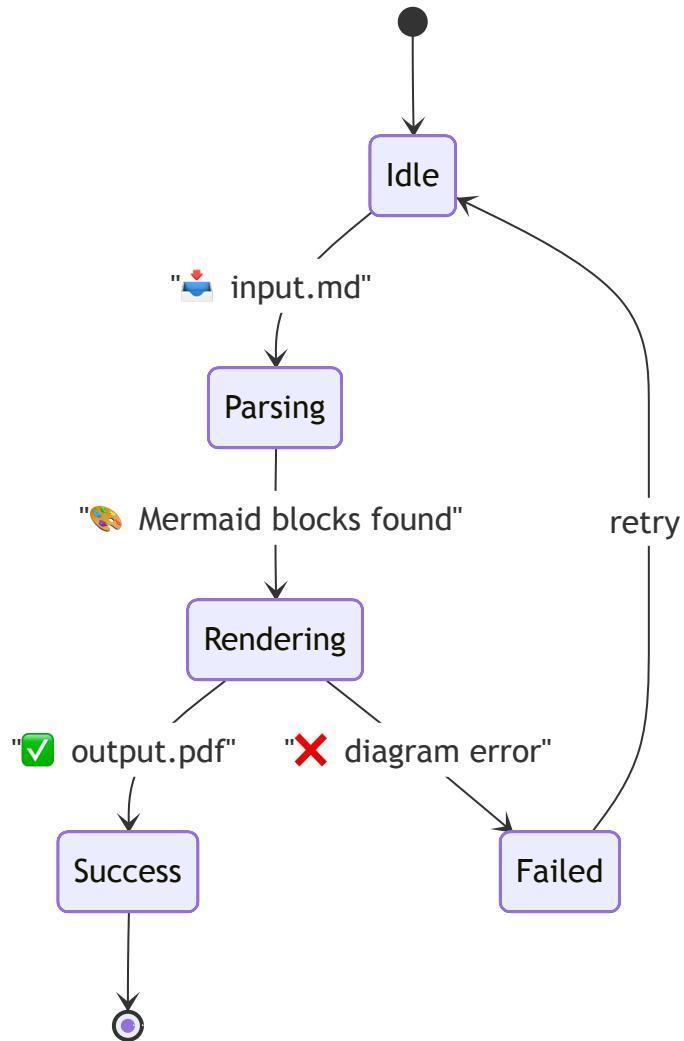
2. Sequence Diagram



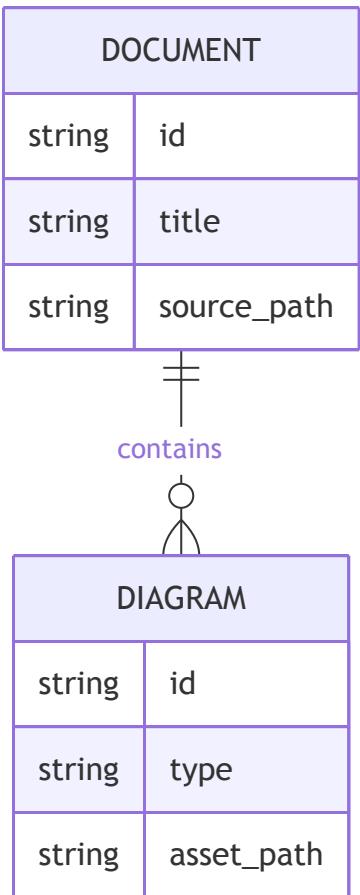
3. Class Diagram



