Documentation

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PDF Documentation Generator

Introduction

This document demonstrates the capabilities of the PDF Documentation Generator service. It shows how Markdown content gets rendered into a professionally formatted PDF document.

Features

The PDF Documentation Generator supports a wide range of Markdown features:

Text Formatting

- **Bold text** for emphasis
- *Italic text* for slight emphasis
- ~~Strikethrough~~ for indicating removed content
- `Inline code` for technical terms

Lists

Ordered lists:

1. First item
2. Second item
3. Nested item one
4. Nested item two
5. Third item

Unordered lists: ✅

- Documentation
- PDF Generation
- Architecture Diagrams
- Embedding diagrams
- Scaling and positioning

Code Blocks

```
def generate_pdf(markdown_content, diagram_uri=None):
    """
    Generate a PDF from Markdown content.

    Args:
        markdown_content: The content to convert
        diagram_uri: Optional S3 URI to a diagram

    Returns:
        S3 URI of the generated PDF
    """
    # Convert Markdown to HTML
    html = convert_to_html(markdown_content)

    # Add diagram if provided
    if diagram_uri:
        html = embed_diagram(html, diagram_uri)

    # Generate PDF from HTML
    pdf = html_to_pdf(html)

    # Upload to S3
    s3_uri = upload_to_s3(pdf)

    return s3_uri
```

Tables

Feature	Description	Supported
Markdown	Convert Markdown to HTML	✅

Feature	Description	Supported
Diagrams	Embed architecture diagrams	✅
Tables	Format tables in the PDF	✅
Code Blocks	Syntax highlighting	✅
Math	Mathematical equations	✅

Blockquotes

> This is a blockquote.
>
> It can contain multiple paragraphs.
>
> > Nested blockquotes are also supported.

Horizontal Rule

Integration with Architecture Diagrams

The service can embed architecture diagrams created with the Minigrammer service. When a diagram S3 URI is provided, the diagram is automatically embedded in the generated PDF.

Mathematical Equations

The PDF generator supports LaTeX-style mathematical equations:

The quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$.

Einstein's famous equation: $E = mc^2$

Conclusion

This document demonstrates how the PDF Documentation Generator converts Markdown content into a well-formatted PDF document. The service is ideal for creating

technical documentation, reports, and other documents that need to be shared in PDF format.

Generated using PDF Documentation Generator