

# 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		Page 1
Enterprise ERP System	v2.0.0	2025-11-20
🔗 Table of Contents		
1. Introduction .....	1	
2. Architecture .....	3	
3. Features .....	5	
# Introduction		
Welcome to the HRM Laravel Base system...		
HRM Solutions   <a href="https://hrm-laravel-base.example.com">https://hrm-laravel-base.example.com</a>		

## 🔧 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

---

## 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*

---