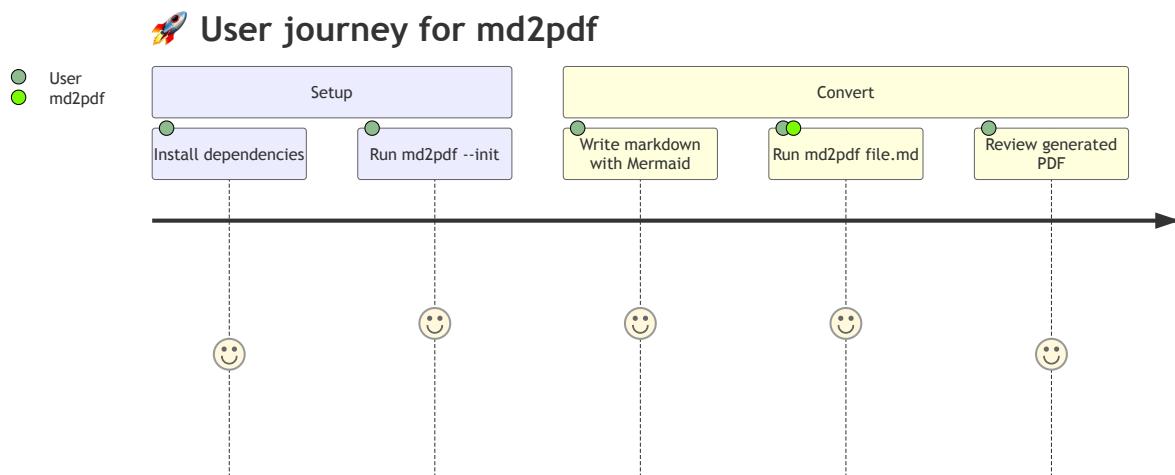
4. State Diagram



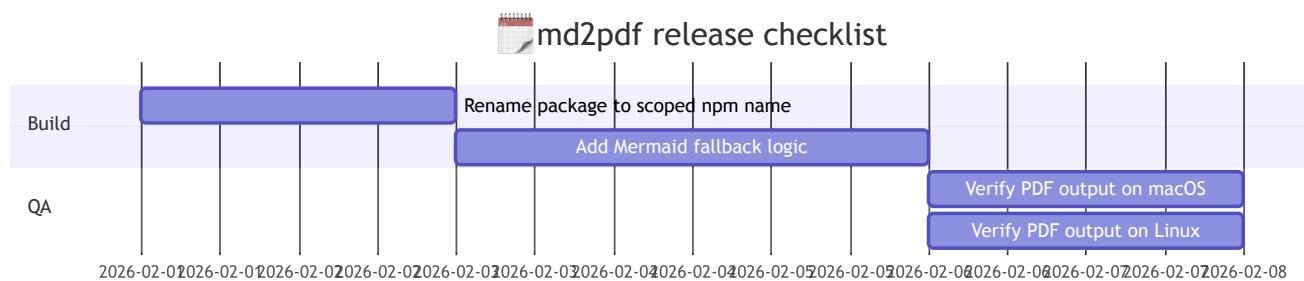
