Md2pdf Skill Test Document

This document tests all features of the **md2pdf** skill.

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1. Math with KaTeX

Inline math: $E = mc^2$

Block math:

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

Matrix example:

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} ax + by \\ cx + dy \end{pmatrix}$$

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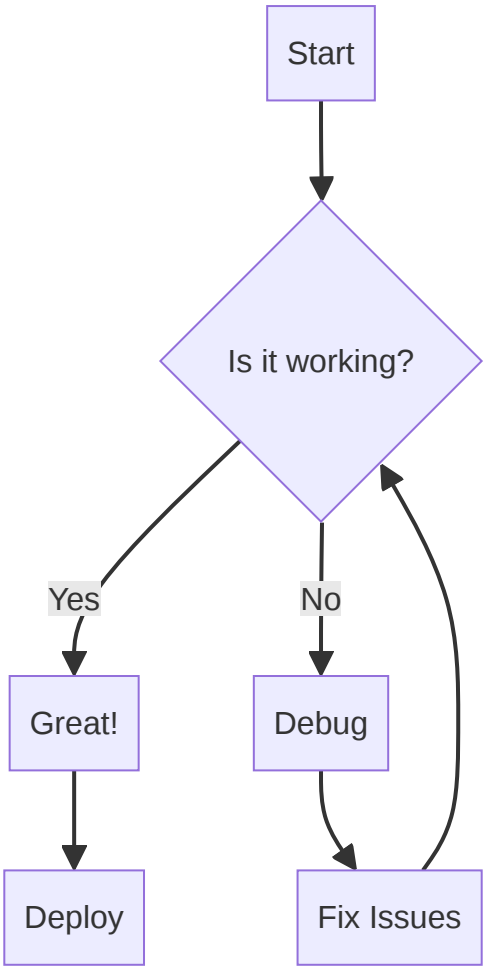
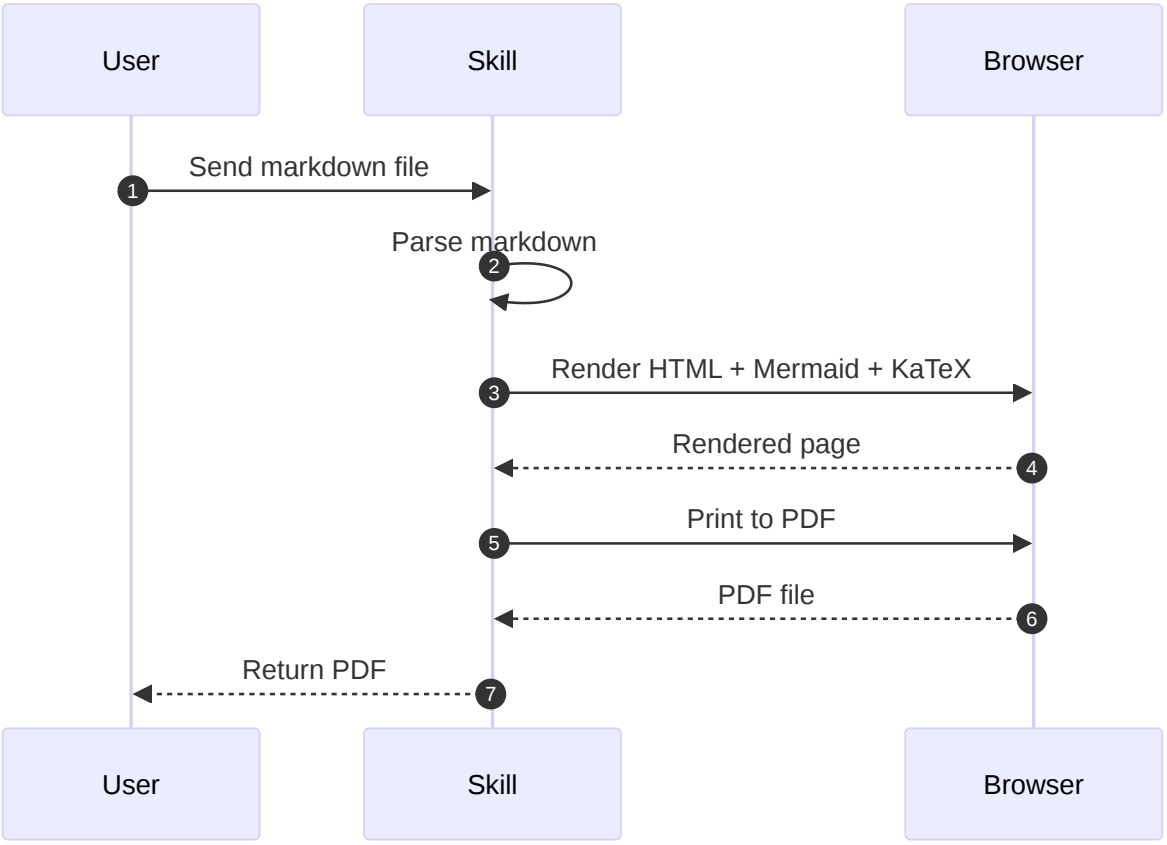
2. Mermaid Diagrams

Flowchart



Sequence Diagram



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3. Code Blocks

```
def hello_world():
    print("Hello from md2pdf!")
    return 42

# Math in comments: x^2 + y^2 = z^2
result = hello_world()
```

```
// Browser rendering with Puppeteer
const pdf = await page.pdf({
    format: 'A4',
    printBackground: true
});
```

4. Tables

Feature	Status	Notes
Markdown parsing	✅	GitHub-flavored
Mermaid diagrams	✅	Auto-rendered
KaTeX math	✅	Inline & block
Syntax highlight	✅	Code blocks
Page numbers	✅	Footer

5. Blockquotes

> *“The best way to predict the future is to invent it.” — Alan Kay*

6. Task Lists

- [x] Create skill structure
- [x] Implement markdown parsing
- [x] Add Mermaid support
- [x] Add KaTeX support
- [x] Style with CSS
- [x] Generate PDF with Puppeteer

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