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MD Preview PDF Comprehensive Test Document	Test Suite	2024-12-31	A4	top	bottom
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MD Preview PDF Comprehensive Test Document

This document tests all markdown features supported by the MD Preview PDF converter.

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1. Basic Typography

1.1 Text Formatting

This is a paragraph with **bold text**, *italic text*, **bold and italic**, and ~~strikethrough text~~.

You can also use `inline code` for technical terms.

This is a sentence with a footnote^[1].

1.2 Headings

The document supports all heading levels from H1 to H6:

Heading 1

Heading 2

Heading 3

Heading 4

Heading 5

Heading 6

2. Lists

2.1 Unordered Lists

- Item 1
- Item 2
 - Nested item 2.1
 - Nested item 2.2
 - Deep nested item
- Item 3

2.2 Ordered Lists

1. First item
2. Second item
 - i. Nested ordered item
 - ii. Another nested item
3. Third item

2.3 Task Lists

- Completed task
 - Another completed task
 - Incomplete task
 - Another incomplete task
-

3. Code Blocks

3.1 JavaScript

```
// JavaScript example with syntax highlighting
class Calculator {
    constructor() {
        this.result = 0;
    }

    add(num) {
        this.result += num;
        return this;
    }

    subtract(num) {
        this.result -= num;
        return this;
    }

    multiply(num) {
        this.result *= num;
        return this;
    }

    getResult() {
        return this.result;
    }
}

const calc = new Calculator();
console.log(calc.add(10).multiply(2).subtract(5).getResult()); // 15
```

3.2 Python

```
# Python example with syntax highlighting
from typing import List, Optional
from dataclasses import dataclass

@dataclass
class Person:
    name: str
    age: int
    email: Optional[str] = None

def greet_people(people: List[Person]) -> None:
    """Greet a list of people."""
    for person in people:
        greeting = f"Hello, {person.name}!"
        if person.email:
            greeting += f" Your email is {person.email}"
    print(greeting)

# Usage
people = [
    Person("Alice", 30, "alice@example.com"),
    Person("Bob", 25),
]
greet_people(people)
```

3.3 TypeScript

```
// TypeScript example
interface User {
  id: number;
  name: string;
  email: string;
  role: 'admin' | 'user' | 'guest';
}

async function fetchUser(id: number): Promise<User> {
  const response = await fetch(`api/users/${id}`);
  if (!response.ok) {
    throw new Error(`Failed to fetch user: ${response.statusText}`);
  }
  return response.json();
}

// Generic function
function filterByProperty<T, K extends keyof T>(
  items: T[],
  property: K,
  value: T[K]
): T[] {
  return items.filter(item => item[property] === value);
}
```

3.4 SQL

```
-- SQL example
SELECT
  u.id,
  u.name,
  u.email,
  COUNT(o.id) AS order_count,
  SUM(o.total) AS total_spent
FROM users u
LEFT JOIN orders o ON u.id = o.user_id
WHERE u.created_at >= '2024-01-01'
GROUP BY u.id, u.name, u.email
HAVING COUNT(o.id) > 5
ORDER BY total_spent DESC
LIMIT 10;
```

3.5 Shell/Bash

```
#!/bin/bash
# Shell script example

# Variables
PROJECT_NAME="md-preview-pdf"
VERSION="1.0.0"

# Functions
log() {
    echo "[$(date '+%Y-%m-%d %H:%M:%S')] $1"
}

# Main script
log "Starting $PROJECT_NAME v$VERSION"

# Check if npm is installed
if ! command -v npm &> /dev/null; then
    log "ERROR: npm is not installed"
    exit 1
fi

# Install dependencies
npm install

# Build project
npm run build

log "Build complete!"
```