5. Entity Relationship Diagram



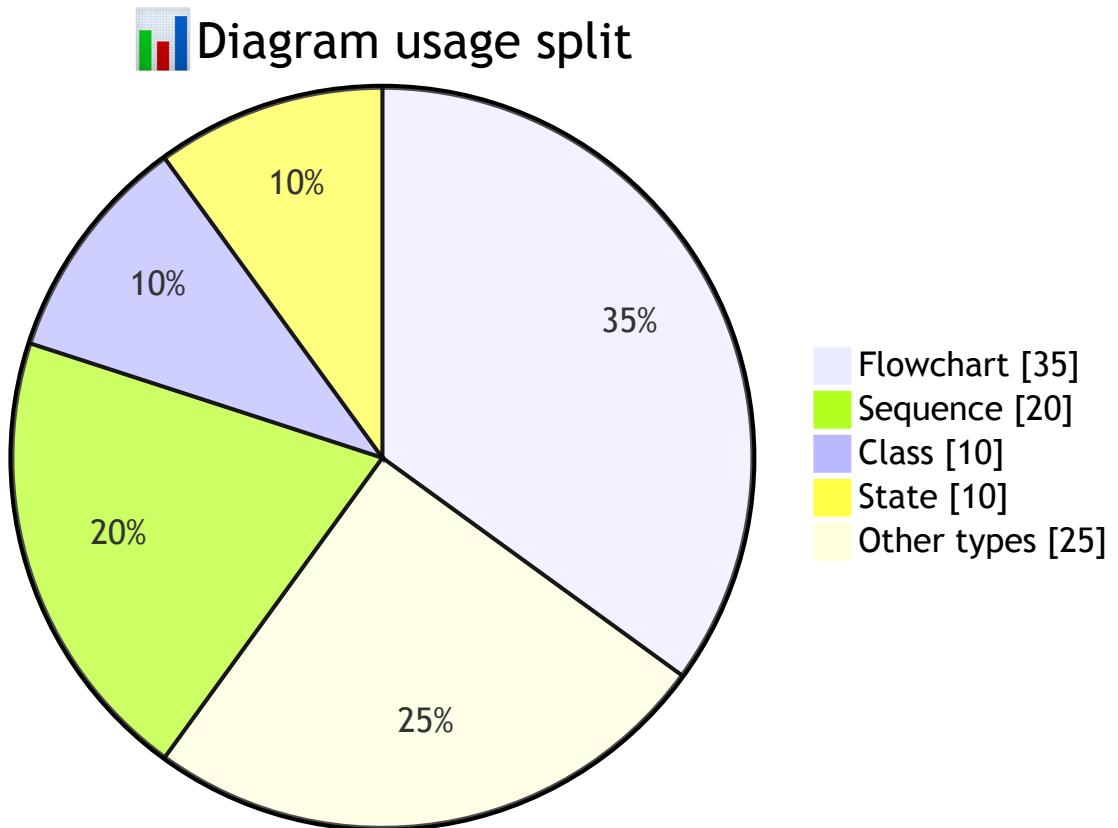
6. User Journey



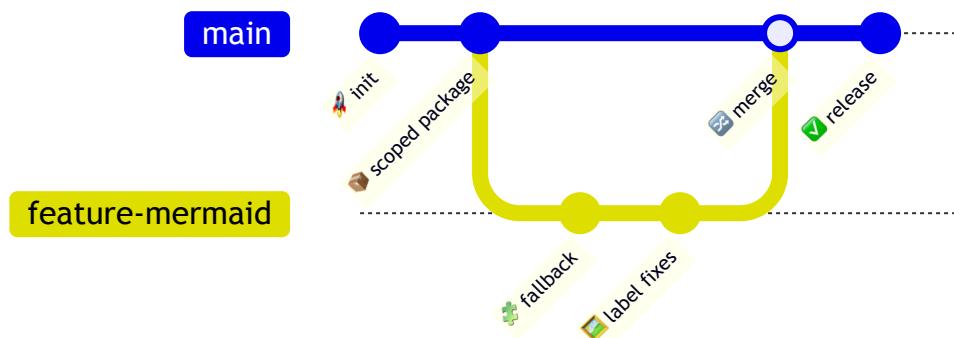
