Markdown to PDF Converter

This is a demonstration of the markdown to PDF converter with support for various technical documentation features.

Features

• Mermaid diagrams for flowcharts and diagrams

• Math formulas using KaTeX

- Syntax highlighting for code blocks
- GitHub Flavored Markdown features like tables and strikethrough

Math Formulas

Here's an inline math formula: $E=mc^2$

And here's a display formula:

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

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

Formula in code-blocks:

Complex formula with matrices:

Formula in code-blocks:
$$price = \max(unitPrice, 1e18) collateralAmount = rac{nusdAmount imes 10^{decimals}}{price}$$

return fibonacci(n - 1) + fibonacci(n - 2);

middle = [x for x in arr if x == pivot]right = [x for x in arr if x > pivot]

numbers = [64, 34, 25, 12, 22, 11, 90]

Paradigm

Systems

Procedural

Multi-paradigm

Multi-paradigm

print(quick_sort(numbers))

return quick_sort(left) + middle + quick_sort(right)

function fibonacci(n) { if (n <= 1) return n;</pre>

} console.log(fibonacci(10)); // Output: 55

JavaScript

```
Python
 def quick_sort(arr):
      if len(arr) <= 1:</pre>
          return arr
      pivot = arr[len(arr) // 2]
      left = [x for x in arr if x < pivot]</pre>
```

SQL

SELECT

Example usage

```
users.name,
     COUNT(orders.id) as order_count,
     SUM(orders.total) as total_spent
 FROM users
 LEFT JOIN orders ON users.id = orders.user_id
 WHERE users.created_at >= '2023-01-01'
 GROUP BY users.id, users.name
 HAVING COUNT(orders.id) > 5
 ORDER BY total_spent DESC;
Tables
```

First Appeared

1995

1991

2010

2009

Popular Use Cases

Data science, AI, Web

Systems programming

Cloud services, APIs

Web development, Node.js

Database

Database

Rust Go

Language

JavaScript

Python

| Mermaid Diagrams | | | |
|------------------|--|-------|--|
| Flowchart | | | |
| | | Q1 1 | |
| | | Start | |

Is it working?

Sequence Diagram

User

User

Render page

main

develop

hotfix

GitHub Flavored Markdown Features

Set up project structure

Create documentation

Publish to npm

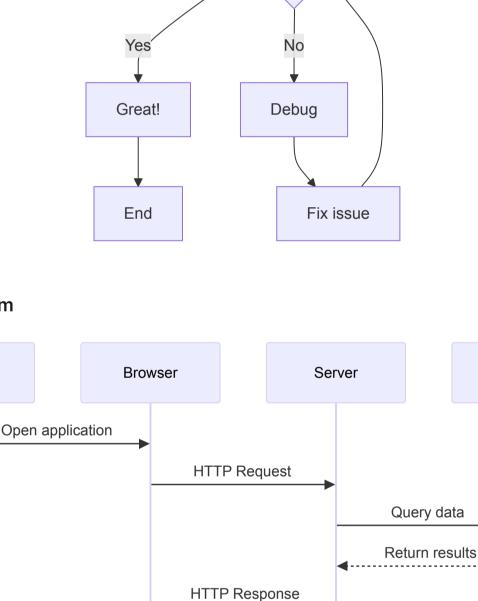
This text is strikethrough.

Implement markdown processing

Browser

Add feature B

Add feature A



Server

Git Flow Diagram

Add PDF generation Add tests

Strikethrough

Blockquotes

Task Lists

- "The best way to predict the future is to create it." Peter Drucker
- **Links and Images**

Check out the GitHub repository for more information.

Advanced Features

Nested Lists

1. First level

Second level item 1 Second level item 2 Third level item

- Another third level item 2. Another first level item
 - 1. Numbered second level 2. Another numbered item
- **Code with Line Numbers**

```
#!/bin/bash
set -e
# Install dependencies
npm install
# Build the project
npm run build
# Run tests
npm test
# Deploy to production
npm run deploy
```

This document demonstrates the various features supported by the Markdown to PDF converter. The output should maintain proper formatting, syntax highlighting, mathematical notation, and diagram rendering.