4. Tables

4.1 Simple Table

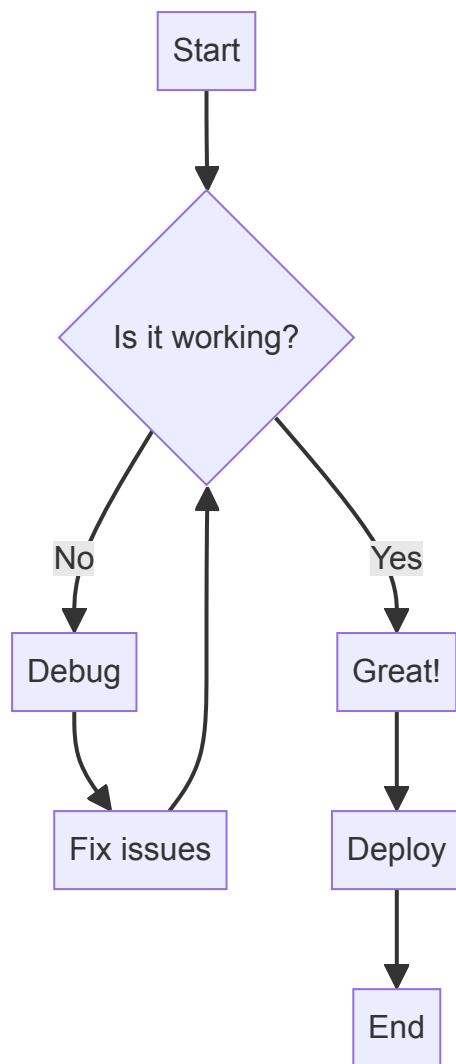
Feature	Status	Notes
Markdown parsing	✓	Full GFM support
Syntax highlighting	✓	150+ languages
Mermaid diagrams	✓	All diagram types
Math equations	✓	KaTeX
Custom themes	✓	GitHub, VS Code

4.2 Aligned Table

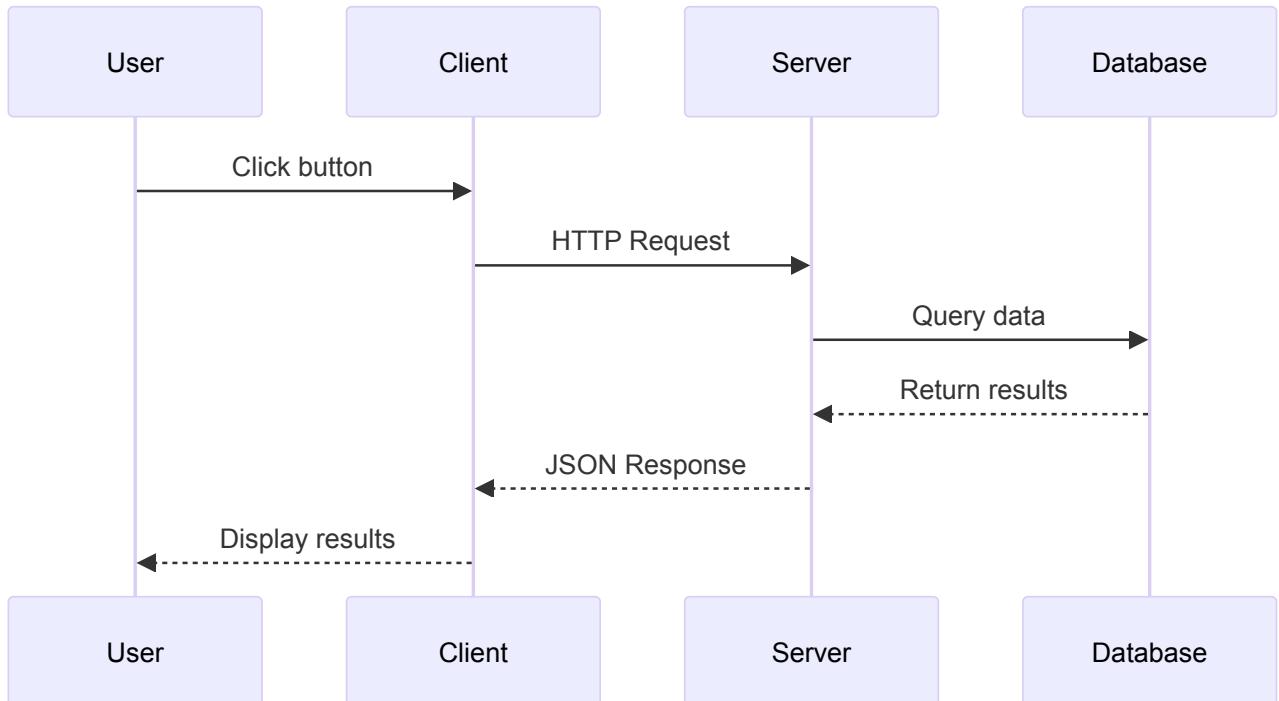
Left Aligned	Center Aligned	Right Aligned
Row 1 Col 1	Row 1 Col 2	Row 1 Col 3
Row 2 Col 1	Row 2 Col 2	Row 2 Col 3
Row 3 Col 1	Row 3 Col 2	Row 3 Col 3