7. Gantt Chart



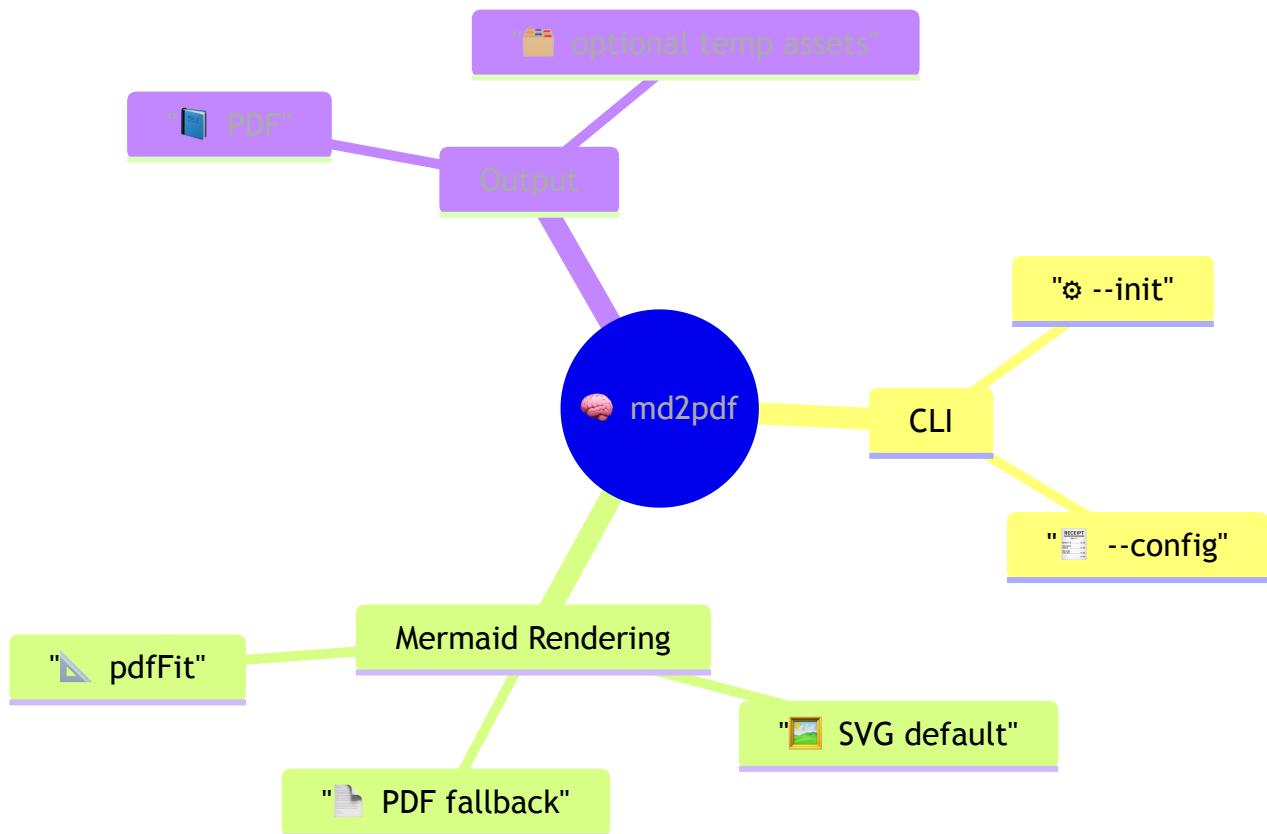
8. Pie Chart



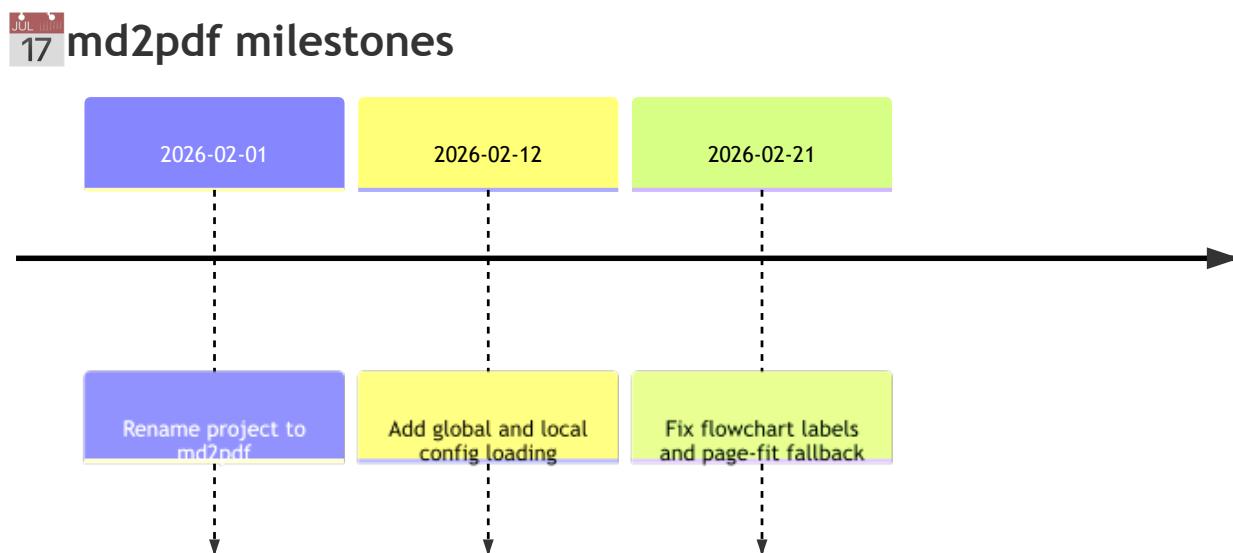
