### Markdown to PDF Converter

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

## **Features**

- Math formulas using KaTeX • Mermaid diagrams for flowcharts and diagrams
- 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:

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

Complex formula with matrices:

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

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

Formula in code-blocks:

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

### function fibonacci(n) {

if (n <= 1) return n;

return arr

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

COUNT(orders.id) as order\_count, SUM(orders.total) as total\_spent

WHERE users.created\_at >= '2023-01-01'

Systems

Procedural

GROUP BY users.id, users.name

LEFT JOIN orders ON users.id = orders.user\_id

### }

**JavaScript** 

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

```
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)
 # Example usage
 numbers = [64, 34, 25, 12, 22, 11, 90]
 print(quick_sort(numbers))
SQL
 SELECT
     users.name,
```

### FROM users

```
HAVING COUNT(orders.id) > 5
 ORDER BY total_spent DESC;
Tables
                  Paradigm
 Language
                                       First Appeared
                                                             Popular Use Cases
 JavaScript
                 Multi-paradigm
                                       1995
                                                             Web development, Node.js
 Python
                 Multi-paradigm
                                       1991
                                                             Data science, AI, Web
```

Systems programming

Cloud services, APIs

**Database** 

Database

### Go

Rust

Mermaid Diagra	ims				
Flowchart					
		S	tart		
			tor t		

Is it working?

2010

2009

**Sequence Diagram** 

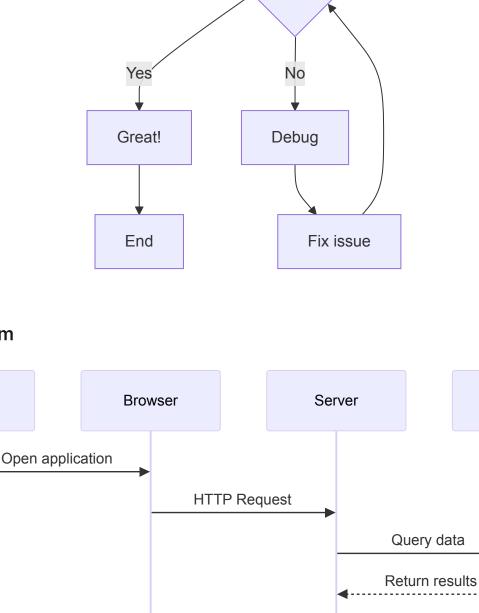
User

Render page

main

develop

**Browser** 

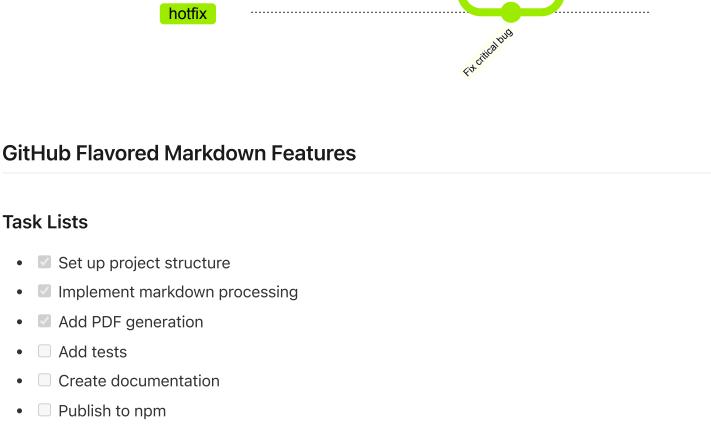


**HTTP Response** 

Server

## **Git Flow Diagram**

User



Add teature B

# - Peter Drucker

**Links and Images** 

Strikethrough

**Blockquotes** 

This text is strikethrough.

**Advanced Features** 

"The best way to predict the future is to create it."

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

#### Second level item 1 Second level item 2 Third level item

**Nested Lists** 

1. First level

```
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
```

should maintain proper formatting, syntax highlighting, mathematical notation, and diagram rendering.

This document demonstrates the various features supported by the Markdown to PDF converter. The output