5. Mermaid Diagrams

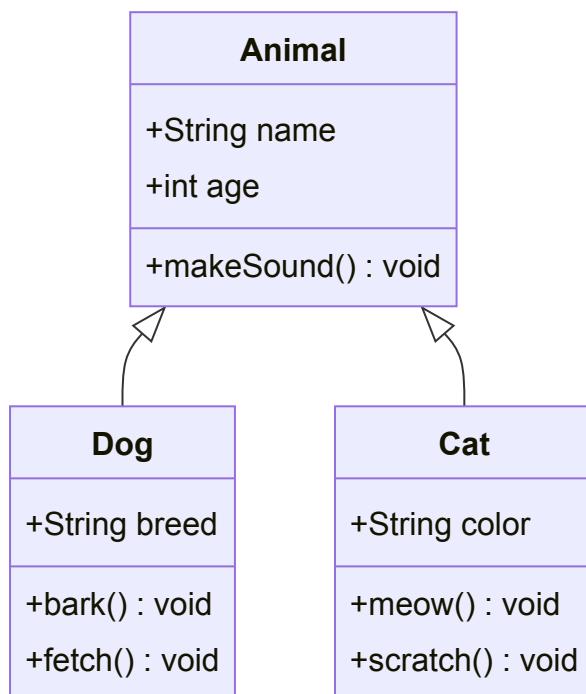
5.1 Flowchart



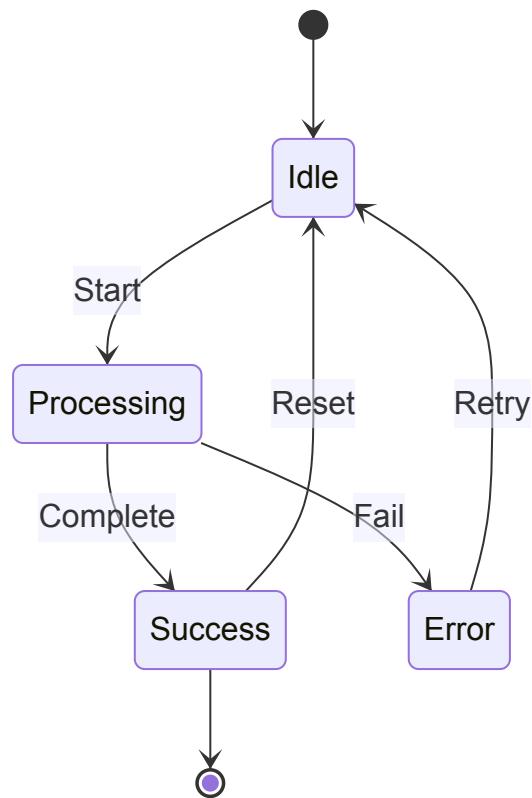
5.2 Sequence Diagram



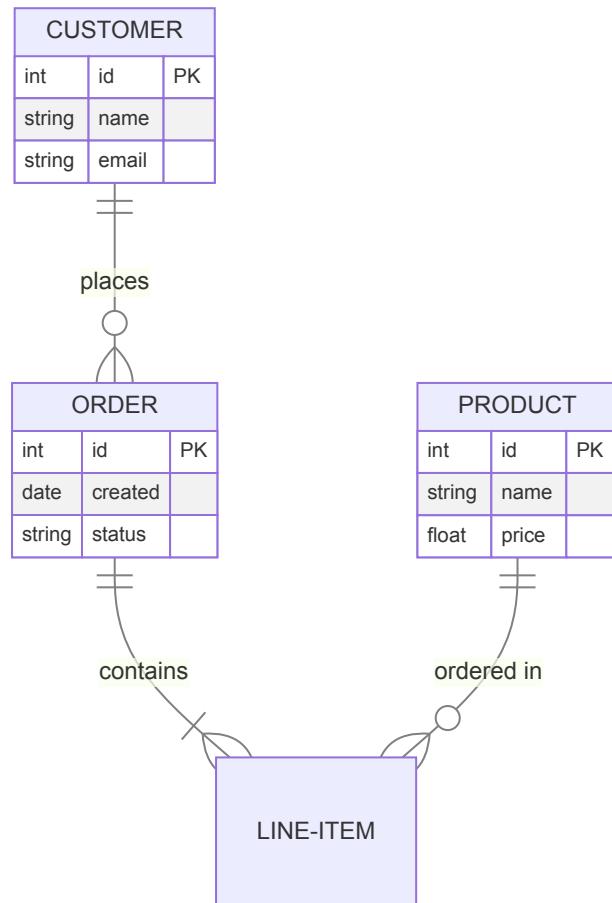
5.3 Class Diagram



5.4 State Diagram

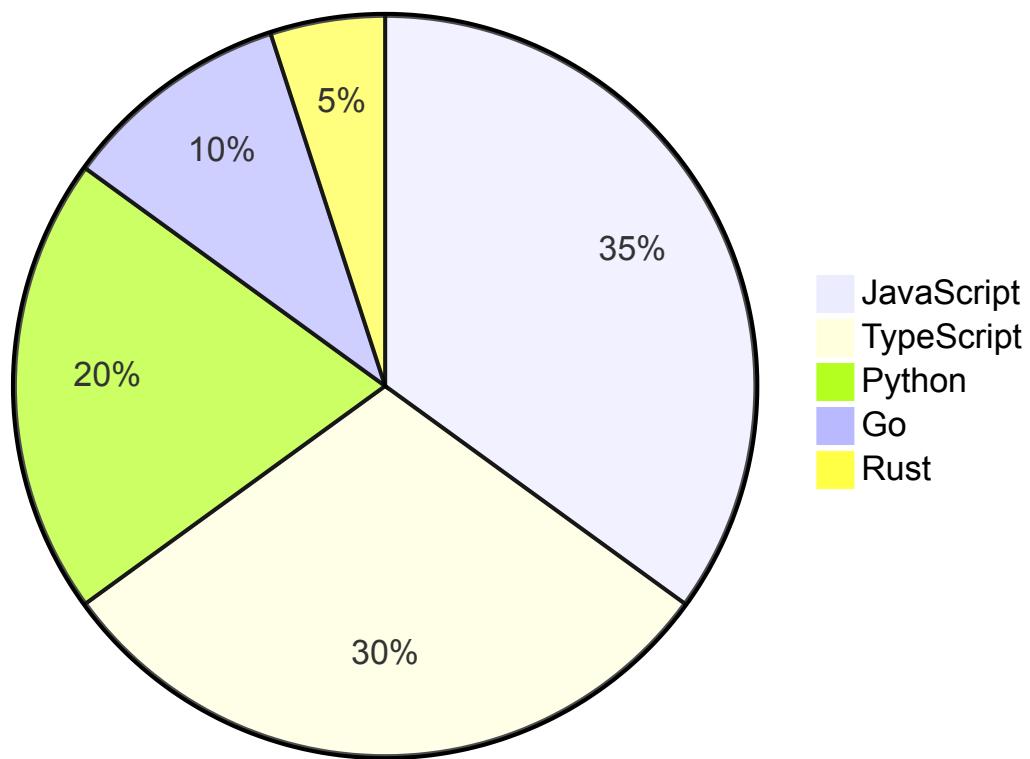


5.5 Entity Relationship Diagram

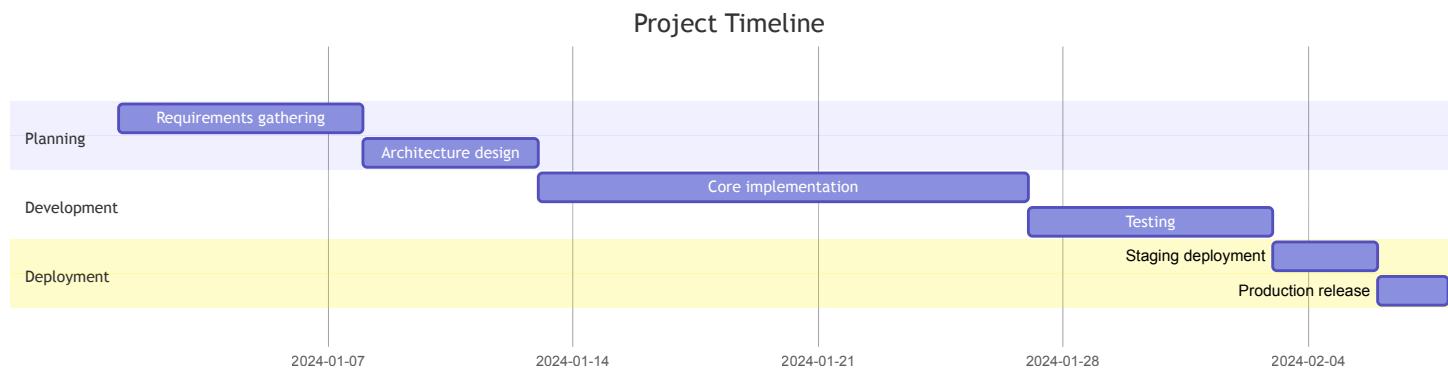


5.6 Pie Chart

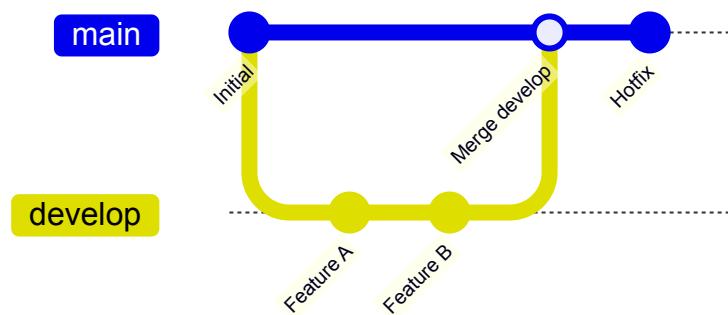
Programming Languages Used



5.7 Gantt Chart



5.8 Git Graph



6. Math Equations (KaTeX)

6.1 Inline Math

The famous equation $E = mc^2$ demonstrates the relationship between mass and energy.

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

6.2 Block Math

The integral of a function:

$$\int_a^b f(x) dx = F(b) - F(a)$$

Matrix notation:

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

Sum notation:

$$\sum_{i=1}^n i = \frac{n(n+1)}{2}$$

7. Blockquotes

This is a simple blockquote.

Multi-paragraph blockquote:

This is the first paragraph.

This is the second paragraph with *italic* and **bold** text.

Nested blockquotes:

This is nested inside.

And this is even deeper.

8. Links and Images

8.1 Links