9. Git Graph



10. Mindmap

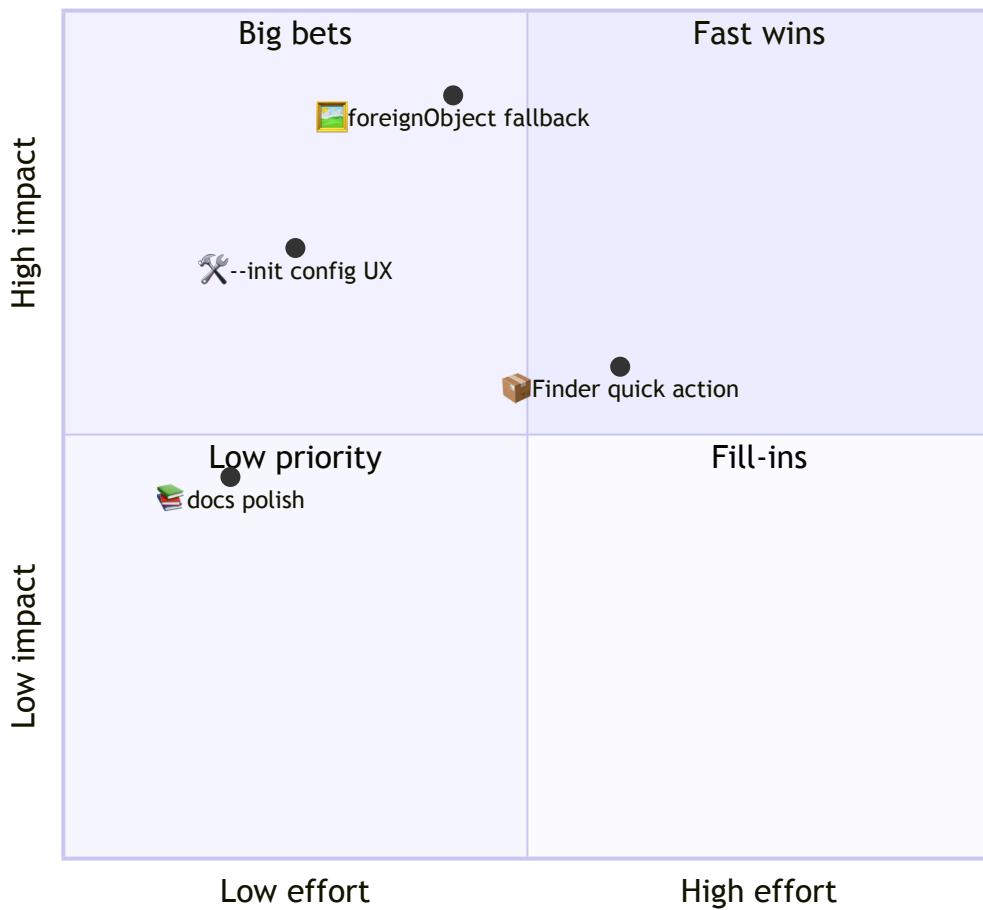


11. Timeline

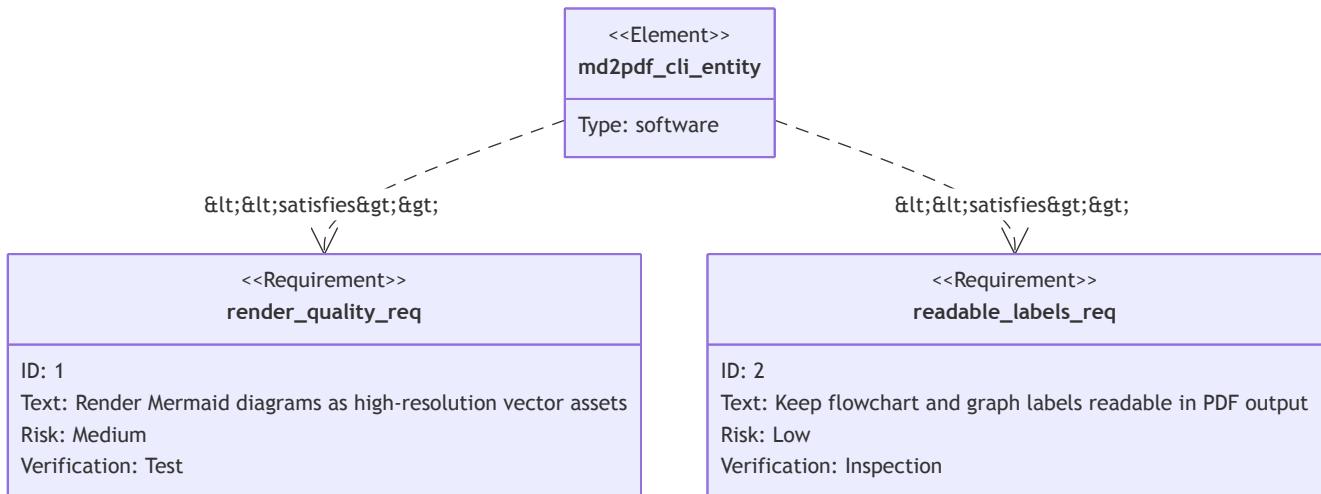


