

Enhanced PDF Documentation System

Professional PDF Generation with Branding

The PDF documentation system has been completely overhauled to provide professional, branded PDFs with comprehensive customization options.

New Features

Professional Branding

- **Company Information:** Name, logo, website, copyright
- **Version Control:** Automatic versioning and date stamping
- **Visual Identity:** Custom colors and typography
- **Professional Headers:** Dynamic headers with document info
- **Styled Footers:** Page numbers and company details

Advanced Theming

- **Color Schemes:** Primary, secondary, accent colors
- **Typography:** Custom fonts for headers, body, code
- **Layout Control:** Margins, page sizes, spacing
- **Style Variants:** Modern, classic, minimal themes
- **Responsive Design:** Optimized for both screen and print

Rich Content Features

- **Auto Table of Contents:** Generated from document headings
- **Page Breaks:** Smart section separation
- **Cross-References:** Clickable links and bookmarks
- **Code Highlighting:** GitHub-style syntax highlighting
- **Watermark Support:** Optional text watermarks
- **Draft Mode:** Visual draft indicators

Configuration System

- **JSON Configuration:** config/pdf-theme.json
 - **CLI Configurator:** Interactive theme setup
 - **Composer Integration:** Easy command access
 - **Hot Reloading:** Live configuration updates
 - **Validation:** Input validation and error handling
-

Usage

Basic PDF Generation

```
# Generate PDFs with current theme  
composer run docs-pdf
```

Generate with verbose output

```
composer run docs-pdf --verbose
```

Theme Configuration

```
# Interactive theme configurator  
composer run docs-theme-interactive
```

Quick brand name change

```
composer run docs-theme "My Company"
```

View current configuration

```
php scripts/configure-pdf-theme.php
```

Choose option 6 (Show Configuration)

Custom Generation Options

```
# Force HTML generation (no PDF tools)
php scripts/generate-docs-pdf.php --force-html
```

Custom time window (last 6 hours)

```
php scripts/generate-docs-pdf.php --age 6
```

Clean up intermediate files

```
php scripts/generate-docs-pdf.php --cleanup-html
```

Full verbose output

```
php scripts/generate-docs-pdf.php --verbose
```

Configuration Structure

Theme Configuration File (config/pdf-theme.json)

```
{  
  "brand": {  
    "name": "HRM Laravel Base",  
    "tagline": "Enterprise ERP System",  
    "logo": "",  
    "website": "https://hrm-laravel-base.example.com",  
    "company": "HRM Solutions",  
    "version": "2.0.0",  
    "copyright": "© 2025 HRM Solutions. All rights reserved."  
  },  
  "theme": {  
    "primary_color": "#2563eb",  
    "secondary_color": "#64748b",  
    "accent_color": "#3b82f6",  
    "success_color": "#10b981",  
    "warning_color": "#f59e0b",  
    "error_color": "#ef4444",  
    "background_color": "#ffffff",  
    "text_color": "#1f2937",  
    "border_color": "#e5e7eb",  
    "header_font": "Arial, sans-serif",  
    "body_font": "Georgia, serif",  
    "code_font": "Courier New, monospace"  
  },  
  "layout": {  
    "page_size": "A4",  
    "margin_top": "20mm",  
    "margin_bottom": "20mm",  
    "margin_left": "20mm",  
    "margin_right": "20mm",  
    "font_size": "11pt",  
    "line_height": "1.6",  
    "header_height": "15mm",  
    "footer_height": "15mm"  
  },  
  "features": {  
    "auto_toc": true,  
    "page_numbers": true,  
    "section_breaks": true,  
    "watermark": false,  
    "bookmarks": true,  
    "links": true  
  },  
  "custom": {  
    "watermark_text": "",  
    "confidential_text": "",  
    "draft_mode": false,  
    "print_date": true,  
    "author_info": true  
  }  
}
```

Output Examples

Professional PDF Features

- **Dynamic Headers:** Document title, version, date, page numbers
- **Styled Footers:** Company info, website, copyright
- **Table of Contents:** Auto-generated with page numbers
- **Consistent Branding:** Logo and colors throughout
- **Professional Typography:** Optimized fonts for readability
- **Smart Layouts:** Proper margins and spacing
- **Visual Hierarchy:** Clear heading structure
- **Code Blocks:** Syntax highlighted with proper styling
- **Tables:** Professional bordered tables
- **Links:** Clickable cross-references

Sample PDF Layout

HRM Laravel Base Enterprise ERP System v2.0.0 2025-11-20 | Page 1 |

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Introduction |

Welcome to the HRM Laravel Base system... |

HRM Solutions | <https://hrm-laravel-base.example.com> |

🛠 Customization Guide

Quick Branding

```
# Change company name  
composer run docs-theme "My Company Name"
```

This updates config/pdf-theme.json:

```
">"brand": { "name": "My Company Name", ... }
```

Color Customization

```
# Launch interactive configurator  
composer run docs-theme-interactive
```

Choose option 2 (Theme Colors)

Follow prompts to customize colors

Layout Adjustments

```
# Edit configuration directly  
nano config/pdf-theme.json
```

Or use interactive configurator

```
composer run docs-theme-interactive
```

Choose option 3 (Layout Settings)

Benefits Over Previous System

Before (Basic PDFs)

- ✗ No branding or company information
- ✗ Basic black and white styling
- ✗ No headers or footers
- ✗ No table of contents
- ✗ Inconsistent formatting
- ✗ No customization options

After (Professional PDFs)

- Full company branding and identity
 - Professional color schemes and typography
 - Dynamic headers with document metadata
 - Auto-generated table of contents
 - Consistent, professional formatting
 - Complete customization control
 - Interactive configuration system
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Technical Implementation

Architecture

- **PdfThemeManager:** Core theme management class
- **Configuration System:** JSON-based with validation
- **CLI Integration:** Composer scripts for easy access
- **Template Engine:** Dynamic HTML generation with themes
- **PDF Processing:** Enhanced pandoc/wkhtmltopdf integration

Key Classes

- `PdfThemeManager` : Theme configuration and CSS generation
- `ThemeConfigurator` : Interactive CLI configuration
- Enhanced `DocumentationGenerator` : Integrated theme support

File Structure

```
config/
    ├── pdf-theme.json      # Main theme configuration
app/Services/
    ├── PdfThemeManager.php # Theme management class
scripts/
    ├── generate-docs-pdf.php # Enhanced generator
    └── configure-pdf-theme.php # Interactive configurator
```

Summary

The enhanced PDF documentation system provides:

1. **Professional Branding** - Complete company identity
2. **Advanced Theming** - Customizable colors and styles
3. **Rich Features** - TOC, headers, footers, watermarks
4. **Easy Configuration** - JSON config + CLI tools
5. **Developer Friendly** - Extensible and maintainable
6. **Professional Output** - Print-ready PDFs with proper formatting

Result: Documentation that looks like it came from a professional design team, not an auto-generat

*Enhanced PDF System Implementation Complete
Professional Branding and Theming Active
Ready for Production Documentation*