## 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

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

**Math Formulas** 

And here's a display formula:

$$\int_{-\infty}^{\infty}e^{-x^2}dx=\sqrt{\pi}$$
  $egin{pmatrix} a&b\c&d\end{pmatrix}egin{pmatrix} x\c&d\end{pmatrix}egin{pmatrix} x\c&d\end{pmatrix}=egin{pmatrix} ax+by\cx+dy\end{pmatrix}$ 

Formula in code-blocks:

Complex formula with matrices:

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

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

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

pivot = arr[len(arr) // 2]

left = [x for x in arr if x < pivot]</pre>

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

return quick\_sort(left) + middle + quick\_sort(right)

```
}
```

**JavaScript** 

```
console.log(fibonacci(10)); // Output: 55
Python
 def quick_sort(arr):
      if len(arr) <= 1:</pre>
          return arr
```

# Example usage

ORDER BY total\_spent DESC;

**Paradigm** 

Systems

Multi-paradigm

Multi-paradigm

```
numbers = [64, 34, 25, 12, 22, 11, 90]
 print(quick_sort(numbers))
SQL
 SELECT
     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
```

### Python Rust

**Tables** 

Language

JavaScript

Go	Procedural	2009	Cloud services, APIs
Mermaid Diagrams			
Flowchart			
		Start	

Is it working?

First Appeared

1995

1991

2010

Popular Use Cases

Data science, AI, Web

Systems programming

Web development, Node.js

Database

Database

Sequence Diagram

User

User

Render page

main

develop

hotfix

**GitHub Flavored Markdown Features** 

Set up project structure

Create documentation

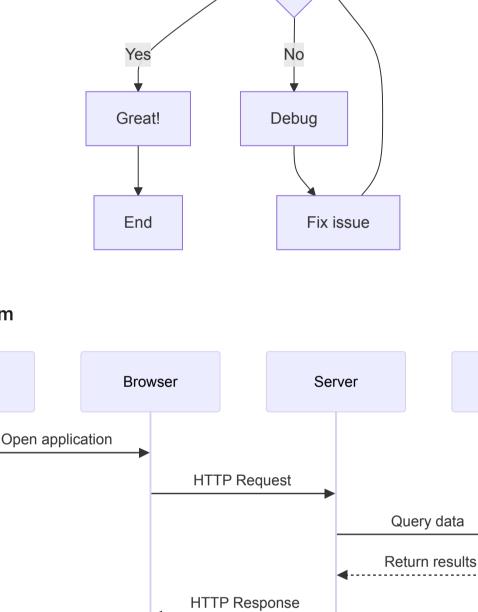
Publish to npm

This text is strikethrough.

**Browser** 

Add feature B

Add feature A



Server

**Git Flow Diagram** 

### Implement markdown processing 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**
- **Advanced Features**

**Nested Lists** 

1. First level Second level item 1 Second level item 2

Check out the <u>GitHub repository</u> for more information.

### 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.