12. Quadrant Chart

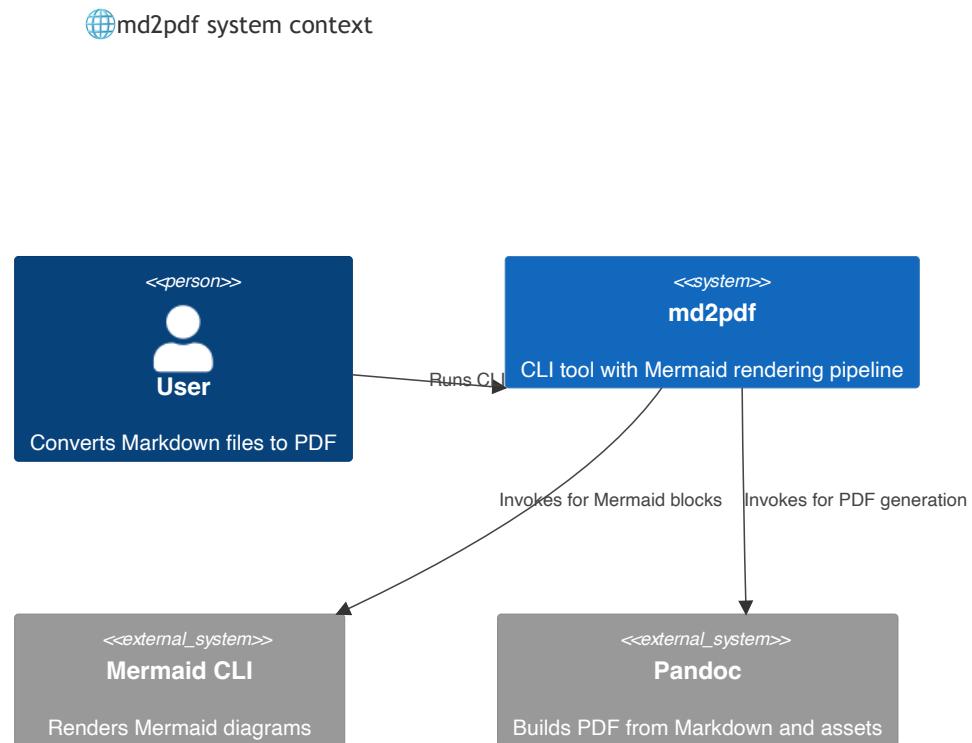
Feature prioritization