- External link
- Link with title
- <https://example.com> (autolink)
- Email: test@example.com

8.2 Images

Images can be included with captions:



9. Custom Containers

Pro Tip

This is a tip container. Use it for helpful hints and best practices.

Warning

This is a warning container. Use it to alert users about potential issues.

Danger

This is a danger container. Use it for critical warnings.

Information

This is an info container. Use it for additional information.

Note

This is a note container. Use it for side notes.

► Click to expand

10. Horizontal Rules

11. Special Characters and Emoji

11.1 Emoji

Emoji support using shortcodes:

- 😊 Happy
- 🚀 Launch
- ⭐ Star
- ❤️ Love
- 👍 Approved
- ⚠️ Warning
- 💡 Idea
- 📝 Note

11.2 HTML Entities

- Copyright: ©
 - Registered: ®
 - Trademark: ™
 - Em dash: —
 - En dash: –
 - Less than: <
 - Greater than: >
 - Ampersand: &
-

12. Keyboard Keys

Press **Ctrl** + **C** to copy.

Press **Ctrl** + **V** to paste.

Press **Cmd** + **Shift** + **P** to open command palette.

13. Subscript and Superscript

- Water formula: H₂O
 - E = mc²
 - CO₂ emissions
-

14. Abbreviations

The HTML specification is maintained by the W3C.

*[HTML]: Hyper Text Markup Language

*[W3C]: World Wide Web Consortium

15. Mixed Content Example

Here's a complex example combining multiple features:

Important Note: When using the `Calculator` class below, make sure to handle the following:

1. Initialize properly
2. Chain methods correctly
3. Handle errors

Warning

Division by zero will throw an error!

```
class AdvancedCalculator extends Calculator {  
    divide(num) {  
        if (num === 0) {  
            throw new Error('Division by zero');  
        }  
        this.result /= num;  
        return this;  
    }  
}
```

The result can be expressed as: $result = \frac{a+b}{c}$

Conclusion

This test document covers:

Category	Features Tested
Typography	Headers, bold, italic, strikethrough
Lists	Ordered, unordered, task lists
Code	Syntax highlighting for multiple languages
Tables	Simple and aligned tables
Diagrams	8 types of Mermaid diagrams
Math	Inline and block KaTeX equations
Other	Blockquotes, containers, emoji, etc.

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1. This is the footnote content. ↵