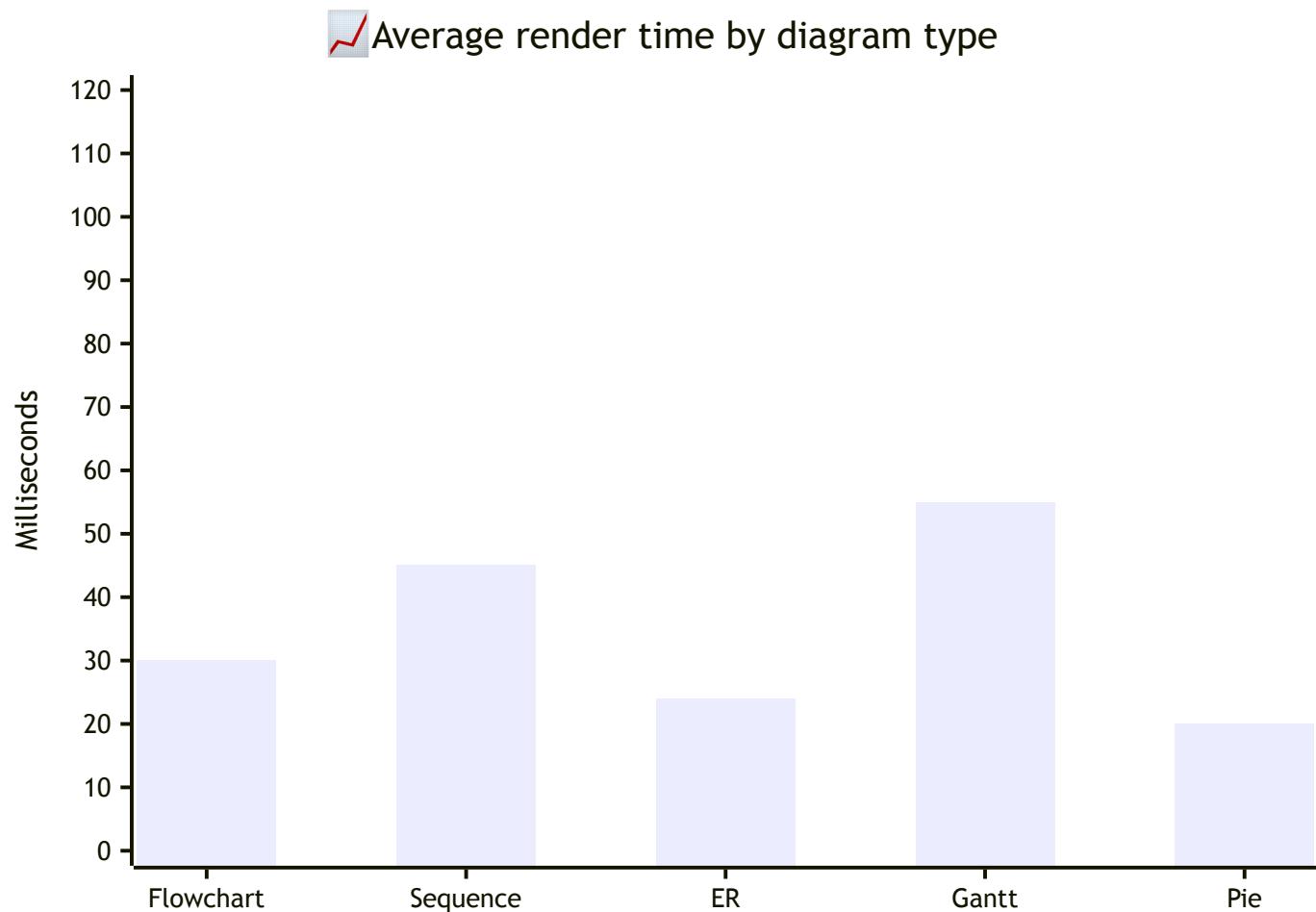
13. Requirement Diagram



14. C4 Context Diagram



15. XY Chart (beta)



16. Sankey (beta)

